

Supplementary Materials for

Assigning significance in label-free quantitative proteomics to include single-peptide-hit proteins with low replicates

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Description of the Supplementary Materials

The Supplementary Materials contains three major parts as outlined in the Table of Contents.

- Part I contains the web address to download the raw data of the 20 LC/MS runs for the pH 5 (S_p) and pH 7 (R_p) samples fractionated with SDS/PAGE gel separation. Descriptions for the data are provided.
- Part II contains the details of PLGEM-STN noise modeling, the use of the combination of MPSP with the PLGEM-STN or the fold-change method, and the list of the differentially regulated proteins selected by the combination of MPSP with PLGEM-STN and fold-change methods.
- Part III contains the lists of peptides and proteins quantified from the 20 LC/MS runs of the SDS/PAGE gel-fractionated S_p and R_p samples as described in part I.

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PART I. Downloadable LC/MS raw data files

The raw LC/MS data associated with this manuscript may be downloaded from the ProteomeCommons.org Tranche network using the following hash:

xPDQl5X75crsPyDibct4onLk9wYo04dJerHJbnoFM9nSHEy4ZJw+TTg6DwtdSmHxNoDoJk3e
kX4HADPJYFiJvGNuXQMAAAAAAACTA==

The above address contains the raw data of the 20 LC/MS runs for the pH 5 (S_p) and pH 7 (R_p) samples fractionated with SDS/PAGE gel separation. The 20 RAW files and one Excel spreadsheet were zipped into one file. The Excel spreadsheet lists the 20 RAW file names, the corresponding samples, 1D SDS/PAGE gel fractions, and LC/MS injections performed for each fraction, as following.

LC/MS injection	LC/MS data file name	Sample	Gel fraction
1	J037ID04	pooled pH7 (R_p)	1
2	J037ID05		1
3	J037ID09		2
4	J037ID10		2
5	J037ID13		3
6	J037ID14		3
7	J037ID17		4
8	J037ID18		4
9	J037ID21		5
10	J037ID22		5
11	J037ID42	pooled pH5 (S_p)	1
12	J037ID43		1
13	J037ID47		2
14	J037ID48		2
15	J037ID52		3
16	J037ID53		3
17	J037ID56		4
18	J037ID57		4
19	J037ID61		5
20	J037ID62		5

PART II. Details of PLGEM-STN-MPSP and fold-change-MPSP analyses

Scheme S1. Major steps in PLGEM-STN

These steps used the algorithm and followed the procedures described by Pavelka et al. (*BMC Bioinformatics* **2004**, 5, 203).

Step 1: For the 1032 proteins, the measurement noise was fit with the PLGEM by using the four A_{PRO} quantitation categories including $cS_{P,1}$, $cS_{P,2}$, $cR_{P,1}$, and $cR_{P,2}$ (Table 1). The PLGEM fitting generated the following error model

$$\ln(STD) = 0.746 \ln(\bar{A}_C) - 0.776 + \varepsilon \quad (1)$$

where STD and \bar{A}_C respectively were the standard deviation and mean of the A_{PRO} values of $cS_{P,1}$, $cS_{P,2}$, $cR_{P,1}$, and $cR_{P,2}$. ε was the error term. The PLGEM fitting was performed with 100 partitions and a 0.5 modeling quantile. The fitting had an R^2 of 0.97 and the distribution of the model residuals ε followed a normal distribution as expected (Figure S1).

Step 2: For each protein, the 4128 A_{PRO} values of $cS_{P,1}$, $cS_{P,2}$, $cR_{P,1}$, and $cR_{P,2}$ were re-sampled with replacement for 500 iterations to calculate the null distribution of the PLGEM-STN statistic with the fitted PLGEM parameters from Equation (1). By pooling the statistics from the 500 iterations for the 1032 proteins, a null distribution with 51,600 PLGEM-STN statistics were generated. From the null distribution, STN thresholds were determined at a specific confidence level. A confidence level was a rough estimate of the false positive rate. For example, at a confidence level of 0.01, we would expect approximately 10 false positives from the 1032 proteins.

Step 3: The observed PLGEM-STN statistics were calculated for the four permuted pairings among $cS_{P,1}$, $cS_{P,2}$, $cR_{P,1}$, and $cR_{P,2}$ i.e., (I) $cS_{P,1}/cR_{P,1}$, (II) $cS_{P,1}/cR_{P,2}$, (III) $cS_{P,2}/cR_{P,1}$, and (IV) $cS_{P,2}/cR_{P,2}$. Similarly, the observed PLGEM-STN statistics were calculated for the four permuted sample pairings of measurements among $S_{P,1}$, $S_{P,2}$, $R_{P,1}$, and $R_{P,2}$ i.e., (I) $S_{P,1}/R_{P,1}$, (II) $S_{P,1}/R_{P,2}$, (III) $S_{P,2}/R_{P,1}$, and (IV) $S_{P,2}/R_{P,2}$ (see Table 2 in main text).

Step 4: Differentially expressed proteins were selected by choosing a confidence level (**Figure S2**). At a confidence level, a set pf STN thresholds were selected. The STN thresholds consisted of a negative threshold for down-regulated proteins and a positive threshold for up-regulated proteins. Based on the assessment of false discovery rates, two confidence levels were selected (see Table 2). At the confidence level of 0.002, the STN thresholds (-4.47, 4.58) result in two false positives in the sample pair cS_P/cR_P with 44 positives in the sample pair S_P/R_P when the MPSP rule was applied. At the confidence level of 0.01, the STN thresholds (-2.74, 2.79) result in 13 false positives in the sample pair cS_P/cR_P with 101 positives in the sample pairs S_P/R_P when the MPSP rule was applied. Coincidentally, with the combination with the MPSP rule, the false positive rates approximated the STN confidence levels.

Figure S1. Residual analysis of the PLGEM fitting

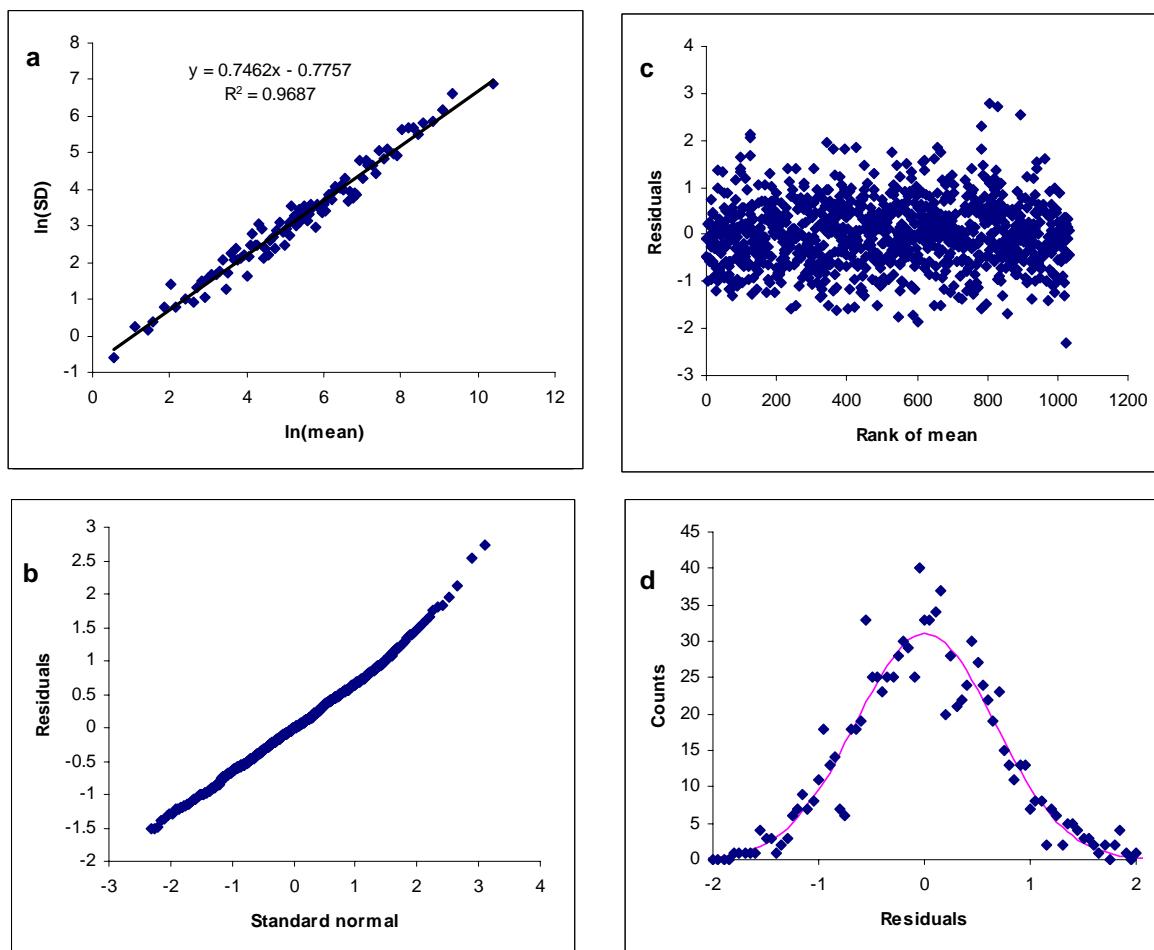


Figure S2. The STN upper and lower thresholds at different confidence levels.

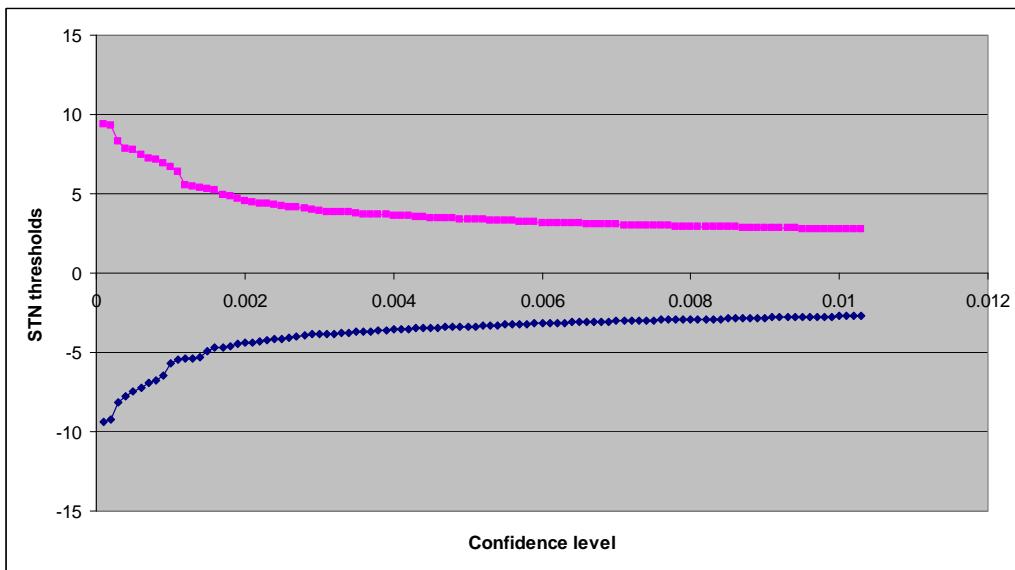


Figure S3. ROC analysis of the fold-change approach with (pink curves) and without (blue curves) the combination with MPSP.

Left panel: ROC curves. The insert shows the region with low number of false positives.

Right panel: false discovery rate at different fold changes.

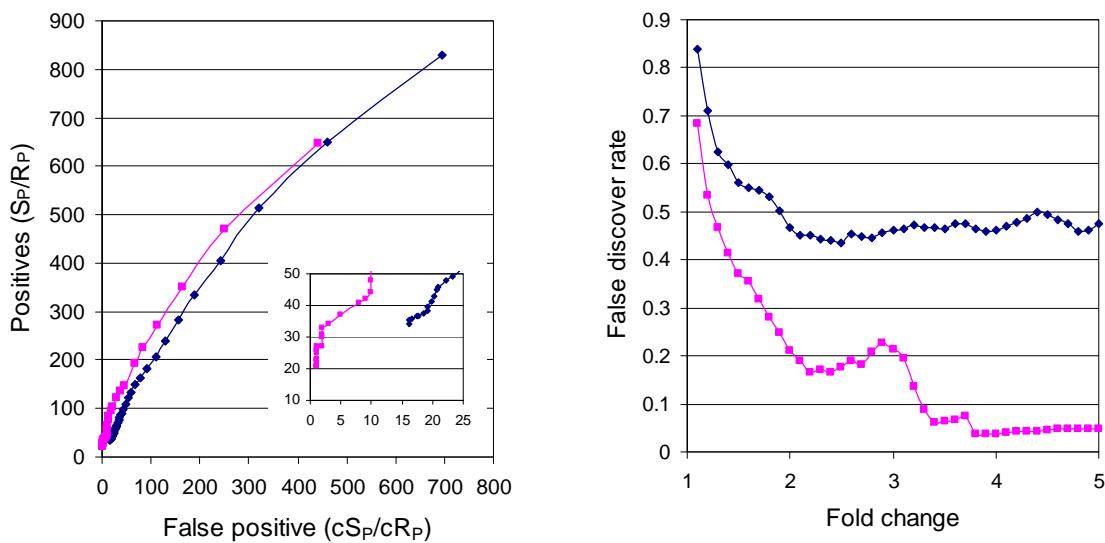


Table S1. Numbers of differentially regulated proteins selected with PLGEM-STN alone or in combination with MPSP.^a

PLGEM-STN confidence level	FP, P, and FDR	PLGEM-STN				PLGEM-STN- MPSP	
		Permuted sample pairings					
		I	II	III	IV		
0.01	FP (cS _P /cR _P)	31	68	22	46	42	13
	P (S _P /R _P)	141	155	134	148	145	101
	FDR	0.22	0.44	0.16	0.31	0.29	0.13
0.002	FP (cS _P /cR _P)	6	15	3	9	8	2
	P (S _P /R _P)	47	50	46	51	49	44
	FDR	0.13	0.30	0.07	0.18	0.16	0.05

^a False positives (FP) were selected from sample pair cS_P/cR_P. Positives (P) were selected from sample pair S_P/R_P. False discovery rate (FDR) was FP/P. The four permuted sample pairings (I-IV) were generated from the four LC/MS injections for a sample pair. See text.

Table S2. The 26 and 44 differentially regulated proteins identified at a false discovery rate of 0.05 by 4-fold-change-MPSP and PLGEM-STN-MPSP respectively.

Index	Protein locus	Approach	PCS counts	Average A _{PRO}	Fold-change
1	MSMEG_1683	4-fold-change-MPSP	1	0.3	0.02
2	MSMEG_1143	4-fold-change-MPSP	1	0.4	40.73
3	MSMEG_4888	4-fold-change-MPSP	1	1	0.08
4	MSMEG_5244	4-fold-change-MPSP	1	2	3.16
5	MSMEG_1605	4-fold-change-MPSP	1	3	0.01
6	MSMEG_3710	4-fold-change-MPSP	1	4	5.61
7	MSMEG_4075	4-fold-change-MPSP	1	7	0.17
8	MSMEG_6210	4-fold-change-MPSP	1	12	0.16
9	MSMEG_4454	4-fold-change-MPSP	1	14	14.42
10	MSMEG_2116	4-fold-change-MPSP	2	6	0.20
11	MSMEG_1052	4-fold-change-MPSP	2	15	0.08
12	MSMEG_1888	both	1	18	74.03

13	MSMEG_3932	both	1	86	13.19
14	MSMEG_0067	both	1	102	0.17
15	MSMEG_1475	both	2	132	4.49
16	MSMEG_5136	both	2	166	5.85
17	MSMEG2164	both	3	70	91.81
18	MSMEG_5245	both	3	313	6.84
19	MSMEG_3945	both	5	228	4.71
20	MSMEG_5246	both	5	1114	6.89
21	MSMEG_5739	both	6	86	6.24
22	MSMEG_3962	both	8	1770	0.18
23	MSMEG_1037	both	8	6326	6.87
24	MSMEG_1682	both	11	1669	0.24
25	MSMEG_6454	both	12	2064	5.80
26	MSMEG_2956	both	19	513	10.63
27	MSMEG_5243	PLGEM-STN-MPSP	1	168	4.07
28	MSMEG_6097	PLGEM-STN-MPSP	2	1940	0.35
29	MSMEG_0969	PLGEM-STN-MPSP	3	509	2.85
30	MSMEG_3058	PLGEM-STN-MPSP	4	379	0.33
31	MSMEG_5225	PLGEM-STN-MPSP	4	479	0.34
32	MSMEG_4935	PLGEM-STN-MPSP	4	518	0.34
33	MSMEG_2078	PLGEM-STN-MPSP	4	1045	0.42
34	MSMEG_1680	PLGEM-STN-MPSP	5	555	0.27
35	MSMEG_2669	PLGEM-STN-MPSP	5	967	4.00
36	MSMEG_3950	PLGEM-STN-MPSP	5	1157	3.00
37	MSMEG_0919	PLGEM-STN-MPSP	6	1170	0.41
38	MSMEG_5715	PLGEM-STN-MPSP	6	1779	2.01
39	MSMEG_5419	PLGEM-STN-MPSP	7	782	3.01
40	MSMEG_2408	PLGEM-STN-MPSP	7	1163	2.35
41	MSMEG_3106	PLGEM-STN-MPSP	7	2157	2.17
42	MSMEG_4891	PLGEM-STN-MPSP	8	3994	1.85
43	MSMEG_0777	PLGEM-STN-MPSP	8	4362	2.30
44	MSMEG_4298	PLGEM-STN-MPSP	9	12334	0.25
45	MSMEG_3564	PLGEM-STN-MPSP	11	1361	0.47
46	MSMEG_3811	PLGEM-STN-MPSP	11	3688	2.39
47	MSMEG_4281	PLGEM-STN-MPSP	12	3286	2.51
48	MSMEG_0911	PLGEM-STN-MPSP	13	8247	0.31
49	MSMEG_3247	PLGEM-STN-MPSP	14	4396	0.52
50	MSMEG_3642	PLGEM-STN-MPSP	17	3295	0.52
51	MSMEG_4936	PLGEM-STN-MPSP	19	8312	0.29
52	MSMEG_1681	PLGEM-STN-MPSP	20	934	0.31
53	MSMEG_3143	PLGEM-STN-MPSP	20	7199	2.10
54	MSMEG_6759	PLGEM-STN-MPSP	22	20370	0.36
55	MSMEG_6638	PLGEM-STN-MPSP	23	7523	0.48

PART III. Lists of peptides and proteins quantified from the S_P and R_P samples

(In the following pages, the following two tables are provided)

Supplemental Table I. List of quantified proteins

Supplemental Table II. List of quantified peptides

Supplemental Table I. List of quantified proteins

Locus	old locus	Description	PCS cou nts	Protein quantitaion							
				unlabeled proteins				A_{PRO}			
				$S_{P,1}$	$S_{P,2}$	$R_{P,1}$	$R_{P,2}$	$cS_{P,1}$	$cS_{P,2}$	$cR_{P,1}$	$cR_{P,2}$
MSMEG _0001	MSMEG 0001	DNA polymerase III, beta subunit (dnan)	3	271.6	264.2	308.8	286.0	336.4	288.3	373.4	383.1
MSMEG _0002	MSMEG 0002	gnd	6	275.8	286.0	526.0	498.5	571.9	584.8	693.9	710.1
MSMEG _0005	MSMEG 0005	DNA gyrase, B subunit (gyrB)	14	1778.4	1844.9	2046.6	1962.3	1027.5	1022.2	1020.4	1014.7
MSMEG _0006	MSMEG 0006	DNA gyrase, A subunit (gyrA)	19	2510.5	2600.0	3065.9	3082.2	1072.4	1138.9	1250.9	1439.0
MSMEG _0023	MSMEG 0023	conserved hypothetical protein	3	469.2	540.0	268.0	277.3	384.8	452.1	391.0	383.9
COG0652:Peptidyl-prolyl cis-trans isomerase (rotamase) - cyclophilin											
MSMEG _0024	MSMEG 0024	isomerase (rotamase) - cyclophilin	12	5140.5	5341.9	3559.3	3629.5	3524.0	3559.9	3474.5	3561.4
MSMEG _0033	MSMEG 0033	ppp (ppp)	1	316.7	251.6	259.6	232.3	77.2	85.2	48.9	56.2
MSMEG _0034	MSMEG 0034	FHA domain protein	1	11.4	11.7	18.8	21.0	25.5	31.0	21.4	20.1
MSMEG _0042	MSMEG 0042	transcription regulator, TetR family	1	16.4	19.0	9.1	13.0	9.8	10.5	12.5	9.8
MSMEG _0048	MSMEG 0048	conserved hypothetical protein	2	39.0	44.8	94.6	90.9	43.0	54.3	33.7	31.7

MSMEG _0057	MSMEG 0056	conserved hypothetical protein	1	6.9	5.9	18.2	18.1	53.1	45.5	31.6	32.7
MSMEG _0059	MSMEG 0058	ATPase, AAA family	4	85.5	121.9	53.1	112.4	387.0	435.4	234.4	341.0
MSMEG _0065	MSMEG 0064	conserved hypothetical protein	1	12.3	16.7	16.5	25.7	15.7	24.3	8.8	16.2
MSMEG _0066	MSMEG 0065	ea	1	81.1	76.4	159.9	177.5	116.5	101.3	117.6	125.8
MSMEG _0067	MSMEG 0066	conserved hypothetical protein	1	25.9	33.2	175.2	172.2	97.8	113.1	133.9	146.8
MSMEG _0076	MSMEG 0074	conserved hypothetical protein	1	0.2	0.6	0.2	0.7	22.4	33.0	8.6	26.9
MSMEG _0081	MSMEG 0078	conserved hypothetical protein	1	391.5	406.5	175.3	206.3	7.4	11.2	0.6	5.5
MSMEG _0084	MSMEG 0082	phosphocarrier protein HPr, putative	1	4.2	3.4	4.8	6.1	11.9	8.9	16.1	15.1
MSMEG _0091	MSMEG 0089	transcriptional regulatory protein, putative	1	12.2	18.0	15.0	19.0	57.7	54.5	17.9	27.8
MSMEG _0092	MSMEG 0090	transcriptional regulator, TetR family domain protein	10	393.0	462.9	461.7	485.9	674.2	693.2	495.3	546.3
MSMEG _0108	MSMEG 0105	acyl-CoA dehydrogenase (acdA- 2)	1	112.1	94.9	108.9	108.8	56.6	53.8	92.5	91.2
MSMEG _0110	MSMEG 0107	NAD(P) transhydrogenase, alpha subunit (pntA)	3	38.6	42.5	80.5	83.9	160.7	151.5	180.3	135.4

MSMEG _0120	MSMEG 0116	transcriptional regulator, TetR family domain protein	1	8.8	8.2	9.9	13.5	99.9	102.9	52.0	70.2
MSMEG _0131	MSMEG 0125	substrate--CoA ligase (fadD5)	1	1.7	1.3	7.1	6.2	7.1	9.1	4.1	13.8
MSMEG _0166	MSMEG 0160	transcription regulator GntR family VC1335	1	23.1	24.1	25.5	31.2	23.8	22.9	41.6	39.1
MSMEG _0215	MSMEG 0205	PUTATIVE PIRIN-LIKE PROTEIN	1	2.9	1.8	0.8	2.0	6.1	3.6	3.7	4.1
MSMEG _0216	MSMEG 0206	3-hydroxyacyl-CoA dehydrogenase type II	7	3042.6	2954.1	2364.7	2533.3	2517.6	2481.8	3143.6	3358.8
MSMEG _0220	MSMEG 0210	lysophospholipase	1	4.5	4.4	3.4	3.0	11.6	17.9	9.4	19.5
MSMEG _0224	MSMEG 0214	O-methyltransferase	2	283.5	270.6	112.9	109.6	180.1	180.9	117.3	136.4
MSMEG _0229	MSMEG 0219	dihydroxy-acid dehydratase (ilvD)	6	2491.7	2401.7	1938.3	1870.8	2347.5	2118.9	2124.5	1892.6
MSMEG _0233	MSMEG 0223	IppS (IppS)	1	90.9	101.6	79.3	110.1	132.2	141.7	182.7	176.3
MSMEG _0234	MSMEG 0224	peptidase, M13 family (pepO)	15	3600.0	3541.5	2259.9	1961.9	1726.7	1681.1	1944.2	1651.3
MSMEG _0238	MSMEG 0229	CoA-binding domain protein	7	988.2	878.7	1162.1	1242.7	329.7	337.2	261.3	286.8
MSMEG _0239	MSMEG 0230	O-acetylhomoserine/O-acetylserine sulfhydrylase family protein (cysD)	3	579.2	521.1	627.6	576.8	462.1	429.1	477.8	470.7

MSMEG _0255	MSMEG 0246	Phosphoenolpyruvate carboxykinase	23	4385.9	4450.2	5396.0	5233.5	911.9	1024.4	911.7	1005.4
		2-deydro-3- deoxyphosphogluconate									
MSMEG _0312	MSMEG 0301	aldolase/4-hydroxy-2-oxoglutarate al	1	13.8	13.0	7.0	10.5	155.6	143.7	130.8	116.0
MSMEG _0317	MSMEG 0306	conserved hypothetical protein	2	47.9	39.6	138.0	167.0	54.5	56.3	98.2	124.2
MSMEG _0356	MSMEG 0347	conserved hypothetical protein	1	24.6	29.9	8.2	9.2	12.9	19.2	9.7	8.0
MSMEG _0363	MSMEG 0355	transcriptional regulator, TetR family domain protein	1	8.7	8.8	1.8	3.1	13.0	10.4	8.9	9.9
MSMEG _0370	MSMEG 0363	conserved hypothetical protein	10	190.3	182.3	157.7	161.1	151.7	146.3	110.7	127.5
MSMEG _0371	MSMEG 0364	MaoC domain protein	3	58.9	64.0	60.3	59.0	145.2	147.2	103.1	107.0
MSMEG _0372	MSMEG 0365	fabG4 (fabG4)	8	2356.9	2008.7	1591.9	1563.1	1754.8	1616.4	2802.0	2426.0
MSMEG _0373	MSMEG 0366	fadA2 (fadA2)	3	716.2	720.4	451.3	452.2	830.6	840.4	786.3	754.6
MSMEG _0380	MSMEG 0373	TmtpA (mmpS1)	1	53.0	80.4	57.8	76.8	54.0	61.9	43.1	46.7
MSMEG _0384	MSMEG 0377	glucose-1-phosphate thymidylyltransferase (rfaA)	1	32.9	37.8	50.0	55.8	323.7	314.1	331.9	321.6
MSMEG _0386	MSMEG 0379	UDP-glucose 4-epimerase, putative	1	16.1	23.5	9.4	10.9	25.3	31.1	10.6	18.1

MSMEG _0387	MSMEG 0380	O-methyltransferase I	1	93.2	93.9	68.0	85.3	20.8	24.1	22.0	30.6
MSMEG _0388	MSMEG 0381	methyltransferase	6	287.7	282.5	482.6	534.0	426.9	445.1	566.9	595.9
MSMEG _0391	MSMEG 0384	methyltransferase	2	216.5	215.0	264.6	265.0	349.3	355.9	382.7	387.7
MSMEG _0393	MSMEG 0386	probable glycosyltransferase	4	31.0	40.6	51.1	58.1	216.6	228.5	209.4	206.4
MSMEG _0394	MSMEG 0387	hypothetical protein	4	17.7	12.4	71.0	58.4	41.9	32.3	52.8	54.9
MSMEG _0400	MSMEG 0390	peptide synthetase	51	1423.6	1446.9	2042.5	2110.7	2085.5	2001.0	2361.2	2055.5
MSMEG _0401	MSMEG 0391	pyoverdine synthetase	19	935.6	915.9	1122.6	1157.7	817.0	792.0	779.6	773.5
MSMEG _0402	MSMEG 0392	peptide synthetase	45	1477.5	1457.4	1635.2	1616.7	1504.2	1483.1	1438.3	1356.6
MSMEG _0406	MSMEG 0396	fadE5 (fadE5)	4	190.9	196.8	77.6	85.9	401.7	397.1	280.4	268.9
MSMEG _0408	MSMEG 0398	polyketide synthase	19	215.6	207.4	266.8	263.2	199.1	217.5	217.7	224.5
MSMEG _0415	MSMEG 0405	Flavin reductase like domain, putative	4	204.8	168.8	237.5	230.4	84.1	94.0	82.8	85.5
MSMEG _0422	MSMEG 0413	carboxyphosphonoenolpyruvate phosphonomutase-like protein	8	266.5	275.3	320.9	340.4	1047.3	1014.4	859.2	865.6
MSMEG _0456	MSMEG 0447	DNA gyrase, A subunit, putative	2	160.5	166.9	187.7	223.9	190.7	201.5	109.8	68.8
MSMEG _0457	MSMEG 0448	DNA gyrase subunit B, putative	2	68.6	77.7	76.8	93.8	13.9	18.2	13.0	18.6
MSMEG _0464	MSMEG 0456	phosphomethylpyrimidine kinase (thiD)	4	336.3	337.6	304.0	310.8	396.6	392.8	370.8	330.5

MSMEG _0530	MSMEG 0520	oxidoreductase, short-chain dehydrogenase/reductase family (fabG)	2	35.8	49.4	88.1	82.1	277.8	299.1	302.5	286.4
MSMEG _0531	MSMEG 0521	acyl-CoA dehydrogenase (acd-2)	2	262.5	265.3	246.8	224.3	192.9	191.0	154.3	166.2
MSMEG _0550	MSMEG 0541	ABC transporter, periplasmic substrate-binding protein	6	860.7	912.2	1271.2	1275.6	759.9	829.7	466.5	498.2
MSMEG _0551	MSMEG 0542	aliphatic sulfonates ABC transporter, ATP-binding protein	1	36.7	37.5	53.6	56.1	18.5	18.7	17.7	18.9
MSMEG _0572	MSMEG 0563	conserved hypothetical protein	5	70.9	81.1	69.2	79.8	3809.9	4353.6	3506.2	3006.0
MSMEG _0599	MSMEG 0590	fadD2 (fadD2)	2	25.9	34.1	37.8	30.2	168.0	184.1	165.1	151.9
MSMEG _0603	MSMEG 0594	fadE6 (fadE6)	1	18.6	16.7	31.5	39.3	54.4	43.1	49.5	35.3
MSMEG _0613	MSMEG 0603	conserved hypothetical protein	1	1.2	0.8	0.5	0.5	4.0	2.6	6.7	21.3
MSMEG _0614	MSMEG 0604	Mycobacterium tuberculosis paralogous family	1	87.6	98.7	25.1	28.0	32.4	34.0	15.7	24.0
MSMEG _0628	MSMEG 0619	Amidohydrolase family superfamily	1	69.2	74.4	58.9	64.3	78.0	98.7	72.6	81.0
MSMEG _0636	MSMEG 0627	conserved hypothetical protein	4	414.5	411.7	528.7	562.8	128.4	128.9	86.0	91.1

MSMEG _0640	MSMEG 0632	oligopeptide ABC transporter, ATP-binding protein (oppD)	1	11.0	10.3	19.5	15.8	49.3	46.7	20.3	27.9
MSMEG _0643	MSMEG 0635	heme-binding lipoprotein, putative	15	471.5	502.7	886.4	946.4	3387.0	3207.8	2579.2	2775.8
MSMEG _0683	MSMEG 0675	conserved hypothetical protein	2	31.3	36.6	26.9	30.8	47.2	62.2	40.2	48.2
MSMEG _0688	MSMEG 0680	aminotransferase, classes I and II	1	72.7	69.1	71.6	59.1	307.2	370.6	160.9	248.7
MSMEG _0690	MSMEG 0682	ferredoxin, 4Fe-4S	13	426.0	461.6	478.0	489.4	558.5	614.3	474.4	496.3
MSMEG _0692	MSMEG 0684	conserved hypothetical protein	4	94.5	111.5	95.1	109.6	222.3	230.2	237.1	231.5
MSMEG _0695	MSMEG 0689	conserved hypothetical protein	1	22.0	26.3	7.3	14.5	21.5	25.8	15.9	24.0
MSMEG _0702	MSMEG 0697	Luciferase-like monooxygenase superfamily	13	4940.7	5033.1	3123.9	3675.7	2897.4	2807.5	2589.2	2991.9
MSMEG _0703	MSMEG 0698	conserved hypothetical protein	4	71.1	79.5	56.2	67.3	279.2	262.1	249.7	246.6
MSMEG _0709	MSMEG 0704	DNAk protein	18	5357.7	5422.4	5344.4	4749.6	5089.5	5021.7	5512.3	4774.0
MSMEG _0710	MSMEG 0705	grpE protein (grpE)	3	265.1	332.2	148.8	219.5	227.4	283.6	131.4	181.7
MSMEG _0732	MSMEG 0726	heat shock protein	3	170.1	178.0	177.1	194.4	429.5	420.0	471.2	478.6
MSMEG _0741	MSMEG 0736	conserved hypothetical protein	6	388.3	421.9	495.6	482.5	403.0	426.7	397.5	413.5

MSMEG_0759	MSMEG_0755	adenylosuccinate synthetase (purA)	5	393.8	381.8	504.2	542.7	643.3	624.3	733.7	779.0
MSMEG_0760	MSMEG_0756	thioesterase family protein domain protein	2	59.9	64.2	56.4	68.6	104.1	92.3	98.9	107.1
MSMEG_0769	MSMEG_0763	O-succinylhomoserine sulfhydrylase (metZ)	3	647.0	652.3	473.5	480.8	858.4	902.3	784.8	834.6
MSMEG_0777	MSMEG_0772	F420-dependent glucose-6-phosphate dehydrogenase (mer-2)	8	6045.2	6120.4	2586.2	2696.6	4377.5	4331.6	3767.0	3865.6
MSMEG_0779	MSMEG_0774	3-oxoacyl-(acyl-carrier-protein) reductase	2	163.2	174.6	110.4	116.3	324.3	336.4	315.8	330.9
MSMEG_0783	MSMEG_0778	phosphate acetyltransferase (pta)	1	30.3	36.1	36.5	30.2	26.7	39.5	30.7	34.2
MSMEG_0789	MSMEG_0785	thiamine-phosphate pyrophosphorylase (thiE)	2	128.9	132.8	97.5	93.3	124.5	123.8	114.5	107.9
MSMEG_0793	MSMEG_0788	thiazole biosynthesis protein ThiG (thiG)	2	109.8	118.3	100.0	100.5	85.5	88.3	159.6	167.2
MSMEG_0814	MSMEG_0807	hypothetical protein	5	383.9	408.9	520.0	486.4	418.8	439.5	505.3	474.0
MSMEG_0825	MSMEG_0817	phosphomethylpyrimidine kinase (thiD)	5	556.9	564.6	716.2	760.6	917.0	893.1	851.9	948.0
MSMEG_0826	MSMEG_0818	thiamin biosynthesis protein ThiC	1	111.6	116.1	45.8	53.2	15.3	16.4	5.2	17.5

MSMEG _0832	MSMEG 0826	peptide deformylase (def)	1	145.7	158.1	141.0	139.2	166.1	178.0	205.1	208.6
MSMEG _0834	MSMEG 0828	conserved hypothetical protein	1	75.9	81.9	84.2	98.6	64.4	85.4	21.2	48.2
MSMEG _0835	MSMEG 0829	copper/zinc superoxide dismutase (sodC)	2	699.0	657.1	829.0	730.8	1081.7	950.3	1179.2	1000.1
MSMEG _0858	MSMEG 0852	cell division control protein 48, AAA family (cdc48-1)	2	1398.3	1509.9	1251.2	1153.3	1183.4	1196.1	1113.4	1081.2
MSMEG _0859	MSMEG 0851	Aha1 domain family	5	182.8	189.2	140.8	158.9	209.0	214.5	206.5	215.4
MSMEG _0861	MSMEG 0854	phosphatidylserine decarboxylase (psd)	3	52.2	88.9	28.0	36.7	4.2	5.9	4.1	3.4
MSMEG _0863	MSMEG 0856	oxidoreductase, short-chain dehydrogenase/reductase family	2	114.4	120.2	126.1	144.8	263.9	268.2	308.2	262.8
MSMEG _0876	MSMEG 0871	oxidoreductase, short-chain dehydrogenase/reductase family	2	71.4	83.4	50.4	50.1	85.5	99.3	106.2	116.1
MSMEG _0877	MSMEG 0870	dihydrodipicolinate synthase family protein	2	95.3	105.3	88.6	103.1	64.3	65.3	49.0	62.2
MSMEG _0880	MSMEG 0873	60 kd chaperonin , fragment	24	24758.5	25511.7	25648.9	26468.9	16427.4	17058.2	15398.6	16674.9
MSMEG _0882	MSMEG 0875	conserved hypothetical protein	1	415.7	464.3	449.9	477.5	426.3	467.0	377.2	392.1
MSMEG _0884	MSMEG 0877	glyoxalase family protein	1	21.2	23.7	26.1	31.5	24.6	31.1	27.9	34.6

MSMEG _0887	MSMEG 0880	conserved hypothetical protein	1	149.1	162.2	91.1	108.7	215.2	206.9	164.4	198.9
MSMEG _0889	MSMEG 0882	gabD1 (gabD1)	1	6.9	3.6	9.3	7.9	221.1	208.1	307.2	248.2
MSMEG _0899	MSMEG 0893	prolyl oligopeptidase family protein (pep)	4	188.3	178.2	172.3	127.2	206.1	224.7	223.8	213.7
MSMEG _0903	MSMEG 0897	dihydrolipoamide dehydrogenase (lpdA)	13	7390.5	7313.7	7873.1	8058.1	7997.3	8028.5	9042.2	9388.6
MSMEG _0905	MSMEG 0899	conserved hypothetical protein	2	65.4	75.5	76.2	38.2	88.1	55.1	153.7	67.5
MSMEG _0909	MSMEG 0903	conserved hypothetical protein	2	72.8	80.2	67.9	70.7	57.5	56.9	58.6	64.0
MSMEG _0911	MSMEG 0904	isocitrate lyase (aceA)	13	3803.7	4014.2	12486.0	12684.8	707.5	855.3	595.7	709.7
MSMEG _0912	MSMEG 0905	fadB2 (fadB2)	9	1326.4	1308.0	2031.8	2031.5	1790.3	1694.5	1966.9	1883.2
MSMEG _0913	MSMEG 0906	methoxy mycolic acid synthase 1 (umaA1)	15	2960.1	3072.9	4195.9	4127.8	1531.9	1602.4	1539.5	1641.4
MSMEG _0916	MSMEG 0909	transcriptional regulator, TetR family	1	39.5	37.9	36.8	45.8	53.7	49.2	17.9	31.7
MSMEG _0918	MSMEG 0911	Helix-turn-helix domain protein	3	35.7	40.8	67.5	65.2	369.8	380.5	384.1	368.5
MSMEG _0919	MSMEG 0912	conserved hypothetical protein	6	638.7	717.5	1634.0	1690.6	6661.6	7415.7	6870.1	7187.6
MSMEG _0924	MSMEG 0916	carbon-nitrogen hydrolase family protein, putative	1	66.6	73.0	59.2	70.1	15.2	16.4	12.6	17.2

MSMEG _0927	MSMEG 0919	conserved hypothetical protein	3	34.0	35.6	21.4	25.1	52.2	54.9	36.6	39.2
MSMEG _0930	MSMEG 0922	oxidoreductase, short chain dehydrogenase/reductase family	6	524.6	525.3	423.9	358.3	386.7	399.0	453.6	416.4
MSMEG _0935	MSMEG 0927	phosphoglycerate mutase	15	3506.4	3534.0	3005.8	2927.4	7198.7	7540.3	15103.5	16617.2
MSMEG _0937	MSMEG 0929	DNA-binding response regulator RegX3 (regX3)	1	17.1	21.2	26.2	32.9	4.9	7.5	6.5	7.2
MSMEG _0943	MSMEG 0934	pyrroline-5-carboxylate reductase (proC)	4	653.9	714.8	633.3	646.9	333.8	325.0	372.3	381.2
MSMEG _0944	MSMEG 0935	excisionase, putative	2	61.4	62.7	61.7	58.7	237.5	239.5	225.2	218.4
MSMEG _0948	MSMEG 0939	Actinomycete protein of unknown function (DUF875) superfamily	8	287.1	216.0	251.4	262.3	140.0	99.6	118.9	119.9
MSMEG _0954	MSMEG 0944	uroporphyrin-III C-methyltransferase/uroporphyrinogen-III synthase (h)	6	447.5	482.2	534.5	535.2	298.2	317.0	266.5	265.2
MSMEG _0965	MSMEG 0955	mspA-Gen	4	460.7	497.0	298.3	398.1	496.8	533.9	433.3	551.1
MSMEG _0969	MSMEG 0959	glutamate-1-semialdehyde-2,1-aminomutase (hemL)	3	755.0	752.0	270.8	258.0	446.7	573.4	229.4	231.4
MSMEG _0970	MSMEG 0960	phosphoglycerate mutase family protein	1	213.5	204.5	184.7	187.9	136.4	126.7	107.0	105.2

MSMEG _0987	MSMEG 0977	hypothetical protein	1	38.7	0.0	39.8	49.8	114.4	0.0	121.1	110.3
MSMEG _1010	MSMEG 0998	transcriptional regulator, TetR family	3	269.5	283.3	244.7	289.4	444.2	480.3	378.5	413.0
MSMEG _1011	MSMEG 0999	oxidoreductase, short-chain dehydrogenase/reductase family	1	36.8	35.8	50.7	51.0	42.3	40.1	43.5	44.3
MSMEG _1019	MSMEG 1007	ribonucleoside-diphosphate reductase alpha chain (nrdE)	16	2251.5	2203.6	2320.3	2113.5	4569.1	4413.5	4763.6	4449.6
MSMEG _1021	MSMEG 1010	Glyoxalase/Bleomycin resistance protein/Dioxygenase family protein	1	39.6	39.0	56.5	59.5	39.9	42.9	45.8	48.0
MSMEG _1028	MSMEG 1015	probable electron transfer oxidoreductase, putative	7	2963.0	2868.2	2283.2	2360.4	2255.9	2362.1	1810.6	2022.2
MSMEG _1033	MSMEG 1019	ribonucleoside-diphosphate reductase, beta subunit	2	600.0	607.0	413.7	443.3	1210.9	1165.2	824.9	828.3
MSMEG _1037	MSMEG 1024	oxidoreductase, zinc-binding (adhA)	8	10758.9	11327.1	1547.6	1671.9	1518.3	1726.3	1145.6	1357.9
MSMEG _1038	MSMEG 1025	YCI-related domain superfamily	2	368.4	410.9	222.1	208.9	247.6	266.5	239.1	214.0
MSMEG _1041	MSMEG 1028	phosphoserine phosphatase (serB2)	1	118.8	153.6	40.6	63.8	81.8	96.1	41.5	73.7
MSMEG _1046	MSMEG 1033	ABC transporter, ATP-binding protein	5	607.4	617.0	625.6	622.7	960.7	904.8	984.6	1010.9

MSMEG _1047	MSMEG 1034	NUDIX domain protein	7	465.3	496.7	554.0	582.1	423.0	424.5	409.1	444.1
MSMEG _1048	MSMEG 1035	echA17 (echA17)	1	12.6	9.2	4.7	5.7	3.2	4.2	4.9	6.6
MSMEG _1049	MSMEG 1036	conserved hypothetical protein	2	133.3	110.6	121.3	106.1	28.1	26.7	18.9	32.9
MSMEG _1051	MSMEG 1038	immunogenic protein MPB64/MPT64	2	84.2	87.7	60.2	56.5	93.7	91.2	72.8	80.8
MSMEG _1052	MSMEG 1039	sodium:alanine symporter family protein	2	2.4	2.4	28.2	28.8	116.8	93.4	95.5	84.6
MSMEG _1060	MSMEG 1045	lysyl tRNA synthetase-like protein, putative	4	723.2	789.4	840.5	1007.8	1190.8	1317.0	823.1	940.4
MSMEG _1061	MSMEG 1046	Phosphohydrolase (MutT/nudixfamil)	3	227.4	347.8	162.4	176.4	233.2	370.4	162.7	190.1
MSMEG _1075	MSMEG 1059	naphthoate synthase (menB)	2	65.2	58.6	50.0	46.9	12.5	10.7	4.7	3.9
MSMEG _1076	MSMEG 1060	Protein hdeA precursor, putative	1	13.5	12.3	7.3	5.4	10.1	8.9	9.4	6.5
MSMEG _1077	MSMEG 1061	conserved hypothetical protein	1	50.1	54.5	34.4	38.8	72.2	77.8	62.7	65.6
MSMEG _1078	MSMEG 1062	hydrolase, haloacid dehalogenase- like family, putative	1	35.6	35.1	13.9	14.9	34.7	30.3	16.8	25.4
MSMEG _1090	MSMEG 1078	glutamyl-tRNA(Gln) amidotransferase, A subunit	1	14.6	21.5	17.5	25.2	82.5	115.1	97.0	134.0

MSMEG _1115	MSMEG 1105	ubiquinone/menaquinone biosynthesis methyltransferase (ubiE)	1	4.7	3.5	0.9	6.0	19.4	19.1	54.8	32.0
MSMEG _1133	MSMEG 1122	grcC1 (grcC1)	1	32.0	37.9	63.4	72.9	58.3	75.1	79.6	65.1
PROBABLE											
MSMEG _1134	MSMEG 1123	METALLOPROTEASE ZINC TRANSMEMBRANE PROTEIN	1	31.6	34.0	39.8	40.8	47.9	51.3	29.1	23.4
MSMEG _1143	MSMEG 1133	putative secreted protein	1	0.6	0.8	0.0	0.1	11.3	31.7	10.5	27.8
MSMEG _1165	MSMEG 1158	Protein of unknown function (DUF520) superfamily	6	210.1	180.1	170.0	188.3	354.3	309.3	363.4	380.4
MSMEG _1188	MSMEG 1181	hypothetical protein	1	66.1	57.5	47.0	48.8	61.4	53.5	56.8	51.8
MSMEG _1203	MSMEG 1198	methoxy mycolic acid synthase 1	1	79.8	73.6	104.0	90.9	134.0	129.0	136.5	151.6
MSMEG _1215	MSMEG 1208	probable serine/threonine protein kinase, putative	1	21.3	20.8	19.2	18.3	15.9	19.4	27.8	20.3
MSMEG _1225	MSMEG 1218	conserved hypothetical protein	1	50.3	29.0	17.6	13.6	176.7	153.3	143.7	150.9
MSMEG _1244	MSMEG 1236	hypothetical protein	5	33.6	30.4	39.8	42.0	46.6	39.5	33.6	35.6
MSMEG _1247	MSMEG 1240	hypothetical protein	3	57.7	66.5	159.6	177.3	422.4	419.7	494.4	501.6
MSMEG _1252	MSMEG 1245	hypothetical protein	1	4.8	3.9	2.3	3.5	49.0	48.1	19.6	23.1

MSMEG _1253	MSMEG 1247	conserved hypothetical protein	5	38.5	41.6	66.6	68.6	106.5	113.6	100.9	112.4
MSMEG _1254	MSMEG 1248	RNA helicase, putative	3	61.1	57.4	43.4	28.1	26.6	28.6	38.9	36.5
MSMEG _1255	MSMEG 1249	COG0210:Superfamily I DNA and RNA helicases	6	355.6	312.9	326.9	289.4	517.2	433.5	488.0	472.4
MSMEG _1265	MSMEG 1257	hypothetical protein	5	746.8	770.3	682.6	701.4	819.4	854.6	851.1	908.4
MSMEG _1285	MSMEG 1277	SEC-C motif domain protein	2	27.0	32.8	61.9	54.1	252.8	246.8	338.4	236.6
MSMEG _1292	MSMEG 1284	blr6160	1	12.0	11.0	5.0	5.1	20.8	20.1	23.3	15.9
MSMEG _1295	MSMEG 1287	transthyretin family protein	1	1.5	2.0	2.8	4.6	31.5	32.0	29.8	28.5
MSMEG _1296	MSMEG 1288	uricase	2	175.0	174.5	108.0	112.4	446.4	474.2	276.6	325.6
MSMEG _1331	MSMEG 1324	enoyl-CoA hydratase/isomerase family protein (fad-1)	1	8.6	6.9	12.0	9.3	7.4	5.9	10.6	8.2
MSMEG _1334	MSMEG 1327	metallo-beta-lactamase family protein	3	373.2	436.6	304.5	341.0	196.1	252.6	194.8	240.1
MSMEG _1340	MSMEG 1333	Actinomycete protein of unknown function (DUF875) superfamily	4	398.9	410.2	376.7	420.2	371.5	391.2	340.2	338.5
MSMEG _1341	MSMEG 1334	MaoC like domain, putative	3	805.1	980.9	854.9	935.8	830.4	1023.5	814.6	821.6
MSMEG _1342	MSMEG 1335	conserved hypothetical protein	2	117.6	108.8	118.2	117.0	60.4	55.3	52.6	50.1

MSMEG _1344	MSMEG 1337	preprotein translocase SecE subunit (secE)	1	39.0	50.8	62.6	65.7	15.3	20.9	10.6	13.9
MSMEG _1345	MSMEG 1338	transcription antitermination protein NusG CC3205	3	1578.6	1556.8	1429.2	1395.2	1207.5	1202.4	1299.7	1319.5
MSMEG _1346	MSMEG 1339	ribosomal protein L11 (rplK)	2	898.3	854.8	755.2	818.2	887.7	857.4	831.4	844.0
MSMEG _1347	MSMEG 1340	ribosomal protein L1 (rplA)	12	5653.8	5799.5	6845.4	6718.3	3103.5	3156.6	3636.0	3672.4
MSMEG _1350	MSMEG 1343	cyclopropane-fatty-acyl-phospholipid synthase 1	6	620.1	623.2	1023.2	988.5	333.1	339.4	306.3	326.3
MSMEG _1352	MSMEG 1345	carboxyl esterase	1	5.1	8.2	2.9	6.3	6.2	9.1	5.1	6.5
MSMEG _1364	MSMEG 1357	ribosomal protein L10 (rplJ)	8	2030.8	2153.6	2125.1	2324.0	1543.7	1555.7	1564.5	1558.3
MSMEG _1365	MSMEG 1358	ribosomal protein L7/L12 (rplL)	8	2361.9	2459.4	2425.9	2353.6	1793.1	1858.8	1777.9	1603.0
MSMEG _1367	MSMEG 1360	DNA polymerase (rpoB) (rpoB)	65	10898.8	10871.6	9413.9	9419.9	6709.2	6553.5	6175.8	5977.2
MSMEG _1368	MSMEG 1361	DNA-directed RNA polymerase, beta' subunit (rpoC)	92	12627.2	12407.2	10791.6	10347.5	7929.8	7804.8	8539.1	7951.0
MSMEG _1383	MSMEG 1376	endonuclease IV, putative	2	162.3	153.3	137.7	138.2	91.5	97.0	108.3	105.1
MSMEG _1384	MSMEG 1378	Protein of unknown function (DUF861) family	1	27.8	39.8	23.3	23.8	83.8	93.5	78.0	79.7
MSMEG _1393	MSMEG 1387	conserved hypothetical protein	1	12.2	18.0	14.5	18.5	179.7	203.0	194.3	169.7

MSMEG	MSMEG										
_1397	1392	transcriptional regulator, putative	1	3.5	6.1	2.1	3.2	85.9	85.6	63.6	56.4
MSMEG	MSMEG										
_1398	1393	ribosomal protein S12 (rpsL)	1	102.0	92.8	104.9	121.6	46.8	43.5	40.8	42.9
MSMEG	MSMEG										
_1399	1394	ribosomal protein S7 (rpsG)	11	6966.3	7674.3	6422.3	6712.5	3597.2	4047.4	3524.0	3437.6
MSMEG	MSMEG	translation elongation factor EF-G									
_1400	1395	(fusA) (fusA)	5	833.1	678.9	720.7	601.5	1014.7	790.1	868.7	762.9
MSMEG	MSMEG	translation elongation factor Tu									
_1401	1397	(tuf)	28	29767.6	29016.4	35032.6	34965.8	32108.9	31686.1	33537.3	33587.9
MSMEG	MSMEG										
_1416	1415	ferredoxin reductase	2	283.2	262.4	298.2	288.7	355.0	274.4	362.7	365.2
MSMEG	MSMEG	transcriptional regulatory protein,									
_1430	1427	putative	1	4.4	3.4	1.7	1.4	7.2	8.6	4.0	4.8
MSMEG	MSMEG										
_1435	1433	ribosomal protein S10 (rpsJ)	4	1349.3	1431.0	1650.6	1694.9	862.1	885.8	979.3	922.2
MSMEG	MSMEG										
_1436	1434	ribosomal protein L3 (rplC)	9	2484.4	2118.7	3667.7	3440.1	1277.2	1035.2	1496.9	1417.7
MSMEG	MSMEG	ribosomal protein L4/L1 family									
_1437	1435	(rplD)	4	1387.7	1071.1	1377.7	1400.8	776.1	567.9	736.2	748.4
MSMEG	MSMEG										
_1438	1436	ribosomal protein L23 (rplW)	2	1155.3	1180.7	1534.5	1588.6	767.5	814.0	841.2	805.7
MSMEG	MSMEG										
_1439	1437	ribosomal protein L2 (rplB)	7	1900.5	1757.9	1447.5	1424.6	1134.6	1057.9	1061.0	1075.3
MSMEG	MSMEG										
_1440	1438	ribosomal protein S19 (rpsS)	11	658.8	529.1	721.4	741.2	290.2	246.0	279.3	283.4
MSMEG	MSMEG										
_1441	1439	ribosomal protein L22	7	1873.5	2096.6	1919.5	1959.3	856.0	934.9	888.1	865.0
MSMEG	MSMEG										
_1442	1440	rpsC (rpsC)	7	2139.3	2223.0	1708.1	1686.9	1413.7	1636.5	1141.6	1171.1
MSMEG	MSMEG										
_1443	1441	ribosomal protein L16 (rplP)	5	3114.7	2770.5	3355.2	3190.8	2217.1	1889.5	2237.7	1965.1

MSMEG	MSMEG										
_1445	1443	rpsQ (rpsQ)	1	8.7	0.0	11.5	11.1	4.4	0.0	3.3	3.7
MSMEG	MSMEG										
_1465	1462	ribosomal protein L14 (rpIN)	6	984.3	983.4	1190.1	1134.0	594.0	621.7	613.0	567.5
MSMEG	MSMEG										
_1466	1463	ribosomal protein L24 (rplX)	4	564.4	637.9	556.3	558.7	298.5	338.2	250.5	224.9
MSMEG	MSMEG										
_1467	1464	ribosomal protein L5 (rplE)	12	3293.3	3371.4	3847.1	3836.2	2541.9	2628.3	2507.0	2466.7
MSMEG	MSMEG										
_1469	1466	ribosomal protein S8 (rpsH)	3	896.2	947.0	851.0	909.1	489.7	503.3	468.9	462.4
MSMEG	MSMEG										
_1470	1467	ribosomal protein L6 (rplF)	7	3716.9	4025.7	4164.3	4337.2	2244.7	2341.6	2327.8	2280.6
MSMEG	MSMEG										
_1471	1468	ribosomal protein L18 (rplR)	2	211.6	190.4	230.6	238.9	142.0	129.1	147.4	146.8
MSMEG	MSMEG										
_1472	1469	ribosomal protein S5 (rpsE)	11	7926.4	7751.0	8363.6	7987.2	5055.9	4926.6	5165.6	5088.7
MSMEG	MSMEG										
_1473	1470	ribosomal protein L30 (rpmD)	3	797.1	857.2	796.5	833.1	421.5	456.5	507.6	491.6
MSMEG	MSMEG										
_1474	1471	ribosomal protein L15 (rplO)	6	2722.3	3096.4	2574.3	2746.4	2407.1	2747.2	2638.6	2625.1
MSMEG	MSMEG										
_1475	1472	Rif17, putative	2	215.3	214.9	43.5	53.3	71.0	65.7	68.5	77.6
MSMEG	MSMEG	signal peptide peptidase SppA,									
_1476	1473	67K type (sppA)	1	108.9	102.2	33.9	44.4	136.8	128.6	161.7	124.3
MSMEG	MSMEG	Mycobacterium tuberculosis									
_1479	1476	paralogous family	2	94.1	114.2	33.5	39.0	61.7	72.7	38.4	64.0
MSMEG	MSMEG	Mycobacterium tuberculosis									
_1482	1479	paralogous family	1	162.5	129.6	80.8	87.8	67.2	62.1	70.4	109.5
MSMEG	MSMEG	methionine aminopeptidase, type I									
_1485	1482	(map)	4	92.5	108.6	117.3	100.4	28.8	30.1	50.7	52.1
MSMEG	MSMEG	transcriptional regulator, MarR									
_1492	1490	family family	1	3.3	3.3	3.5	3.1	3.7	4.3	3.6	3.7

MSMEG _1498	MSMEG 1497	methylmalonate-semialdehyde dehydrogenase (mmsA)	2	283.2	304.2	303.9	301.5	241.1	315.8	294.1	285.3
MSMEG _1512	MSMEG 1511	dTDP-glucose 4,6-dehydratase (rfbB)	2	112.6	117.5	79.6	89.9	141.1	157.2	136.0	144.5
MSMEG _1513	MSMEG 1512	conserved hypothetical protein	7	497.2	505.6	584.5	615.9	802.4	767.0	1721.0	1555.5
MSMEG _1521	MSMEG 1520	ribosomal protein S13p/S18e (rpsM)	9	983.6	841.1	921.0	984.3	542.3	442.5	518.8	535.1
MSMEG _1522	MSMEG 1521	rpsK (rpsK)	6	2671.6	2365.3	2996.3	3015.5	1489.5	1231.5	1414.2	1328.1
MSMEG _1523	MSMEG 1522	ribosomal protein S4 (rpsD)	8	4836.3	4716.1	4910.1	5026.4	2778.6	2713.5	2566.2	2682.1
MSMEG _1524	MSMEG 1523	DNA-directed RNA polymerase, alpha subunit	18	13359.6	12108.1	12236.1	11869.3	9878.1	9281.2	9968.2	9716.3
MSMEG _1525	MSMEG 1524	ribosomal protein L17 (rplQ)	9	1930.4	1993.8	2303.5	2249.1	1014.1	1027.4	1262.5	1202.9
MSMEG _1528	MSMEG 1527	serine esterase, cutinase family	4	220.5	239.4	184.5	198.4	167.6	184.4	167.5	163.3
MSMEG _1536	MSMEG 1535	FtsK/SpoIIIE family protein	1	45.2	40.4	35.9	36.8	25.0	27.3	29.8	31.2
MSMEG _1556	MSMEG 1553	ribosomal protein L13 (rplM)	9	2980.6	2874.7	3061.2	3121.3	1778.0	1654.0	1687.2	1553.0
MSMEG _1557	MSMEG 1554	ribosomal protein S9 (rpsl)	9	7013.5	7462.0	7573.6	7664.4	3777.7	3833.8	4262.2	4143.8
MSMEG _1567	MSMEG 1564	conserved hypothetical protein	2	62.0	62.1	103.2	100.4	168.1	156.8	151.8	158.3
MSMEG _1574	MSMEG 1571	glutamate decarboxylase	7	584.1	570.1	430.4	403.8	739.7	711.1	747.9	681.1

MSMEG _1577	MSMEG 1574	Uncharacterised P-loop hydrolase UPF0079	1	49.4	56.1	22.1	35.2	49.5	60.2	24.9	39.6
MSMEG _1581	MSMEG 1579	hypothetical protein	1	12.3	13.4	9.7	10.5	6.4	9.9	4.3	5.4
MSMEG _1582	MSMEG 1580	chaperonin, 10 kDa (groES)	8	4198.2	4908.0	5099.3	5117.4	3016.9	3365.7	3704.4	3465.0
MSMEG _1583	MSMEG 1581	KCS	14	4682.2	4494.9	4481.3	4347.6	4232.6	4166.8	3723.3	3736.7
MSMEG _1602	MSMEG 1600	inosine-5-monophosphate dehydrogenase (guaB)	6	612.9	559.6	542.1	518.3	581.1	508.1	876.8	770.8
MSMEG _1603	MSMEG 1601	IMP dehydrogenase family protein	5	908.0	852.9	705.8	698.5	1156.9	1085.3	1377.8	1105.7
MSMEG _1605	MSMEG 1603	phosphate transport system regulatory protein, putative	1	0.1	0.1	4.5	5.4	0.4	0.3	0.7	0.7
MSMEG _1610	MSMEG 1608	GMP synthase (guaA)	7	1322.3	1168.8	1040.6	1035.7	1565.4	1480.3	1582.4	1767.3
MSMEG _1614	MSMEG 1612	amino acid ABC transporter, ATP- binding protein (glnQ)	1	76.4	83.8	80.4	84.7	2.0	1.0	1.0	1.9
MSMEG _1634	MSMEG 1633	conserved hypothetical protein	3	1352.7	1445.0	1911.4	1959.6	962.1	1030.3	980.0	958.4
MSMEG _1635	MSMEG 1634	nitroreductase family protein superfamily	9	2864.3	2830.6	1672.3	1670.1	1526.7	1433.0	1607.8	1564.4
MSMEG _1642	MSMEG 1641	ABC transporter, ATP-binding protein	9	275.3	283.5	254.8	281.3	209.2	216.0	173.5	201.8

MSMEG _1647	MSMEG 1645	methylenetetrahydrofolate dehydrogenase/methenyltetrahydr ofolate cycl	7	610.8	640.5	527.1	547.7	780.7	778.1	753.3	788.7
MSMEG _1650	MSMEG 1649	methyltransferase, putative	1	6.0	14.2	5.5	7.1	31.5	29.5	35.6	38.1
MSMEG _1652	MSMEG 1651	metC (metC)	8	2217.4	2304.7	2089.1	2239.6	1387.9	1452.6	1434.5	1487.9
MSMEG _1654	MSMEG 1652	isocitrate dehydrogenase, NADP- dependent	44	14265.5	14955.9	11008.7	10559.0	8088.0	8085.0	9068.2	8476.9
MSMEG _1655	MSMEG 1653	tropinesterase homolog tpeA	2	36.5	36.3	62.6	51.9	6.1	5.6	5.4	9.5
MSMEG _1656	MSMEG 1654	exodeoxyribonuclease III (xth)	1	21.7	18.1	31.2	22.0	23.2	30.0	18.0	21.4
MSMEG _1662	MSMEG 1660	aminotransferase, class III	5	396.7	323.6	597.7	553.1	513.3	456.0	555.1	581.0
MSMEG _1663	MSMEG 1661	regulatory protein AsnC, putative	2	128.2	130.1	127.1	107.6	72.7	72.9	47.1	50.2
MSMEG _1665	MSMEG 1662	aldehyde dehydrogenase family protein	1	291.2	284.9	234.4	207.1	167.1	209.1	248.1	227.8
MSMEG _1669	MSMEG 1666	sdhB (sdhB)	5	854.6	862.6	1527.6	1630.5	825.7	834.3	810.9	860.5
MSMEG _1670	MSMEG 1667	succinate dehydrogenase, flavoprotein subunit (sdhA)	8	1044.7	986.7	1679.9	1458.4	1278.6	1200.1	1055.8	953.9
MSMEG _1671	MSMEG 1668	succinate dehydrogenase, hydrophobic membrane anchor protein	1	9.2	5.8	19.8	23.3	5.1	2.1	4.2	7.2
MSMEG _1672	MSMEG 1669	sdhC (sdhC)	1	230.3	264.8	397.5	393.6	290.3	319.5	263.5	239.4

MSMEG _1676	MSMEG 1673	adenosine deaminase (add)	2	236.7	194.7	97.8	135.4	135.9	90.6	143.2	168.2
MSMEG _1679	MSMEG 1676	amiB (amiB)	3	161.7	184.4	387.2	364.4	476.1	518.3	786.6	783.6
MSMEG _1680	MSMEG 1677	conserved hypothetical protein	5	227.8	243.3	885.2	863.8	618.3	637.9	604.4	591.1
MSMEG _1681	MSMEG 1678	YER057c/YjgF/UK114 family protein	20	448.0	425.5	1378.7	1482.6	2084.2	1993.9	1505.1	1501.3
MSMEG _1682	MSMEG 1679	monooxygenase, putative	11	646.1	632.8	2722.7	2676.2	214.2	188.4	185.3	217.9
MSMEG _1683	MSMEG 1680	cytosine/purine/uracil/thiamine/allantoin permease family protein	1	0.0	0.0	0.8	0.5	34.4	43.3	37.1	31.7
MSMEG _1694	MSMEG 1690	uracil phosphoribosyltransferase	2	39.5	38.5	49.6	55.1	78.4	77.9	41.8	49.7
MSMEG _1696	MSMEG 1692	putative MarR-family transcriptional regulator	1	176.9	182.5	186.4	190.3	177.8	161.8	224.5	207.6
MSMEG _1701	MSMEG 1697	purine nucleotide phosphorylase	2	21.7	22.2	21.5	22.9	30.9	27.6	25.2	34.0
MSMEG _1704	MSMEG 1700	sugar ABC transporter, periplasmic sugar-binding protein	4	182.6	187.8	167.8	145.6	1088.7	1093.9	1031.4	1076.1
MSMEG _1712	MSMEG 1708	periplasmic ribose-binding protein	1	1.3	5.4	2.8	6.0	19.7	16.2	13.6	12.5
MSMEG _1713	MSMEG 1709	L-ribulokinase (araB)	1	18.2	24.0	19.4	25.9	28.7	32.7	14.8	18.1
MSMEG _1734	MSMEG 1730	conserved hypothetical protein	4	91.4	56.6	83.0	85.8	115.1	56.7	83.6	92.8

MSMEG _1735	MSMEG 1731	alpha keto acid dehydrogenase complex, E3 component, lipoamide dehydr	3	322.8	312.1	297.1	266.7	429.5	440.2	397.0	433.2
MSMEG _1753	MSMEG 1750	MTA/SAH nucleosidase	1	88.2	91.6	58.7	55.2	91.7	94.7	84.7	80.4
MSMEG _1757	MSMEG 1754	Ihr (lhr)	1	1.6	2.3	2.4	3.6	14.0	14.8	12.7	14.0
MSMEG _1760	MSMEG 1758	bll7251	1	71.8	76.3	43.5	57.6	136.0	134.6	95.7	116.8
MSMEG _1803	MSMEG 1801	rsbW (rsbW)	3	343.9	393.1	289.5	305.8	449.8	537.8	458.9	438.2
MSMEG _1807	MSMEG 1807	biotin carboxylase/biotin carboxyl carrier protein	31	27068.7	27292.5	25172.7	26657.6	32691.1	32943.1	31227.7	32493.4
MSMEG _1808	MSMEG 1808	Fe-S metabolism associated domain subfamily (sufE)	1	81.1	91.4	79.6	73.2	109.6	133.6	63.3	76.1
MSMEG _1809	MSMEG 1809	thiosulfate sulfurtransferase (cysA-1)	12	2814.1	2713.0	1997.6	1840.6	2299.2	2149.3	1631.4	1572.7
MSMEG _1812	MSMEG 1811	conserved hypothetical protein	1	133.5	124.8	116.4	136.7	97.6	96.3	78.9	85.4
MSMEG _1813	MSMEG 1812	propionyl-CoA carboxylase, beta subunit (accD5)	12	4791.4	4857.2	4043.6	4160.0	5556.5	5490.3	4411.4	4577.8
MSMEG _1819	MSMEG 1818	phosphoribosylaminoimidazole carboxylase, ATPase subunit (purK)	2	207.2	159.5	109.7	119.0	132.2	131.1	249.3	244.7

MSMEG _1822	MSMEG 1821	biotin--acetyl-CoA-carboxylase ligase	1	29.8	30.2	25.0	22.6	38.8	39.1	30.2	35.1
MSMEG _1825	MSMEG 1824	dTDP-4-dehydrorhamnose reductase (rfbD)	1	121.3	119.6	135.5	130.5	57.3	60.6	109.2	105.7
MSMEG _1828	MSMEG 1826	rmlA2 (rmlA2)	2	208.0	166.8	122.9	95.5	80.0	87.2	74.8	76.4
MSMEG _1832	MSMEG 1831	conserved hypothetical protein	1	20.5	0.0	17.9	18.5	36.5	0.0	38.6	39.7
MSMEG _1834	MSMEG 1833	pmmA (pmmA)	1	10.9	9.4	5.8	5.4	5.3	5.6	5.0	4.6
MSMEG _1836	MSMEG 1835	mannose-6-phosphate isomerase, class I (manA)	1	139.3	142.2	105.6	97.9	105.8	131.8	90.7	94.0
MSMEG _1843	MSMEG 1842	adenosylhomocysteinase (ahcY)	11	3786.7	3450.0	5195.4	5273.6	3576.1	3349.7	3634.0	3976.3
MSMEG _1873	MSMEG 1876	Thymidylate kinase	1	65.8	68.7	42.4	48.7	117.0	119.7	65.4	89.7
MSMEG _1874	MSMEG 1877	DNA-binding response regulator MtrA (mtrA)	3	366.1	412.5	308.9	349.7	375.5	367.9	425.7	426.1
MSMEG _1878	MSMEG 1881	S30AE family protein	4	42.1	46.4	46.6	62.5	499.0	549.0	367.9	407.4
MSMEG _1881	MSMEG 1882	preprotein translocase, SecA subunit (secA)	18	2310.9	2296.2	2338.4	2344.1	2716.1	2848.1	2518.8	2194.3
MSMEG _1888	MSMEG 1890	Mycobacterium tuberculosis paralogous family	1	33.6	37.8	1.1	0.3	3.5	3.0	1.3	2.0

MSMEG _1890	MSMEG 1892	3-phosphoshikimate 1-carboxyvinyltransferase (aroA)	1	4.5	4.1	2.1	1.9	2.1	1.6	2.0	1.4
MSMEG _1903	MSMEG 1907	CAIB/BAIF family	2	74.3	53.0	28.7	8.9	9.4	5.5	21.0	4.2
MSMEG _1913	MSMEG 1917	ybaK/ebsC protein	2	64.6	69.7	38.5	43.6	77.2	87.3	82.8	92.4
MSMEG _1914	MSMEG 1918	RNA polymerase sigma-70 factor, ECF subfamily	4	350.3	396.5	323.4	366.3	342.4	365.1	317.7	338.1
MSMEG _1926	MSMEG 1929	phosphoglycerate mutase family protein	1	40.8	32.4	37.5	22.7	65.7	68.7	65.8	71.2
MSMEG _1927	MSMEG 1930	Soj family protein (probable)	1	29.6	34.0	27.7	27.3	93.3	98.5	110.3	122.4
MSMEG _1934	MSMEG 1938	conserved hypothetical protein	1	168.1	190.8	138.3	153.1	254.9	261.5	250.7	246.8
MSMEG _1935	MSMEG 1939	transcriptional regulator, TetR family domain protein	1	100.5	117.8	74.2	97.9	116.3	128.4	62.9	97.4
MSMEG _1940	MSMEG 1944	hydrolase, alpha/beta hydrolase fold family	1	32.7	32.2	33.9	27.3	67.1	62.2	67.2	75.4
MSMEG _1951	MSMEG 1955	maebl, putative	2	9.1	12.7	31.4	37.8	141.9	151.7	136.8	151.5
MSMEG _1954	MSMEG 1958	ABC transporter, ATP-binding protein, putative	1	28.3	30.6	13.9	24.0	74.1	50.0	57.2	67.6
MSMEG _1959	MSMEG 1961	Uncharacterised protein family (UPF0182) superfamily	7	536.9	514.4	630.1	579.0	907.3	891.0	736.0	805.3

MSMEG _1979	MSMEG 1982	Uncharacterized ACR, YneC family COG1359 subfamily	1	17.6	35.0	10.4	16.2	161.0	320.5	94.6	138.8
MSMEG _1981	MSMEG 1984	conserved hypothetical protein	3	189.3	222.0	186.7	212.1	251.2	248.0	223.0	197.6
MSMEG _1996	MSMEG 1997	putative N5, N10-methylenetetrahydromethanopterin reductase-related protein	9	543.3	549.9	295.1	346.7	490.2	482.6	454.0	484.6
MSMEG _2010	MSMEG 2010	conserved hypothetical protein	2	107.7	106.8	138.1	130.1	143.0	147.5	206.2	184.0
MSMEG _2019	MSMEG 2018	oxidoreductase, short chain dehydrogenase/reductase family	1	10.9	9.8	3.1	6.2	19.8	25.7	14.2	17.1
MSMEG _2025	MSMEG 2027	transcriptional regulator, putative	1	19.1	20.4	16.1	20.2	28.2	28.7	19.8	23.0
MSMEG _2026	MSMEG 2028	oxidoreductase, short-chain dehydrogenase/reductase family	8	2269.2	2296.1	1669.3	1643.4	1233.8	1191.6	1297.9	1332.8
MSMEG _2027	MSMEG 2029	conserved hypothetical protein	2	101.9	108.0	47.2	53.0	114.0	127.0	119.9	114.8
MSMEG _2033	MSMEG 2034	fadB4 (fadB4)	3	476.4	472.1	383.4	354.7	651.5	726.3	492.8	491.2
MSMEG _2045	MSMEG 2046	xenobiotic compound monooxygenase, DszA family	2	150.1	117.8	132.1	113.7	141.4	103.2	440.4	498.4
MSMEG _2078	MSMEG 2080	esterase, putative, antigen 85-B	4	598.3	633.1	1515.3	1434.4	1126.8	1141.8	1322.3	1259.4

MSMEG _2079	MSMEG 2081	alcohol dehydrogenase, zinc-containing	1	206.3	214.9	101.6	125.3	116.3	110.2	74.6	83.3
MSMEG _2080	MSMEG 2082	fadE23 (fadE23)	1	49.1	40.6	31.9	32.2	150.5	150.3	106.6	136.5
MSMEG _2081	MSMEG 2083	fadE24 (fadE24)	4	343.0	355.6	316.4	322.2	611.2	673.4	814.6	784.8
MSMEG _2089	MSMEG 2090	ftsE (ftsE)	1	48.4	32.4	31.7	43.8	29.8	25.8	19.7	39.7
MSMEG _2090	MSMEG 2091	ftsE protein, putative	1	12.3	7.7	11.3	10.3	4.7	2.1	2.6	2.9
MSMEG _2092	MSMEG 2093	D-aminopeptidase putative	2	97.3	66.7	102.1	102.6	149.7	145.0	188.3	185.9
MSMEG _2111	MSMEG 2114	chorismate mutase, putative, putative	1	30.4	23.4	25.9	30.2	31.5	24.9	26.4	30.9
MSMEG _2112	MSMEG 2115	putative secreted protein	2	16.5	14.4	7.9	9.6	53.0	38.2	53.7	53.5
MSMEG _2116	MSMEG 2119	Phosphotransferase system IIC components, glucose/maltose/N-acetylglu	2	1.9	2.3	9.7	11.8	17.4	18.8	28.4	29.2
MSMEG _2117	MSMEG 2120	PTS system, IIABC components (EC2.7.1.69)	2	143.1	128.2	94.2	89.4	210.3	205.7	191.8	178.6
MSMEG _2118	MSMEG 2121	glucosamine-6-phosphate isomerase (nagB)	1	73.6	72.9	59.3	49.5	84.8	88.4	85.1	84.7
MSMEG _2136	MSMEG 2139	phosphoglucomutase, alpha-D-glucose phosphate-specific (pgm)	3	172.2	136.0	156.9	143.6	259.9	242.1	327.2	321.3

MSMEG _2155	MSMEG 2157	NADPH quinone oxidoreductase, putative	1	1.6	2.7	3.7	3.9	34.2	24.8	34.8	29.5
MSMEG _2171	MSMEG 2175	CAIB/BAIF family protein	1	0.2	0.3	0.1	0.2	5.0	5.0	0.9	1.5
MSMEG _2174	MSMEG 2178	COG3973:Superfamily I DNA and RNA helicases	3	215.8	186.7	138.4	139.3	59.0	56.9	68.4	56.3
MSMEG _2198	MSMEG 2203	HesA/MoeB/ThiF family protein (moeY)	7	519.2	542.7	495.6	506.0	1014.4	1028.5	1131.9	1105.2
MSMEG _2201	MSMEG 2206	MaoC family protein	8	1317.6	1419.7	1404.6	1549.8	1963.3	2081.8	1851.5	1895.6
MSMEG _2225	MSMEG 2230	transcriptional regulator, TetR family, putative	2	44.1	40.8	49.9	61.7	104.6	105.2	85.8	106.0
MSMEG _2263	MSMEG 2266	F420-nonreducing hydrogenase, putative	1	76.7	86.5	249.3	239.3	62.2	69.4	106.7	99.9
MSMEG _2271	MSMEG 2274	hydrogenase accessory protein HypB (hypB)	1	27.0	35.3	61.5	66.6	109.9	152.2	64.8	58.7
MSMEG _2280	MSMEG 2283	pyruvate dehydrogenase	5	145.9	137.8	228.0	170.0	415.9	396.6	297.4	293.4
MSMEG _2351	MSMEG 2350	electron transfer flavoprotein, beta subunit (etfB)	10	4118.4	4359.8	4330.1	4323.6	3104.9	3314.1	3660.5	3753.1
MSMEG _2352	MSMEG 2351	electron transfer flavoprotein, alpha subunit (etfA)	14	12624.2	13306.3	10985.1	11299.6	12476.7	12353.4	9224.6	9681.0
MSMEG _2362	MSMEG 2361	DNA ligase, NAD-dependent (ligA)	9	768.6	724.8	867.7	747.3	714.0	726.9	725.7	718.1

MSMEG _2365	MSMEG 2364	glutamyl-tRNA(Gln) amidotransferase subunit A (gatA)	4	597.2	593.8	375.5	374.0	527.2	594.3	798.0	804.8
MSMEG _2366	MSMEG 2365	Phosphofructokinase	1	62.0	66.7	36.5	38.8	466.1	504.4	335.6	387.0
MSMEG _2367	MSMEG 2366	glutamyl-tRNA(Gln) amidotransferase, B subunit (gatB)	4	555.1	509.5	547.9	486.6	330.4	306.0	476.6	390.4
MSMEG _2372	MSMEG 2371	acetolactate synthase, large subunit, biosynthetic type (ilvB)	2	104.6	93.6	113.7	86.6	47.9	37.8	68.2	58.5
MSMEG _2373	MSMEG 2372	acetolactate synthase, small subunit (ilvN)	5	190.3	170.7	173.0	170.4	34.0	27.5	19.1	22.0
MSMEG _2374	MSMEG 2373	ketol-acid reductoisomerase (ilvC)	16	4212.1	3415.9	4885.9	4546.4	3695.0	3132.8	4371.0	4339.8
MSMEG _2375	MSMEG 2374	tryptophan repressor binding protein (wrB)	1	91.3	94.0	70.4	231.7	107.3	105.9	108.8	126.3
MSMEG _2378	MSMEG 2377	D-3-phosphoglycerate dehydrogenase (serA)	10	2109.1	1871.5	2164.8	2050.8	2845.0	2485.2	3189.9	2921.8
MSMEG _2379	MSMEG 2378	3-isopropylmalate dehydrogenase (leuB)	4	1340.9	1366.2	832.9	771.1	1041.3	1073.5	951.3	923.7
MSMEG _2382	MSMEG 2381	2-hydroxyhepta-2,4-diene-1,7- dioate isomerase/5-carboxymethyl 2-oxo-h	4	344.4	363.5	315.3	345.2	365.9	374.8	314.7	413.8

MSMEG _2383	MSMEG 2382	glutamyl-tRNA synthetase (gltX)	5	630.7	597.5	676.1	604.2	697.7	688.6	954.8	893.6
MSMEG _2387	MSMEG 2386	3-isopropylmalate dehydratase, large subunit (leuC)	1	98.0	132.2	55.9	50.8	108.9	129.7	84.0	89.2
MSMEG _2388	MSMEG 2387	3-isopropylmalate dehydratase, small subunit (leuD)	8	3016.7	3233.8	2678.8	2776.0	2830.1	2929.8	2711.8	2885.2
MSMEG _2389	MSMEG 2388	histone-like protein	11	2725.2	2647.1	4589.1	4069.9	4321.5	4001.2	5727.8	5105.6
MSMEG _2391	MSMEG 2390	polyphosphate kinase (ppk)	13	1726.7	1741.3	1374.8	1385.3	2566.7	2584.8	2633.6	2637.9
MSMEG _2397	MSMEG 2396	transcriptional regulator, AsnC family, putative	1	28.9	28.5	11.9	12.9	31.5	38.9	39.3	29.4
MSMEG _2399	MSMEG 2398	uracil-DNA glycosylase (ung)	1	88.7	78.1	79.1	77.1	58.9	49.9	54.0	49.8
MSMEG _2407	MSMEG 2405	oxidoreductase, aldo/keto reductase family	8	876.4	795.4	914.7	960.0	663.9	573.2	654.2	679.5
MSMEG _2408	MSMEG 2406	oxidoreductase, aldo/keto reductase family	7	1580.9	1677.0	649.5	746.1	663.9	695.0	642.2	728.9
MSMEG _2410	MSMEG 2408	u0002a	4	311.4	351.0	255.6	308.7	199.3	214.7	171.2	219.5
MSMEG _2412	MSMEG 2410	pyruvate carboxylase (pyc)	42	4319.5	4219.8	3929.2	3870.8	7325.7	7347.2	6443.9	6230.5
MSMEG _2413	MSMEG 2411	methyltransferase, putative	1	22.0	26.8	14.1	13.2	27.7	32.7	19.5	21.6
MSMEG _2414	MSMEG 2412	pantetheine-phosphate adenylyltransferase (coAD)	3	275.4	278.8	233.8	231.9	400.7	417.4	355.7	345.7

MSMEG _2415	MSMEG 2413	conserved hypothetical protein	1	4.7	4.9	2.6	4.7	172.6	161.9	245.4	209.8
MSMEG _2418	MSMEG 2416	ribonuclease III (rnc)	3	115.2	121.9	85.4	79.3	214.6	238.1	213.4	244.4
MSMEG _2421	MSMEG 2420	conserved hypothetical protein	5	161.6	121.3	120.2	132.5	151.2	82.2	149.2	154.2
MSMEG _2423	MSMEG 2422	chromosome partition protein SMC, putative	1	15.4	15.9	14.6	16.0	19.1	19.4	19.2	18.3
MSMEG _2424	MSMEG 2423	signal recognition particle receptor FtsY (ftsY)	2	163.8	185.6	167.2	194.1	135.0	155.7	100.4	180.0
MSMEG _2426	MSMEG 2425	Nitrogen regulatory protein P-II	11	154.0	157.2	138.5	148.9	3182.0	3381.9	3861.3	3603.8
MSMEG _2427	MSMEG 2426	protein-P-II uridylyltransferase (glnD)	11	40.8	48.0	34.8	42.8	1558.7	1534.8	1792.5	1920.2
MSMEG _2435	MSMEG 2433	ribosomal protein S16 (rpsP)	9	4271.6	4436.9	5028.2	5536.0	3100.8	3221.2	3503.8	3678.0
MSMEG _2437	MSMEG 2435	16S rRNA processing protein RimM VC0562	1	10.3	11.9	10.7	13.5	17.0	17.9	12.9	12.4
MSMEG _2440	MSMEG 2438	50S ribosomal protein L19 (rplS)	4	1147.6	1328.3	1401.8	1302.4	605.7	688.5	609.8	532.7
MSMEG _2443	MSMEG 2441	conserved hypothetical protein	4	123.0	136.6	124.0	125.0	116.2	124.9	114.5	99.8
MSMEG _2450	MSMEG 2446	4-aminobutyrate aminotransferase (goaG)	1	23.2	19.8	26.3	23.8	2.2	2.6	1.5	1.8
MSMEG _2468	MSMEG 2467	CAIB/BAIF family protein, putative	1	11.8	12.0	8.6	10.3	7.6	9.0	3.8	5.8

MSMEG _2511	MSMEG 2512	siderophore utilization protein (viuB)	2	391.6	424.7	260.8	283.5	166.7	177.0	146.5	150.9
MSMEG _2516	MSMEG 2520	Luciferase-like monooxygenase superfamily	4	322.7	340.3	145.5	150.1	195.7	220.3	206.5	204.4
MSMEG _2519	MSMEG 2522	ribosomal protein S2 (rpsB)	6	1155.7	1087.1	847.1	823.2	997.7	1128.8	508.4	615.2
MSMEG _2524	MSMEG 2527	ABC transporter, ATP-binding protein homolog	3	3.1	3.2	4.2	3.5	160.4	174.4	203.4	196.4
MSMEG _2525	MSMEG 2528	amino acid permease family protein, putative	1	25.9	33.8	20.5	27.6	472.9	452.2	483.0	466.9
MSMEG _2526	MSMEG 2529	amine oxidase	20	292.3	288.9	277.0	240.8	3106.7	2945.1	3605.6	3377.1
MSMEG _2528	MSMEG 2531	glycerate kinase	3	280.0	250.6	158.9	144.4	728.3	668.7	535.2	527.4
MSMEG _2540	MSMEG 2543	uridylate kinase	3	210.0	213.2	195.2	194.4	254.9	268.7	198.3	197.1
MSMEG _2541	MSMEG 2544	ribosome recycling factor (frr)	3	65.6	70.6	86.6	82.6	170.4	146.0	181.3	188.5
MSMEG _2553	MSMEG 2555	transcriptional regulator, TetR family domain protein	1	10.2	10.1	6.2	6.7	9.4	11.7	3.4	5.7
MSMEG _2580	MSMEG 2581	1-hydroxy-2-methyl-2-(E)-butenyl 4-diphosphate synthase (ispG)	3	551.0	539.9	366.6	393.2	421.3	452.4	331.8	375.4
MSMEG _2587	MSMEG 2588	methionine aminopeptidase, type I (map)	1	36.4	37.8	13.0	23.4	5.7	6.4	4.8	5.2

MSMEG _2594	MSMEG 2595	asparagine synthase (glutamine-hydrolyzing)	3	345.5	346.8	304.0	343.6	47.0	55.4	25.8	24.3
MSMEG _2598	MSMEG 2599	oxidoreductase, short-chain dehydrogenase/reductase family	2	86.0	87.0	113.8	138.1	358.1	370.6	322.2	376.2
MSMEG _2606	MSMEG 2607	transcriptional regulator, ArsR family (smtB)	1	8.1	9.6	11.2	9.8	26.4	22.0	21.5	21.3
MSMEG _2613	MSMEG 2614	malate:quinone-oxidoreductase (mqo)	5	408.6	425.5	567.0	501.5	238.8	222.0	284.0	254.2
MSMEG _2616	MSMEG 2617	cob(I)alamin adenosyltransferase (cobO)	1	37.7	37.0	39.1	34.9	54.0	52.0	49.8	54.7
MSMEG _2621	MSMEG 2622	prolyl-tRNA synthetase (proS)	19	2122.7	2107.7	1843.7	1719.9	2535.0	2552.4	2656.2	2769.3
MSMEG _2628	MSMEG 2627	translation initiation factor IF-2 (infB)	20	2250.1	2134.9	2007.8	1826.5	1879.2	1774.3	1827.8	1753.5
MSMEG _2641	MSMEG 2640	EchA16_2 (fad)	4	686.3	711.9	466.1	484.5	470.3	471.9	523.8	526.3
MSMEG _2653	MSMEG 2652	riboflavin biosynthesis protein RibF (ribF)	1	13.6	13.2	12.5	17.5	15.5	15.6	10.9	10.8
MSMEG _2654	MSMEG 2653	ribosomal protein S15 (rpsO)	8	2556.8	2424.1	2763.4	2779.7	1155.4	1117.5	1333.8	1316.9
MSMEG _2656	MSMEG 2655	polyribonucleotide nucleotidyltransferase VC0647	32	8207.5	7959.7	7920.5	7377.8	6056.4	5841.6	7674.9	7217.5
MSMEG _2658	MSMEG 2657	beta-lactamase	3	106.8	120.1	57.5	83.5	23.0	31.2	22.7	34.3

MSMEG _2664	MSMEG 2662	dihydrodipicolinate reductase (dapB)	2	87.9	87.5	81.2	79.9	87.5	87.1	103.1	98.0
MSMEG _2667	MSMEG 2666	conserved hypothetical protein	4	292.2	273.4	160.4	150.8	495.0	535.5	380.1	422.0
MSMEG _2669	MSMEG 2667	dienelactone hydrolase family protein	5	1576.9	1515.3	362.9	413.8	583.8	545.5	521.7	587.2
MSMEG _2671	MSMEG 2669	dihydrofolate reductase (folA)	1	37.5	38.5	21.7	26.4	62.0	58.4	51.6	64.4
MSMEG _2684	MSMEG 2682	dihydrodipicolinate synthase (dapA)	3	208.2	217.3	243.0	232.9	1135.4	1233.4	1438.1	1440.4
MSMEG _2688	MSMEG 2686	Uncharacterized ACR, YneC family COG1359 subfamily	1	58.5	57.4	23.2	29.7	26.0	25.7	22.7	29.1
MSMEG _2698	MSMEG 2697	conserved hypothetical protein	4	238.3	228.5	203.2	207.6	215.2	206.3	180.9	166.6
MSMEG _2723	MSMEG 2725	recA protein (recA)	1	16.0	8.4	2.5	2.6	2.7	0.5	0.2	0.4
MSMEG _2727	MSMEG 2729	glnH, putative	11	1208.2	1278.3	2126.9	2148.0	5105.6	5717.8	4873.5	5160.4
MSMEG _2731	MSMEG 2734	Domain of Unknown Function (DUF349) family	5	1045.3	1189.9	1033.2	1035.5	806.8	981.5	716.2	815.8
MSMEG _2739	MSMEG 2742	conserved hypothetical protein	2	42.5	43.4	56.3	61.7	109.2	101.6	99.4	97.8
MSMEG _2740	MSMEG 2743	LexA repressor (lexA)	1	14.6	12.3	17.3	16.2	52.8	27.4	19.6	21.6

MSMEG _2743	MSMEG 2745	conserved hypothetical protein TIGR00244	1	25.9	24.5	21.2	24.1	35.6	32.1	35.2	27.7
MSMEG _2744	MSMEG 2746	phenazine biosynthesis protein, PhzF family, putative	3	315.2	333.2	230.2	219.2	310.6	320.5	364.6	389.5
MSMEG _2750	MSMEG 2753	siderophore biosynthesis iron binding repressor (dtxR)	1	79.6	85.3	110.7	93.5	171.7	184.0	248.6	239.9
MSMEG _2758	MSMEG 2759	RNA polymerase sigma factor MysA (mysA)	9	810.8	781.6	735.7	659.2	585.5	531.8	526.8	472.8
MSMEG _2760	MSMEG 2760	polyphosphate glucokinase	3	130.4	148.1	180.6	194.0	474.5	500.5	506.2	551.0
MSMEG _2762	MSMEG 2761	inositol monophosphatase family protein (suhB)	8	486.6	489.1	440.9	450.9	443.7	449.2	516.7	569.9
MSMEG _2763	MSMEG 2763	conserved hypothetical protein	1	21.2	22.3	35.8	38.2	18.4	19.2	18.4	17.4
MSMEG _2765	MSMEG 2764	deoxyuridine 5-triphosphate nucleotidohydrolase (dut)	2	326.2	336.2	268.4	284.4	223.6	269.3	216.9	247.8
MSMEG _2766	MSMEG 2765	hypothetical protein	3	185.5	265.0	124.7	175.9	231.1	341.0	160.2	236.7
MSMEG _2769	MSMEG 2769	ceoB protein (trkA)	1	21.1	25.2	13.6	17.9	23.3	27.2	15.0	23.1
MSMEG _2771	MSMEG 2770	ceoB protein	1	93.6	96.7	95.0	110.8	273.2	285.4	189.3	237.6

MSMEG _2776	MSMEG 2775	1-deoxy-D-xylulose-5-phosphate synthase (dxs)	1	12.4	14.1	13.0	9.1	1.2	1.0	2.8	2.6
MSMEG _2780	MSMEG 2780	uroporphyrinogen decarboxylase (hemE)	1	50.0	54.4	16.2	24.8	51.1	44.7	85.2	88.5
MSMEG _2782	MSMEG 2782	conserved hypothetical protein	4	368.5	347.7	190.8	187.3	150.3	143.6	130.4	127.8
MSMEG _2784	MSMEG 2785	methionine-R-sulfoxide reductase (msrB)	2	28.0	18.8	33.8	38.6	49.5	38.4	59.7	55.4
MSMEG _2787	MSMEG 2788	RibD C-terminal domain	1	54.6	61.5	49.4	55.4	62.9	58.4	72.3	73.7
MSMEG _2788	MSMEG 2789	AFG1-like ATPase superfamily	1	44.0	54.5	40.4	50.8	149.5	157.3	136.7	127.6
MSMEG _2789	MSMEG 2790	acetyltransferase, GNAT family	1	16.4	0.0	7.6	8.6	12.0	0.0	9.0	14.1
MSMEG _2800	MSMEG 2802	NADH-dependent FMN reductase, putative	1	90.8	98.0	82.3	103.0	101.0	112.8	108.8	116.5
MSMEG _2839	MSMEG 2841	Predicted RNA binding protein, contains S1 domain	12	762.0	746.6	894.0	938.3	580.1	638.8	422.2	562.0
MSMEG _2897	MSMEG 2903	conserved hypothetical protein	2	19.0	20.6	13.5	11.5	15.0	17.5	22.2	19.3
MSMEG _2900	MSMEG 2908	hydrolase, alpha/beta fold family domain protein	1	17.6	14.0	16.0	14.0	11.4	13.0	3.4	3.8
MSMEG _2931	MSMEG 2941	threonyl-tRNA synthetase (thrS)	8	887.3	871.5	714.4	695.6	874.2	883.8	968.5	952.0

MSMEG _2940	MSMEG 2951	conserved hypothetical protein TIGR01033	2	381.9	374.3	319.7	331.6	141.1	126.5	75.3	93.6
MSMEG _2941	MSMEG 2952	conserved hypothetical protein	2	132.7	150.7	117.9	123.5	160.2	191.5	192.1	197.1
MSMEG _2942	MSMEG 2953	glyoxalase family protein superfamily	1	27.4	0.0	16.6	14.8	152.3	0.0	156.3	137.4
MSMEG _2956	MSMEG 2165	substrate--CoA ligase, putative	19	965.0	908.2	80.7	97.1	751.6	695.9	641.0	563.7
MSMEG _2960	MSMEG 2972	Preprotein translocase subunit, putative	3	170.9	225.2	125.0	168.4	155.4	205.9	106.2	152.8
MSMEG _2961	MSMEG 2973	protein-export membrane protein SecD (secD)	1	96.4	122.5	105.4	123.2	63.0	83.1	65.6	75.4
MSMEG _2964	MSMEG 2976	adenine phosphoribosyltransferase	3	55.1	44.3	26.3	27.3	21.4	20.6	13.6	15.1
MSMEG _2974	MSMEG 2987	peptidyl-prolyl cis-trans isomerase, cyclophilin-type	1	144.6	195.2	110.1	112.6	140.2	218.1	94.5	102.9
MSMEG _2975	MSMEG 2988	1 histidyl-tRNA synthetase (hisS)	3	354.7	354.6	267.3	255.5	312.5	297.4	379.7	381.8
MSMEG _2978	MSMEG 2990	branched-chain amino acid ABC transporter, ATP-binding protein (livF)	1	0.1	0.0	0.0	0.0	26.6	30.3	8.9	19.5
MSMEG _2982	MSMEG 2994	urea/short-chain amide ABC transporter, periplasmic urea/short-chain	9	438.1	524.3	313.2	348.1	3646.3	3677.7	3843.3	3937.1

MSMEG _2983	MSMEG 2995	conserved hypothetical protein	1	16.9	18.9	17.0	17.4	7.8	8.4	12.3	8.5
MSMEG _3003	MSMEG 3017	aspartyl-tRNA synthetase (aspS)	7	1626.8	1681.4	1147.2	1208.5	2360.2	2240.0	1571.5	1824.2
MSMEG _3004	MSMEG 3018	conserved hypothetical protein	1	22.5	24.9	12.5	16.2	13.1	14.8	7.0	8.8
MSMEG _3013	MSMEG 3027	Transcriptional regulator family	1	10.5	10.6	5.0	9.5	6.9	9.0	9.9	9.7
MSMEG _3016	MSMEG 3030	transglutaminase family protein	11	42.1	41.4	54.1	61.2	265.8	241.6	241.7	250.1
MSMEG _3019	MSMEG 3033	conserved hypothetical protein	1	26.4	31.5	24.1	22.4	62.3	67.7	59.1	54.9
MSMEG _3025	MSMEG 3039	alanyl-tRNA synthetase (alaS)	16	2115.6	2189.7	2480.7	2522.1	1221.1	1280.1	1284.6	1365.9
DNA											
MSMEG _3026	MSMEG 3040	integration/recombination/invertio n protein	1	9.3	8.7	7.0	6.3	19.7	18.9	14.7	18.4
MSMEG _3033	MSMEG 3046	3-dehydroquinate synthase (aroB)	2	161.9	160.0	104.9	116.5	242.1	285.7	161.4	169.8
MSMEG _3035	MSMEG 3049	translation elongation factor P (efp)	1	204.7	223.0	181.7	201.2	179.4	185.6	149.5	172.0
MSMEG _3045	MSMEG 3059	conserved hypothetical protein	1	18.3	18.2	20.0	31.5	25.7	26.2	11.9	19.5
MSMEG _3046	MSMEG 3060	carbamoyl-phosphate synthase, small subunit (carA)	2	453.0	547.8	392.3	493.9	327.8	354.6	324.3	349.4

MSMEG _3047	MSMEG 3061	carbamoyl-phosphate synthase, large subunit (carB)	34	1735.4	1694.8	1356.1	1368.6	2569.5	2452.5	2343.8	2287.9
MSMEG _3050	MSMEG 3063	integration host factor (mIFH)	4	684.6	708.2	771.6	757.7	588.4	607.5	690.5	644.0
MSMEG _3054	MSMEG 3065	phosphopantothenoylcysteine decarboxylase/phosphopantetheoylcysteine	1	75.3	76.7	65.4	69.1	107.1	82.4	94.4	113.3
MSMEG _3055	MSMEG 3066	S-adenosylmethionine synthetase (metK)	22	15934.0	14837.9	12951.0	11986.5	8464.1	8083.1	9320.3	8848.9
MSMEG _3058	MSMEG 3069	D-methionine-binding lipoprotein MetQ	4	186.8	192.4	595.0	541.1	279.4	281.2	268.2	255.1
MSMEG _3066	MSMEG 3077	ribulose-phosphate 3-epimerase (rpe)	1	76.2	78.3	66.1	66.3	112.7	120.0	104.9	114.6
MSMEG _3070	MSMEG 3080	lipoprotein, 27 kDa	4	723.2	733.9	484.6	497.3	787.2	769.2	682.8	651.2
MSMEG _3071	MSMEG 3081	riboflavin synthase, alpha subunit (ribE)	3	125.4	115.2	101.6	94.4	92.1	71.0	57.0	60.2
MSMEG _3072	MSMEG 3082	3,4-dihydroxy-2,5-dihydrofuran-2,5-dione	5	472.6	462.6	420.5	425.5	221.1	263.6	196.8	245.2
MSMEG _3073	MSMEG 3083	6,7-dimethyl-8-ribityllumazine synthase (ribE)	6	614.3	644.5	405.5	449.5	756.3	784.0	633.5	660.4
MSMEG _3081	MSMEG 3090	Uncharacterized BCR, COG1481	2	216.5	213.5	117.8	115.3	316.8	403.0	199.3	200.8
MSMEG _3084	MSMEG 3093	glyceraldehyde-3-phosphate dehydrogenase, type I (gap)	20	23839.1	23167.3	17589.7	18172.6	30114.8	28999.0	26785.4	27859.8

MSMEG	MSMEG										
_3085	3094	phosphoglycerate kinase (pgk)	17	7334.3	7169.7	6312.7	6158.5	7285.9	7090.7	7836.6	7385.0
MSMEG	MSMEG										
_3086	3095	triosephosphate isomerase (tpiA)	14	2053.3	2140.4	2092.5	2038.8	2594.7	2613.9	2678.3	2592.3
MSMEG	MSMEG	phosphoenolpyruvate carboxylase									
_3097	3107	(ppc)	7	325.4	349.2	300.2	380.8	534.4	513.1	639.2	622.1
MSMEG	MSMEG										
_3099	3109	6-phosphogluconolactonase (pgl)	3	308.3	283.2	257.9	257.7	1203.9	1182.3	1358.1	1333.7
MSMEG	MSMEG										
_3100	3110	opcA protein (opcA)	1	126.3	137.6	66.8	81.2	214.9	209.4	78.9	101.4
MSMEG	MSMEG	glucose-6-phosphate 1-									
_3101	3111	dehydrogenase (zwf)	3	207.8	186.7	212.6	204.2	152.7	175.5	159.3	176.7
MSMEG	MSMEG										
_3102	3112	transaldolase (tal)	11	4289.7	4076.3	4154.3	3744.0	2872.4	2764.4	3089.9	2850.9
MSMEG	MSMEG										
_3103	3113	transketolase (tkt)	35	11537.0	11624.4	9263.4	9301.0	11329.9	11298.6	10124.2	10212.8
MSMEG	MSMEG										
_3106	3115	quinone oxidoreductase CC3759	7	2993.3	2911.5	1338.9	1384.7	3030.7	2897.0	2177.0	2258.1
MSMEG	MSMEG										
_3122	3131	Pps1 sans inteine	1	68.2	58.0	51.6	61.3	6.1	2.6	5.0	4.7
MSMEG	MSMEG										
_3124	3133	MW07	3	301.6	293.7	368.0	335.5	170.1	195.2	226.7	230.9
MSMEG	MSMEG										
_3127	3136	mrp protein homolog	2	60.8	59.5	64.3	65.7	37.8	34.7	42.7	45.5
MSMEG	MSMEG	transcriptional regulator, TetR									
_3142	3149	family domain protein	1	14.2	13.0	5.3	3.7	14.6	16.2	17.1	15.3
MSMEG	MSMEG										
_3143	3151	acn (acn)	20	9235.6	10268.2	4569.6	4720.7	4895.7	5198.7	4810.3	4951.8
MSMEG	MSMEG										
_3147	3155	ATPase, MoxR family (moxR)	4	1468.7	1282.4	1173.9	1066.1	1265.4	1088.9	1384.7	1361.0

MSMEG _3150	MSMEG 3158	hypothetical protein	6	1907.2	1980.4	1893.1	1764.7	1930.0	1917.9	1869.2	1771.3
MSMEG _3151	MSMEG 3159	enoyl-(acyl-carrier-protein) reductase (NADH)	7	1865.1	1864.3	2213.9	2049.5	1452.6	1487.2	1861.7	1674.8
MSMEG _3155	MSMEG 3163	Membrane protease subunits, stomatin/prohibitin homologs	2	75.8	64.3	99.3	94.9	192.4	230.9	157.1	145.7
MSMEG _3158	MSMEG 3166	methylmalonyl-CoA mutase, small subunit (mutA)	7	342.7	354.8	842.8	764.9	959.6	833.6	752.1	711.4
MSMEG _3159	MSMEG 3167	Methylmalonyl-CoA mutase, N- terminal domain/subunit (mutA)	18	1513.7	1663.6	2696.4	2775.3	2870.4	2935.1	2349.7	2411.6
MSMEG _3160	MSMEG 3168	LAO/AO transport system ATPase	1	3.8	3.3	5.4	4.4	1.6	2.4	2.7	1.8
MSMEG _3169	MSMEG 3176	isoleucyl-tRNA synthetase (ileS)	15	605.9	642.9	540.6	574.8	534.1	580.8	430.7	517.4
MSMEG _3178	MSMEG 3185	DNA polymerase III, alpha subunit (dnaE)	3	46.5	44.1	32.9	36.8	44.7	42.1	72.9	66.5
MSMEG _3183	MSMEG 3190	threonine dehydratase, biosynthetic (ilvA)	2	303.5	286.3	218.1	250.4	264.8	288.3	173.3	243.5
MSMEG _3185	MSMEG 3193	glycosyl hydrolase, family 13 (treY)	2	32.3	39.2	32.3	21.9	18.5	22.3	32.0	20.6
MSMEG _3204	MSMEG 3214	conserved hypothetical protein	3	11.2	13.5	7.6	11.6	32.0	31.2	25.9	33.9

MSMEG _3205	MSMEG 3215	histidinol dehydrogenase (hisD)	1	40.8	33.9	53.1	41.8	30.6	28.2	57.2	48.0
MSMEG _3208	MSMEG 3218	imidazole glycerol phosphate synthase, glutamine amidotransferase sub	1	28.4	38.9	18.6	21.0	39.2	30.0	44.1	45.5
MSMEG _3209	MSMEG 3219	bifunctional HisA/TrpF protein	6	455.6	488.8	457.0	468.3	314.1	339.8	304.5	346.7
MSMEG _3210	MSMEG 3220	inositol monophosphatase family protein	1	14.0	15.0	8.4	9.3	24.0	33.1	20.1	30.9
MSMEG _3211	MSMEG 3221	imidazoleglycerol phosphate synthase, cyclase subunit (hisF)	1	9.8	9.4	8.4	11.5	8.8	10.6	7.9	11.7
MSMEG _3215	MSMEG 3225	ABC transporter, ATP-binding protein	2	392.2	416.4	178.8	186.9	161.4	175.4	222.2	206.9
MSMEG _3219	MSMEG 3229	indole-3-glycerol phosphate synthase (trpC)	5	386.5	422.3	504.7	504.9	51.0	64.8	49.1	68.3
MSMEG _3220	MSMEG 3230	tryptophan synthase, beta subunit (trpB)	3	55.4	53.4	40.2	54.7	138.0	145.0	182.2	195.2
MSMEG _3221	MSMEG 3231	tryptophan synthase, alpha subunit (trpA)	1	122.8	110.8	116.6	112.3	156.8	139.5	177.2	166.6
MSMEG _3222	MSMEG 3232	Igt (Igt)	3	46.6	44.3	28.3	31.9	46.5	50.7	25.7	38.4
MSMEG _3225	MSMEG 3235	glutamate synthase, large subunit	18	376.9	394.1	183.9	210.8	925.7	912.5	1245.7	1161.2

MSMEG _3227	MSMEG 3237	pyruvate kinase (pyk)	15	4777.7	4707.9	5243.4	5369.9	7627.2	7824.2	8471.8	8030.5
MSMEG _3234	MSMEG 3244	conserved hypothetical protein	1	2.8	3.2	3.6	4.6	13.5	14.6	14.8	13.2
MSMEG _3235	MSMEG 3245	glutamine ABC transporter, periplasmic glutamine-binding protein (gln)	8	3004.0	3192.6	3888.8	4046.4	4849.7	5000.7	4213.8	4387.4
MSMEG _3244	MSMEG 3254	hypothetical protein	1	17.8	21.4	21.6	39.7	64.4	61.4	60.3	47.2
MSMEG _3246	MSMEG 3257	response regulator	6	496.2	523.0	462.9	431.1	809.4	872.6	750.2	788.7
MSMEG _3247	MSMEG 3258	branched-chain amino acid ABC transporter, periplasmic amino acid-bin	14	2999.8	2998.5	5766.5	5820.5	7886.7	8031.3	9444.4	9871.1
MSMEG _3253	MSMEG 3264	conserved hypothetical protein	5	666.1	738.6	611.2	659.8	990.1	1029.6	965.4	1017.7
MSMEG _3255	MSMEG 3266	Tat (twin-arginine translocation) pathway signal sequence domain prot	2	122.3	148.6	71.5	72.7	357.0	381.3	318.0	351.3
MSMEG _3257	MSMEG 3269	xylulokinase (xylB)	3	740.3	740.2	544.5	582.1	486.0	537.9	383.0	438.0
MSMEG _3278	MSMEG 3290	hypothetical protein	3	54.2	54.5	60.1	58.2	80.0	80.8	71.6	71.7
MSMEG _3280	MSMEG 3293	Bacterial extracellular solute- binding protein domain protein	4	170.3	162.7	193.5	204.4	487.7	493.8	277.5	368.1

MSMEG _3284	MSMEG 3296	transcriptional regulator, MarR family	1	19.7	23.2	12.9	16.2	50.7	61.6	38.9	53.0
MSMEG _3287	MSMEG 3299	ephB (ephA)	2	82.5	90.7	112.1	129.3	90.4	103.4	79.8	101.1
MSMEG _3309	MSMEG 3318	pyridoxal-phosphate dependent TrpB-like enzyme	1	232.7	176.4	158.6	221.6	116.4	77.3	158.3	223.6
MSMEG _3379	MSMEG 3385	oxidoreductase, short chain dehydrogenase/reductase family	1	30.5	32.5	20.7	20.3	33.7	33.2	21.3	25.3
MSMEG _3380	MSMEG 3387	conserved hypothetical protein	1	163.2	180.8	114.3	131.9	144.1	149.0	234.2	219.2
MSMEG _3381	MSMEG 3388	acyl carrier protein phosphodiesterase	1	175.1	182.1	117.0	126.9	214.8	216.9	269.6	281.0
MSMEG _3394	MSMEG 3400	cupin domain protein	1	11.7	9.4	13.8	17.8	3.3	4.9	1.6	3.6
MSMEG _3434	MSMEG 3442	putative FK-506 binding protein, peptidyl-prolyl cis-trans isomerase	1	91.1	85.6	109.5	114.2	36.5	45.9	74.4	82.8
MSMEG _3461	MSMEG 3467	catalase/peroxidase HPI (katG)	23	2658.2	2565.4	2620.8	2810.2	6105.1	5786.4	6293.2	6306.4
MSMEG _3465	MSMEG 3471	acyl-CoA synthase (fadD28)	1	1623.0	1669.7	978.8	993.6	92.2	71.0	55.5	65.0
MSMEG _3478	MSMEG 3483	transcriptional regulator, putative	4	176.2	162.1	133.9	127.5	145.0	147.7	127.8	134.2
MSMEG _3479	MSMEG 3484	thiol peroxidase (tpx)	13	3661.3	4011.8	5089.5	5512.1	4580.6	5057.5	5365.7	5285.5

MSMEG _3489	MSMEG 3494	GDSL-like Lipase/Acylhydrolase, putative	2	23.5	5.2	22.3	24.8	181.5	6.8	160.1	148.7
MSMEG _3500	MSMEG 3504	Uncharacterized BCR	2	12.3	10.2	22.4	23.5	6.0	7.2	9.5	11.4
MSMEG _3505	MSMEG 3509	6-aminohexanoate-cyclic-dimer hydrolase (nyIA)	1	210.2	202.9	74.4	80.4	247.8	255.1	171.9	175.2
MSMEG _3507	MSMEG 3511	Fructose-bisphosphate aldolase class-I	14	4026.5	4267.4	4766.6	4753.6	4723.7	4877.0	3205.0	3202.2
MSMEG _3512	MSMEG 3516	competence/damage-inducible protein CinA	1	93.9	86.8	121.9	79.4	98.9	85.5	133.3	110.6
MSMEG _3515	MSMEG 3518	oxidoreductase, short-chain dehydrogenase/reductase family (fabG3)	1	57.1	67.0	40.9	56.2	43.7	60.5	41.7	44.9
MSMEG _3564	MSMEG 3564	bacterioferritin (bfr)	11	837.2	894.7	1822.0	1890.7	4388.5	4579.8	4337.3	4209.4
MSMEG _3569	MSMEG 3569	conserved hypothetical protein	1	11.9	11.6	6.8	6.8	4.4	3.4	4.9	6.1
MSMEG _3574	MSMEG 3574	TPR Domain domain protein	2	159.9	159.8	183.8	174.0	104.5	108.8	108.5	110.4
MSMEG _3575	MSMEG 3576	yfhC protein VC0864	1	71.1	74.8	74.6	64.4	90.3	94.1	95.5	92.4
MSMEG _3580	MSMEG 3581	esterase, putative, antigen 85-C	3	473.7	441.2	300.8	291.0	35.5	30.0	29.1	34.1
MSMEG _3595	MSMEG 3599	hypothetical protein	1	12.0	7.9	7.2	8.9	9.4	5.3	9.2	10.2
MSMEG _3596	MSMEG 3600	hypothetical protein	4	46.1	49.1	32.8	39.9	56.5	62.0	50.3	56.4

MSMEG _3598	MSMEG 3602	sugar-binding transcriptional regulator, LacI family	1	110.4	96.2	147.3	130.4	173.8	176.1	167.4	157.8
MSMEG _3609	MSMEG 3614	Luciferase-like monooxygenase superfamily	1	27.6	29.3	28.9	26.5	41.3	41.0	79.9	88.4
MSMEG _3618	MSMEG 3624	hypothetical protein	2	1119.4	1096.9	724.9	784.7	1308.8	1337.4	1018.8	1240.4
MSMEG _3619	MSMEG 3625	oxidoreductase, short chain dehydrogenase/reductase family superfamil	2	324.6	331.0	260.0	283.8	90.0	102.9	127.6	127.2
MSMEG _3620	MSMEG 3626	Luciferase-like monooxygenase superfamily	8	1946.8	2043.9	989.8	1037.0	1326.0	1458.7	796.8	914.8
MSMEG _3621	MSMEG 3627	NADH dehydrogenase (ndh)	2	47.0	46.3	57.2	58.0	38.7	36.9	44.7	55.5
MSMEG _3623	MSMEG 3628	urease accessory protein UreG (ureG)	1	223.3	239.4	391.1	310.8	328.9	344.4	434.5	418.4
MSMEG _3625	MSMEG 3631	urease, alpha subunit (ureC)	6	376.1	349.0	257.4	272.7	713.0	724.1	380.7	368.4
MSMEG _3627	MSMEG 3633	urease, gamma subunit (ureA)	1	4.2	5.5	8.6	7.5	10.1	9.3	16.9	16.5
MSMEG _3628	MSMEG 3634	ComA2 protein, putative	2	117.6	114.2	89.3	100.2	89.5	79.0	80.8	85.8
MSMEG _3632	MSMEG 3638	6-phosphogluconate dehydrogenase, decarboxylating (gnd)	10	2145.9	2026.0	2447.9	2157.4	3292.2	3321.0	3472.3	3193.0

MSMEG _3634	MSMEG 3639	IMP dehydrogenase family protein	5	690.5	634.4	511.4	481.8	473.7	477.6	652.2	579.6
MSMEG _3640	MSMEG 3646	malate synthase G (glcB)	19	5180.1	5406.0	3809.9	3688.9	2737.0	2702.0	2926.6	2744.0
MSMEG _3642	MSMEG 3648	glycine dehydrogenase (gcvP)	17	2286.0	2194.4	4507.4	4192.3	2241.2	2157.4	2501.3	2362.9
MSMEG _3647	MSMEG 3653	FHA-domain-containing proteins	4	886.3	960.7	741.0	760.1	1178.4	1183.2	1358.1	1386.7
MSMEG _3648	MSMEG 3654	glycine cleavage system H protein (gcvH)	2	752.1	878.4	674.3	748.9	913.8	1024.4	861.4	870.6
MSMEG _3654	MSMEG 3660	preprotein translocase, SecA subunit (ATPase, RNAhelic)	7	423.3	414.9	383.5	391.4	501.6	489.6	606.1	626.2
MSMEG _3673	MSMEG 3679	4-alpha-glucanotransferase (malQ)	1	16.1	20.8	26.9	20.0	47.0	56.6	50.7	49.2
MSMEG _3710	MSMEG 3716	cytochrome b561, putative	1	14.1	0.0	0.9	2.1	4.2	0.0	1.1	1.4
MSMEG _3715	MSMEG 3722	non-ribosomal peptide synthetase	1	29.7	29.2	21.4	22.6	64.0	69.8	49.4	50.5
MSMEG _3740	MSMEG 3746	ribosomal large subunit pseudouridine synthase B (rluB)	2	130.7	147.7	158.9	154.3	164.2	171.5	165.4	176.6
MSMEG _3745	MSMEG 3751	MutT/nudix family protein	1	66.4	73.5	35.7	23.7	47.1	54.0	27.5	6.0
MSMEG _3746	MSMEG 3752	CTP synthase (pyrG)	10	648.7	655.5	769.9	717.6	2225.1	2219.2	2263.1	2098.2

MSMEG _3754	MSMEG 3760	conserved hypothetical protein	1	60.5	61.5	41.6	51.3	55.1	42.9	20.5	29.3
MSMEG _3758	MSMEG 3764	tyrosyl-tRNA synthetase (tyrS)	2	76.2	85.3	62.9	60.4	143.8	143.4	194.6	181.5
MSMEG _3767	MSMEG 3773	poly-beta-hydroxybutyrate polymerase/very long chain acyl-CoA dehydro	6	127.3	144.4	98.8	116.3	275.0	281.8	240.3	257.0
MSMEG _3770	MSMEG 3776	argininosuccinate synthase (argG)	7	3020.4	3092.0	2663.7	2729.4	886.2	985.2	942.1	993.0
MSMEG _3773	MSMEG 3779	acetylornithine aminotransferase	1	35.9	18.2	27.2	31.7	12.2	10.9	21.4	27.5
MSMEG _3775	MSMEG 3781	arginine biosynthesis bifunctional protein ArgJ (argJ)	4	588.4	699.7	552.9	585.4	318.8	345.3	301.4	324.7
MSMEG _3776	MSMEG 3782	N-acetyl-gamma-glutamyl-phosphate reductase (argC)	1	19.0	20.7	8.9	6.2	86.1	96.1	62.6	111.9
MSMEG _3777	MSMEG 3783	phenylalanyl-tRNA synthetase, beta subunit (pheT)	14	2247.7	2347.4	2516.4	2437.9	2043.8	2170.3	2480.6	2559.6
MSMEG _3778	MSMEG 3784	phenylalanyl-tRNA synthetase, alpha subunit (pheS)	1	33.4	36.9	22.2	28.4	18.2	21.0	25.5	8.1
MSMEG _3791	MSMEG 3797	ribosomal protein L20 (rltT)	5	902.3	884.8	807.2	917.3	595.9	576.3	556.6	583.0
MSMEG _3793	MSMEG 3799	translation initiation factor IF-3 (infC)	4	852.7	879.6	1064.1	1046.1	4362.8	4921.7	4523.2	4833.0

MSMEG _3808	MSMEG 3814	excinuclease ABC, A subunit (uvrA)	4	205.6	197.2	215.1	178.3	431.5	379.9	469.7	444.3
MSMEG _3810	MSMEG 3815	metallo-beta-lactamase superfamily protein	3	154.2	174.3	230.8	270.8	150.1	151.8	163.5	180.6
MSMEG _3811	MSMEG 3816	universal stress protein family domain protein	11	4651.0	5750.7	2128.5	2221.2	4640.6	5545.3	4298.2	4284.6
MSMEG _3816	MSMEG 3820	excinuclease ABC, B subunit (uvrB)	1	6.5	8.0	13.0	11.0	34.8	30.4	61.4	39.2
MSMEG _3831	MSMEG 3837	dephospho-CoA kinase, putative	1	10.0	7.8	7.7	6.0	7.1	5.4	6.7	5.0
MSMEG _3833	MSMEG 3838	rpsA (rpsA)	18	8923.2	8541.4	8540.4	7728.0	8084.7	7790.2	6975.7	6900.7
MSMEG _3839	MSMEG 3843	DNA polymerase I (polA)	13	1344.4	1327.0	1402.9	1237.9	1552.7	1594.0	1863.2	1647.2
MSMEG _3859	MSMEG 3862	apolipoprotein n-acyltransferase Lnt/dolichol-phosphate-mannosyl tra	1	16.9	19.6	15.6	15.1	33.8	35.6	19.4	16.7
MSMEG _3863	MSMEG 3866	conserved hypothetical protein	2	12.4	9.2	15.9	15.1	19.3	14.1	27.2	24.2
MSMEG _3864	MSMEG 3867	cobalamin biosynthesis protein N	6	167.7	160.0	105.4	111.4	117.2	128.8	107.4	110.7
MSMEG _3872	MSMEG 3875	precorrin-8X methylmutase	1	20.1	21.7	35.2	37.3	50.8	51.4	58.1	61.3
MSMEG _3881	MSMEG 3884	proline dipeptidase (pepQ)	2	304.6	233.3	247.4	248.2	344.2	298.0	379.3	384.2
MSMEG _3889	MSMEG 3893	repressor protein, putative	1	17.6	19.2	4.8	6.7	4.6	7.0	0.4	2.4

MSMEG _3895	MSMEG 3899	proteasome beta subunit	5	939.7	929.2	544.8	554.8	672.0	627.5	633.3	670.3
MSMEG _3897	MSMEG 3901	Putative proteasome component family	2	226.8	231.9	214.3	231.6	303.6	323.1	262.1	308.6
MSMEG _3902	MSMEG 3906	COG0464:ATPases of the AAA+ class	12	1888.0	1981.4	1636.4	1636.6	926.1	970.1	811.1	854.1
MSMEG _3906	MSMEG 3910	conserved hypothetical protein	2	59.8	50.9	94.7	93.7	89.0	89.9	104.3	99.1
MSMEG _3918	MSMEG 3923	hypothetical protein	1	6.7	6.9	10.6	16.7	75.7	77.1	64.2	81.0
MSMEG _3932	MSMEG 3937	heat shock protein, Hsp20 family (hsp)	1	168.0	149.7	10.8	13.7	3.9	3.7	3.5	4.6
MSMEG _3945	MSMEG 3950	universal stress protein	5	373.7	377.8	75.7	84.3	33.5	33.2	40.0	49.2
MSMEG _3950	MSMEG 3957	universal stress protein	5	1721.1	1750.7	572.7	584.0	152.7	144.3	146.0	143.0
MSMEG _3962	MSMEG 3970	lactate 2-monoxygenase	8	520.5	558.5	2994.6	3004.6	2952.5	2966.4	3174.4	2997.8
MSMEG _3980	MSMEG 3987	transcriptional regulator, GntR family	1	10.7	12.9	8.0	10.4	13.7	10.5	8.5	8.5
MSMEG _4042	MSMEG 4047	transcriptional regulator, GntR family, putative	2	106.7	104.6	140.9	116.9	150.0	143.0	131.3	155.1
MSMEG _4075	MSMEG 4082	blr3446	1	1.8	2.1	10.8	12.1	46.5	29.2	64.3	61.0
MSMEG _4125	MSMEG 4132	oxidoreductase, short-chain dehydrogenase/reductase family, putative	1	28.5	27.3	39.2	34.0	16.1	12.0	19.9	18.9

MSMEG _4180	MSMEG 4185	ATP phosphoribosyltransferase (hisG)	2	124.3	137.4	111.3	116.3	99.7	101.1	98.8	108.1
MSMEG _4185	MSMEG 4189	5-methyltetrahydrofolate--homocysteine methyltransferase (metH)	10	322.7	307.7	310.5	305.8	503.8	314.5	143.0	149.9
MSMEG _4188	MSMEG 4192	oxidoreductase, short-chain dehydrogenase/reductase family	3	82.4	77.9	77.7	79.3	123.8	119.0	92.0	112.7
MSMEG _4189	MSMEG 4193	cysteinyl-tRNA synthetase (cysS)	2	367.4	397.0	246.5	263.1	183.3	207.1	161.7	184.3
MSMEG _4193	MSMEG 4198	alpha-ribazole-5-phosphate phosphatase	2	99.9	90.8	66.8	64.3	107.3	78.4	84.6	90.7
MSMEG _4199	MSMEG 4204	conserved hypothetical protein TIGR00481	3	145.4	145.4	115.5	111.1	204.8	209.9	177.9	201.8
MSMEG _4205	MSMEG 4210	transcriptional regulator, LuxR family domain protein	1	60.5	64.0	35.6	37.5	90.9	100.8	71.3	81.1
MSMEG _4207	MSMEG 4213	universal stress protein family, putative	4	40.1	45.5	32.5	42.8	1020.8	1082.7	1019.5	982.9
MSMEG _4208	MSMEG 4214	COG3333:Uncharacterized BCR	1	36.9	39.0	6.2	29.1	83.3	129.4	18.7	77.7
MSMEG _4210	MSMEG 4216	Uncharacterized BCR	16	366.8	412.1	343.1	393.3	4426.2	4495.8	3840.4	3965.2
MSMEG _4217	MSMEG 4223	cell division protein DivIVA	7	788.7	742.0	749.3	794.1	1253.5	1151.2	1061.7	1215.5

MSMEG	MSMEG										
_4222	4228	cell division protein FtsZ (ftsZ)	3	176.4	177.4	109.8	99.4	330.0	331.6	320.4	338.0
MSMEG	MSMEG										
_4237	4241	SEQ ID NO 45F	1	27.3	28.2	14.5	19.6	12.6	15.6	12.1	16.6
MSMEG	MSMEG										
_4240	4244	idsA2 (idsA2)	5	601.9	619.1	464.0	470.5	580.9	599.4	496.4	527.3
MSMEG	MSMEG	3-deoxy-7-phosphoheptulonate									
_4244	4247	synthase	1	364.5	351.8	327.3	331.6	262.4	271.1	276.4	284.2
MSMEG	MSMEG										
_4251	4254	conserved hypothetical protein	1	16.6	20.7	16.9	11.6	22.2	28.1	28.3	21.4
MSMEG	MSMEG	long-chain-fatty-acid--CoA ligase									
_4254	4256	(fadD-2)	8	1285.1	1205.3	873.7	910.1	1190.5	1085.6	941.4	913.3
MSMEG	MSMEG	anthranilate									
_4258	4262	phosphoribosyltransferase (trpD)	3	695.0	663.3	555.4	507.3	469.3	485.7	579.5	525.0
MSMEG	MSMEG										
_4262	4265	Rieske Fe-S Protein	5	908.0	782.5	921.1	1042.3	542.3	389.3	690.3	548.8
MSMEG	MSMEG										
_4263	4266	cytochrome B6, putative	2	47.7	44.7	69.4	61.3	45.3	41.6	84.2	73.7
MSMEG	MSMEG	cytochrome c oxidase, subunit II,									
_4268	4271	putative	1	98.6	103.3	41.7	40.9	26.7	30.9	44.4	53.2
MSMEG	MSMEG	asparagine synthase (glutamine-									
_4269	4272	hydrolyzing)	4	214.8	223.8	218.7	163.0	238.1	237.9	365.0	280.5
MSMEG	MSMEG										
_4270	4273	probable carbohydrate kinase	5	1511.7	1489.3	1781.7	1745.2	959.9	986.0	915.8	943.1
MSMEG	MSMEG										
_4272	4275	HesB/YadR/YfhF family protein	4	175.1	177.7	112.5	117.8	14.9	25.7	13.7	15.6
MSMEG	MSMEG										
_4273	4276	conserved hypothetical protein	1	13.7	17.2	13.1	17.2	7.8	10.0	6.7	10.2

MSMEG _4276	MSMEG 4280	branched-chain amino acid aminotransferase (ilvE)	6	1193.8	1082.0	853.4	796.0	1322.9	1257.6	1184.6	1231.3
MSMEG _4278	MSMEG 4281	glycine cleavage system T protein (gcvT)	4	719.8	657.4	360.1	340.1	700.9	727.6	492.6	554.9
MSMEG _4281	MSMEG 4283	cytosol aminopeptidase (pepA)	12	4788.3	4610.7	1886.3	1860.5	1896.6	1785.6	2010.9	2081.0
2-oxo acid dehydrogenases											
MSMEG _4283	MSMEG 4286	acyltransferase (catalytic domain) protein	19	5757.5	5669.6	6353.9	6768.9	8815.4	8503.2	10561.4	10900.3
MSMEG _4287	MSMEG 4290	conserved hypothetical protein	1	47.5	43.4	72.9	75.7	29.1	17.6	31.3	38.1
MSMEG _4288	MSMEG 4292	conserved hypothetical protein	1	13.7	15.4	14.6	20.8	6.3	7.0	2.6	7.6
MSMEG _4290	MSMEG 4293	glutamine synthetase, type I (glnA)	24	11712.2	11947.1	8646.5	8716.8	38488.9	39697.5	36050.3	35924.0
MSMEG _4291	MSMEG 4294	D-tyrosyl-tRNA(Tyr) deacylase (dtd)	1	29.1	12.0	21.8	23.9	48.0	16.2	37.2	39.8
MSMEG _4293	MSMEG 4296	glutamate-ammonia-ligase adenylyltransferase, putative	1	16.8	27.8	16.3	22.5	84.5	100.6	84.2	92.7
MSMEG _4294	MSMEG 4297	glutamine synthetase, type I (glnA)	4	464.1	475.3	559.1	576.9	1064.6	1098.4	1230.5	1276.1

MSMEG _4298	MSMEG 4301	3-methyl-2-oxobutanoate hydroxymethyltransferase (panB)	9	5011.7	4740.7	19350.9	20231.2	252.0	258.9	371.7	289.5
MSMEG _4299	MSMEG 4302	enoyl-CoA hydratase/isomerase PhaB (b1394)	2	211.1	221.6	158.5	175.8	63.6	64.5	54.4	60.6
MSMEG _4301	MSMEG 4304	acyl-CoA synthase (fadD28)	3	344.9	342.9	336.5	328.1	187.6	211.8	129.8	154.1
MSMEG _4302	MSMEG 4305	Adenylate cyclase, putative	1	124.6	127.3	94.1	111.1	182.0	190.6	183.4	206.3
MSMEG _4306	MSMEG 4311	Uncharacterized ACR, COG1579 superfamily	2	54.0	57.7	77.4	76.7	65.4	68.7	73.1	74.7
MSMEG _4313	MSMEG 4318	fosfomycin resistance protein fosB, putative	6	1100.5	1090.6	899.4	936.9	882.9	887.0	887.3	877.8
MSMEG _4320	MSMEG 4325	bacterioferritin comigratory protein, ahpC/TSA family (ahpE)	2	50.7	33.5	40.9	45.0	127.8	37.0	69.2	79.0
MSMEG _4321	MSMEG 4326	conserved hypothetical protein	1	36.8	43.2	29.7	35.8	60.9	73.2	62.1	74.1
MSMEG _4323	MSMEG 4328	pyruvate dehydrogenase E1 component (aceE)	18	4139.1	4358.0	3426.9	3641.9	5655.4	5782.0	5518.8	5912.3
MSMEG _4325	MSMEG 4330	malonyl CoA-acyl carrier protein transacylase (fabD)	4	589.4	613.8	658.9	615.1	505.1	515.6	636.8	583.7

MSMEG	MSMEG										
_4326	4331	acyl carrier protein (acpP)	4	1008.4	1065.7	1038.4	1118.1	1144.2	1241.7	1392.0	1390.7
MSMEG	MSMEG										
_4328	4334	3-oxoacyl- synthase (kasB)	6	1817.2	1959.8	1642.6	1644.6	1853.6	1847.3	1914.9	1916.9
		methylmalonyl-CoA									
MSMEG	MSMEG	decarboxylase, subunit alpha									
_4329	4335	(mmdA)	4	340.7	314.3	478.4	435.4	413.2	385.7	417.4	492.4
MSMEG	MSMEG										
_4330	4336	short chain dehydrogenase	1	3.7	3.4	6.3	4.9	7.5	5.4	8.0	5.3
MSMEG	MSMEG										
_4337	4343	conserved hypothetical protein	2	321.3	336.6	292.1	307.4	150.3	149.4	179.6	190.0
MSMEG	MSMEG										
_4340	4346	adhE2 (adhE2)	8	1545.7	1444.3	1134.3	987.4	1395.6	1280.6	1608.9	1346.0
MSMEG	MSMEG	metallo-beta-lactamase family									
_4342	4347	protein	1	184.7	235.7	99.3	98.2	189.5	190.2	268.0	237.7
MSMEG	MSMEG										
_4358	4364	short chain dehydrogenase	1	28.3	34.3	28.6	37.6	48.5	113.3	54.3	53.1
MSMEG	MSMEG	universal stress protein family									
_4362	4368	domain protein	2	60.1	66.2	59.3	58.4	99.1	99.2	92.1	92.5
MSMEG	MSMEG										
_4367	4372	formamidase	3	518.0	508.2	248.6	310.2	1496.7	1554.7	1181.3	1292.1
MSMEG	MSMEG										
_4381	4385	AMIDASE	1	18.2	19.8	6.3	7.0	58.4	67.4	31.9	53.3
MSMEG	MSMEG	isochorismatase family protein									
_4396	4399	family	7	1556.9	1613.5	1724.9	1791.9	1121.8	1095.3	1234.1	1360.1
MSMEG	MSMEG	phosphoglycolate phosphatase,									
_4401	4404	putative	5	852.7	866.8	581.7	619.6	558.4	599.6	487.5	526.0
MSMEG	MSMEG	low-specificity L-threonine									
_4454	4449	aldolase	1	24.5	28.7	1.3	3.3	0.1	1.0	0.9	0.2

MSMEG _4463	MSMEG 4458	conserved hypothetical protein	2	21.7	22.5	10.5	10.8	13.1	13.6	8.4	10.9
MSMEG _4471	MSMEG 4466	transcriptional regulator, MarR family	1	38.4	45.4	28.9	34.0	73.8	83.8	58.0	59.5
MSMEG _4474	MSMEG 4469	acyl-CoA oxidase homolog (protein for MGC:9)	9	1112.1	1058.7	940.6	796.6	1112.0	1076.7	1363.4	1156.3
MSMEG _4475	MSMEG 4470	conserved hypothetical protein	1	11.8	8.5	6.0	8.4	15.9	13.0	12.5	16.3
MSMEG _4476	MSMEG 4471	hypothetical protein	1	19.2	0.0	15.6	17.0	15.7	0.0	8.6	5.6
MSMEG _4485	MSMEG 4480	glycyl-tRNA synthetase (glyS)	5	694.3	726.9	538.1	468.1	516.4	583.2	477.4	487.5
MSMEG _4486	MSMEG 4481	transcriptional regulator (smtB)	2	25.7	26.4	31.2	29.4	11.1	11.9	16.4	16.8
MSMEG _4487	MSMEG 4482	furB (furB)	1	453.1	513.7	392.8	402.7	37.8	43.3	36.7	35.0
MSMEG _4489	MSMEG 4484	conserved hypothetical protein	1	28.4	33.5	35.5	35.8	58.8	56.4	63.9	56.6
MSMEG _4490	MSMEG 4485	undecaprenyl diphosphate synthase (uppS)	1	27.4	27.6	25.7	21.7	30.0	24.1	10.2	8.7
MSMEG _4527	MSMEG 4520	nitrite reductase (nirA)	4	402.5	426.5	193.3	204.1	240.0	237.6	124.2	133.9
MSMEG _4528	MSMEG 4521	phosphoadenylyl-sulfate reductase (cysH)	2	170.1	192.4	123.0	123.4	60.2	58.3	66.4	72.9
MSMEG _4533	MSMEG 4526	subl (subl)	8	2169.4	2352.7	1875.1	1806.2	1589.4	1687.5	1406.1	1552.7
MSMEG _4535	MSMEG 4528	glycosyl hydrolase, family 15	19	1939.8	1983.1	1736.5	1692.6	3300.2	3278.2	3363.9	3127.2

MSMEG _4553	MSMEG 4547	GGDEF family protein VCA0785	2	96.9	105.2	96.3	100.5	98.3	102.1	85.9	80.1
MSMEG _4569	MSMEG 4566	conserved hypothetical protein	1	12.7	13.6	8.1	6.5	49.3	51.7	33.2	35.2
MSMEG _4570	MSMEG 4567	u1937b; B1937_F1_4	1	100.0	102.4	99.2	153.1	163.6	181.3	95.1	224.3
MSMEG _4571	MSMEG 4568	ribosomal protein S20 (rpsT)	1	138.4	131.5	279.5	262.8	43.9	45.1	97.2	96.9
MSMEG _4617	MSMEG 4609	glutamine-dependent NAD+ synthetase (nadE)	4	420.6	404.0	432.7	312.2	1828.0	1874.4	1411.5	1649.9
MSMEG _4624	MSMEG 4616	ribosomal protein L27 (rpmA)	4	932.4	942.4	855.6	943.4	391.5	391.4	398.2	406.0
MSMEG _4625	MSMEG 4617	ribosomal protein L21 (rplU)	4	1094.3	1000.5	1353.3	1453.6	807.0	724.8	742.9	810.1
MSMEG _4626	MSMEG 4618	rne (rne)	9	346.7	350.3	292.8	280.6	261.8	278.1	272.4	279.4
MSMEG _4627	MSMEG 4619	nucleoside diphosphate kinase (ndk)	3	1118.1	1140.2	954.8	993.1	629.2	626.6	745.9	684.0
MSMEG _4630	MSMEG 4622	valyl-tRNA synthetase (valS)	12	1845.3	1850.3	1603.6	1548.4	1146.7	1212.4	1327.4	1352.9
MSMEG _4636	MSMEG 4627	hypothetical protein	1	0.3	0.0	0.0	0.1	309.1	0.0	297.9	321.0
MSMEG _4645	MSMEG 4636	alpha oxoglutarate ferredoxin oxidoreductase, beta subunit (orB)	4	737.6	719.1	987.6	956.2	356.2	333.8	301.6	305.1
MSMEG _4646	MSMEG 4637	ferredoxin oxidoreductase, alpha subunit	15	1942.8	1951.1	3218.5	2991.5	934.4	942.3	978.7	952.2
MSMEG _4647	MSMEG 4638	putative sugar kinase	1	18.5	17.2	22.2	17.2	13.1	15.6	24.5	13.9

MSMEG _4664	MSMEG 4654	iolD protein	1	13.2	10.9	27.0	18.9	61.0	67.5	90.5	51.4
MSMEG _4668	MSMEG 4658	oxidoreductase alpha (molybdopterin) subunit	1	8.0	18.8	15.4	19.9	0.8	1.6	0.9	0.8
MSMEG _4672	MSMEG 4662	ATP-dependent Clp protease, proteolytic subunit ClpP (clpP)	6	2276.5	2260.3	1814.9	1916.3	1602.4	1540.2	1476.4	1418.0
MSMEG _4673	MSMEG 4663	ATP-dependent Clp protease, proteolytic subunit ClpP (clpP)	9	5605.8	5772.7	4743.9	4662.0	5780.4	5740.6	5551.5	5394.9
MSMEG _4674	MSMEG 4664	trigger factor (tig)	10	4105.1	4340.8	2914.1	2901.0	3150.9	3231.6	2601.9	2560.1
MSMEG _4679	MSMEG 4669	hypothetical protein	1	4.1	6.4	7.9	10.6	2.4	5.5	5.6	2.5
MSMEG _4687	MSMEG 4676	cytosine deaminase	4	162.5	155.6	165.1	178.1	325.1	303.1	282.8	277.7
MSMEG _4688	MSMEG 4677	DSBA-like thioredoxin domain family	1	59.5	69.9	48.3	37.2	29.4	44.3	40.2	33.5
MSMEG _4690	MSMEG 4679	pepD (pepD)	16	3104.3	2986.0	2944.6	2664.0	2214.2	2196.5	2674.2	2500.4
MSMEG _4692	MSMEG 4681	conserved hypothetical protein	4	662.2	681.3	688.5	713.2	358.0	371.5	330.6	329.0
MSMEG _4693	MSMEG 4682	conserved hypothetical protein	1	35.0	35.6	30.5	33.6	6.3	7.5	7.1	5.7
MSMEG _4698	MSMEG 4687	conserved hypothetical protein	1	169.2	162.7	138.0	140.2	191.6	250.6	158.1	175.7

MSMEG _4699	MSMEG 4688	NAD-glutamate dehydrogenase (NAD-GDH)	20	494.2	490.0	531.8	538.3	569.1	593.6	778.1	784.2
MSMEG _4700	MSMEG 4689	ABC-type transport system, ATPase component (AB041227)	11	1333.2	1272.7	841.7	731.0	1887.8	1866.8	1993.2	1727.8
MSMEG _4709	MSMEG 4698	enoyl-CoA hydratase/isomerase family protein (crt)	5	289.6	296.6	213.8	248.6	463.5	462.6	520.4	552.3
MSMEG _4714	MSMEG 4704	maoC protein (maoC)	1	15.8	17.2	14.1	19.4	22.2	20.1	7.1	16.2
MSMEG _4716	MSMEG 4706	biotin carboxylase (accA2)	1	11.0	14.7	17.7	22.5	26.7	35.6	31.0	35.6
MSMEG _4722	MSMEG 4713	oxidoreductase, short chain dehydrogenase/reductase family	6	592.9	589.9	555.1	550.5	645.9	673.9	693.5	720.6
MSMEG _4724	MSMEG 4715	exonuclease family	1	24.1	27.8	18.6	20.0	33.3	33.4	28.7	31.7
MSMEG _4727	MSMEG 4717	pks2 (pks2)	2	5.2	5.2	10.4	8.9	122.7	114.0	155.1	164.3
MSMEG _4742	MSMEG 4734	oxidoreductase, short-chain dehydrogenase/reductase family, putative	7	744.3	689.0	918.3	924.1	1342.4	1221.4	1227.1	1248.7
MSMEG _4752	MSMEG 4742	conserved hypothetical protein	1	220.0	228.2	209.0	205.9	229.0	249.5	229.1	217.2
MSMEG _4753	MSMEG 4743	bcp (bcp)	13	3255.8	3501.9	2274.8	2434.0	3881.1	4207.1	3563.0	3527.3
MSMEG _4755	MSMEG 4745	ArgE/DapE/Acy1 family protein	2	181.0	173.7	107.4	105.4	232.3	229.3	244.5	244.1

MSMEG _4757	MSMEG 4747	fatty-acid synthase (fas)	164	15609.0	15000.1	19787.8	19270.5	17072.0	16547.1	17004.2	15853.9
MSMEG _4847	MSMEG 4835	transcriptional regulator, TetR family domain protein	3	59.5	52.4	38.2	32.3	57.5	44.8	26.0	30.2
MSMEG _4888	MSMEG 4874	transcription regulator, LacI family	1	0.1	0.1	1.2	2.0	1.7	1.4	0.7	1.1
MSMEG _4891	MSMEG 4876	alkyl hydroperoxide reductase C	8	5046.3	5321.6	2821.1	2788.2	183.8	180.6	132.6	157.3
MSMEG _4901	MSMEG 4886	ribonuclease PH	2	173.2	201.4	231.8	238.4	242.2	289.0	240.9	293.8
MSMEG _4905	MSMEG 4890	cysteine synthase B	2	146.4	142.7	109.5	125.7	75.5	78.0	32.9	41.1
MSMEG _4906	MSMEG 4891	ThiS family domain protein nicotinate	2	111.2	132.6	107.0	118.9	57.4	57.5	50.2	63.4
MSMEG _4911	MSMEG 4896	phosphoribosyltransferase, putative	1	30.3	26.1	35.2	35.7	61.3	42.3	87.0	66.9
MSMEG _4914	MSMEG 4899	unnamed protein product	1	24.2	26.5	26.0	31.2	15.0	10.5	13.7	14.6
MSMEG _4915	MSMEG 4900	glycogen phosphorylase family protein (glgP)	19	1593.3	1603.3	1878.1	1778.7	2551.5	2515.6	3180.0	2860.7
MSMEG _4916	MSMEG 4901	alpha-amylase family protein	2	42.1	46.0	56.1	56.9	14.6	13.2	13.4	13.4
MSMEG _4917	MSMEG 4903	thioredoxin, putative	2	60.9	46.4	36.9	44.6	49.3	33.1	34.9	41.4
MSMEG _4918	MSMEG 4902	1,4-alpha-glucan branching enzyme (glgB)	3	244.5	231.1	180.6	212.8	314.3	316.5	301.1	334.1
MSMEG _4920	MSMEG 4905	acetyl-CoA acetyltransferase (atoB-1)	24	12838.6	11985.0	16220.4	15867.1	11936.8	11349.0	11340.5	10998.0

MSMEG _4921	MSMEG 4906	4-hydroxyphenylpyruvate dioxygenase C terminal domain containing prot	5	677.1	741.3	832.7	888.2	550.9	617.8	495.6	548.0
MSMEG _4932	MSMEG 4917	UDP-N-acetylglucosamine 1-carboxyvinyltransferase (murA)	4	334.4	336.5	314.5	339.9	298.7	268.2	213.5	229.0
MSMEG _4934	MSMEG 4918	ATP:cob(I)alamin adenosyltransferase, putative	3	421.5	423.6	356.7	373.7	247.9	257.9	222.8	242.0
MSMEG _4935	MSMEG 4920	ATP synthase F1, epsilon subunit (atpC)	4	261.2	268.7	793.6	749.6	305.6	325.9	379.5	344.5
MSMEG _4936	MSMEG 4921	ATP synthase F1, beta subunit (atpD)	19	3670.3	3748.4	12917.0	12912.8	8423.8	8748.2	9190.1	9573.7
MSMEG _4937	MSMEG 4922	ATP synthase F1, gamma subunit (atpG)	6	111.2	139.3	298.1	326.9	197.8	225.6	175.6	214.2
MSMEG _4940	MSMEG 4926	ATP synthase b chain (atpF)	2	92.2	114.8	234.1	243.8	82.0	101.4	83.4	83.8
MSMEG _4950	MSMEG 4935	peptide chain release factor 1 (prfA)	1	16.6	18.1	7.4	14.7	2.5	2.4	1.5	0.5
MSMEG _4951	MSMEG 4936	ribosomal protein L31 (rpmE)	3	693.3	782.3	763.5	779.8	360.3	428.9	381.5	408.5
MSMEG _4955	MSMEG 4941	homoserine kinase (thrB)	1	46.7	49.8	56.2	56.4	45.8	42.5	63.6	66.4
MSMEG _4956	MSMEG 4942	threonine synthase (thrC)	4	586.5	499.6	379.4	409.1	339.8	309.1	223.2	294.9
MSMEG _4957	MSMEG 4943	homoserine dehydrogenase	2	299.0	269.0	310.4	290.6	360.6	329.2	464.6	407.8

MSMEG _4958	MSMEG 4944	diaminopimelate decarboxylase (lysA)	2	144.3	131.5	152.5	126.1	443.4	445.5	417.7	427.7
MSMEG _4959	MSMEG 4945	arginyl-tRNA synthetase (argS)	3	248.6	240.5	266.2	259.5	325.7	309.9	370.9	340.8
MSMEG _4971	MSMEG 4957	enoyl-(acyl-carrier-protein) reductase II (fabK)	1	33.2	41.9	11.1	13.3	97.7	96.8	149.6	153.0
MSMEG _4974	MSMEG 4960	RrF2 family protein	2	15.2	16.3	16.5	20.1	17.3	16.9	21.4	21.1
MSMEG _4976	MSMEG 4962	isochorismatase family protein	10	1453.4	988.7	1621.3	1723.8	1305.6	1172.8	1127.4	1191.8
MSMEG _4978	MSMEG 4965	sulfate adenylyltransferase, large subunit/adenylylsulfate kinase (cys)	1	9.1	10.2	3.9	9.5	4.8	3.9	1.2	3.9
MSMEG _4985	MSMEG 4972	carbonic anhydrase-related protein	6	2222.3	1831.3	1817.4	1829.9	1643.6	1379.1	1557.7	1427.4
MSMEG _4997	MSMEG 4983	ABC transporter, ATP-binding protein	1	1.4	0.2	0.1	0.0	2.3	0.8	0.6	0.6
MSMEG _5005	MSMEG 4993	conserved hypothetical protein	2	154.0	169.3	115.1	131.0	109.0	113.8	100.0	97.2
MSMEG _5006	MSMEG 4992	phosphohistidine phosphatase SixA, putative	1	3.9	0.0	4.4	5.2	3.0	0.0	2.8	2.6
MSMEG _5022	MSMEG 5007	flavin-containing monooxygenase	3	11.1	11.3	43.8	35.3	63.9	70.4	112.3	75.8
MSMEG _5037	MSMEG 5024	glycolate oxidase, subunit GlcD (glcD)	1	118.4	150.3	87.1	113.0	46.1	61.0	46.7	63.8

MSMEG _5042	MSMEG 5030	ATP-dependent RNA helicase DeaD	11	481.5	488.3	322.1	394.9	499.1	521.4	511.2	618.0
MSMEG _5048	MSMEG 5036	conserved hypothetical protein	1	8.3	12.6	3.9	4.5	16.4	23.2	9.0	17.1
MSMEG _5049	MSMEG 5037	2-oxoglutarate dehydrogenase E1 component	54	6644.3	6329.4	5708.7	5617.2	7350.1	6826.6	6972.3	6472.8
MSMEG _5053	MSMEG 5041	short chain dehydrogenase family protein	1	14.6	10.7	16.4	16.0	21.8	20.6	24.2	23.3
MSMEG _5055	MSMEG 5043	malate oxidoreductase (oxaloacetatedec)	4	1131.6	1065.4	955.3	954.0	1273.6	1193.4	1218.4	1146.6
MSMEG _5058	MSMEG 5046	sugC (sugC)	2	83.7	83.0	165.1	145.1	139.3	151.7	224.9	186.4
MSMEG _5062	MSMEG 5050	conserved hypothetical protein	1	48.0	55.4	56.8	66.0	90.6	100.4	81.0	77.3
MSMEG _5064	MSMEG 5052	citrate lyase, beta subunit	3	157.2	176.6	128.2	137.4	135.3	145.0	95.1	96.6
MSMEG _5073	MSMEG 5061	O-methyltransferase superfamily	3	32.4	31.8	20.1	21.6	174.9	190.3	146.3	168.9
MSMEG _5086	MSMEG 5074	fadD6 (fadD6)	5	378.9	348.8	287.8	311.8	439.7	400.1	352.6	358.9
MSMEG _5104	MSMEG 5090	tetrahydrodipicolinate N- succinyltransferase (dapD)	5	1116.5	1157.0	612.9	646.5	708.7	758.4	711.5	667.7
MSMEG _5117	MSMEG 5103	Proline dehydrogenase superfamily	1	47.7	46.5	66.5	60.6	40.3	27.0	56.2	37.7

MSMEG _5119	MSMEG 5104	delta-1-pyrroline-5-carboxylate dehydrogenase (pruA)	7	81.8	79.0	97.8	91.7	916.1	832.5	589.2	523.1
MSMEG _5121	MSMEG 5107	aminotransferase, classes I and II	3	303.2	313.9	255.5	267.4	229.5	253.7	212.9	234.4
MSMEG _5122	MSMEG 5108	ferredoxin	1	198.0	204.9	212.7	233.9	282.0	276.4	316.4	300.6
MSMEG _5129	MSMEG 5117	Uncharacterized LmbE-like protein, COG2120 superfamily	4	361.3	333.6	231.5	253.7	294.6	304.0	270.2	291.6
MSMEG _5132	MSMEG 5120	GTP-binding protein TypA (typA)	5	265.2	289.5	156.5	208.8	745.0	730.0	579.6	655.5
MSMEG _5136	MSMEG 5121	conserved hypothetical protein	2	264.0	304.6	47.0	50.3	4.2	6.9	4.8	2.6
MSMEG _5150	MSMEG 5135	pterin-4-alpha-carbinolamine dehydratase	1	9.8	10.6	15.7	17.1	31.6	29.6	36.8	34.9
MSMEG _5164	MSMEG 5148	alcohol dehydrogenase, zinc-containing	2	101.6	103.9	19.5	32.1	993.1	971.9	429.3	504.7
MSMEG _5170	MSMEG 5154	conserved hypothetical protein	2	154.2	202.7	104.1	119.3	475.9	697.2	370.5	445.3
MSMEG _5183	MSMEG 5166	3-hydroxyacyl-CoA dehydrogenase FadB2x	7	1068.7	1079.6	769.3	781.3	1401.2	1378.7	1559.7	1553.9
MSMEG _5184	MSMEG 5167	alpha-methylacyl-CoA racemase, putative	1	64.6	71.5	41.7	45.7	438.2	638.3	258.5	260.2
MSMEG _5191	MSMEG 5175	anhydrase, family 3 protein	3	123.4	110.1	80.0	84.5	62.1	50.2	56.2	55.1

MSMEG _5197	MSMEG 5179	acyl-CoA dehydrogenase (fadE20)	2	71.0	69.8	98.9	97.9	67.4	104.8	61.7	82.2
MSMEG _5198	MSMEG 5180	echA1 (echA1)	2	70.6	83.5	117.5	136.0	52.1	58.0	53.3	78.5
MSMEG _5199	MSMEG 5181	thiolase family protein	2	435.2	435.5	519.1	531.8	406.1	384.0	375.0	434.8
MSMEG _5211	MSMEG 5192	aminotransferase, class III	7	499.8	491.8	479.7	487.9	547.7	551.4	581.0	608.8
MSMEG _5215	MSMEG 5199	conserved hypothetical protein	1	3.4	2.7	2.9	3.6	2.2	3.7	2.3	1.5
MSMEG _5225	MSMEG 5209	conserved hypothetical protein	4	244.3	242.4	675.3	754.9	873.9	882.0	936.2	938.6
MSMEG _5239	MSMEG 5224	fructose-1,6-bisphosphatase, class II (glpX)	4	1019.0	1028.6	610.1	601.7	1029.2	1059.7	805.8	840.4
MSMEG _5240	MSMEG 5225	fum (fum)	11	3706.6	3464.2	3787.2	3569.9	4030.1	3917.4	4933.0	4722.4
MSMEG _5243	MSMEG 5228	conserved hypothetical protein	1	263.5	274.0	61.2	71.8	15.7	17.8	19.4	17.8
MSMEG _5244	MSMEG 5229	DNA-binding response regulator,	1	6.6	0.0	1.2	0.9	8.7	0.0	2.0	2.7
MSMEG _5245	MSMEG 5230	universal stress protein family domain protein	3	537.1	555.2	76.2	83.7	41.7	51.0	31.0	37.0
MSMEG _5246	MSMEG 5231	conserved hypothetical protein	5	1936.4	1954.3	267.8	298.4	529.5	461.9	857.7	857.1
MSMEG _5248	MSMEG 5233	acyl-	6	895.5	939.4	726.2	786.6	393.0	420.4	420.1	469.8
MSMEG _5249	MSMEG 5234	serine hydroxymethyltransferase	9	3714.6	4001.3	3373.7	3404.1	4253.2	4573.5	4598.2	4794.2

MSMEG	MSMEG										
_5252	5236	pantothenate kinase VC0320	2	79.3	82.1	61.6	62.1	76.6	78.6	37.5	58.1
MSMEG	MSMEG										
_5258	5243	steroid Delta-isomerase	1	70.4	88.8	65.4	85.1	64.2	82.7	54.9	62.5
MSMEG	MSMEG	transcription elongation factor G									
_5263	5248	greA	2	421.2	480.9	417.8	441.8	333.6	361.1	291.5	286.4
MSMEG	MSMEG										
_5265	5251	cystathionine beta-lyase	4	1757.5	1586.7	1280.8	1279.2	1116.8	1050.3	1130.8	1215.3
MSMEG	MSMEG										
_5270	5255	cystathionine beta-synthase	4	641.3	573.8	467.6	426.7	518.2	481.5	413.8	416.3
MSMEG	MSMEG										
_5273	5258	thiolase, putative	9	6050.6	5837.2	4485.1	4341.0	6404.6	6524.6	5928.3	6004.2
MSMEG	MSMEG	phosphoribosylglycinamide									
_5274	5259	formyltransferase 2 (purT)	1	117.5	114.3	150.2	136.3	328.1	359.6	339.7	360.9
MSMEG	MSMEG										
_5285	5270	Patatin-like phospholipase family	1	161.4	164.7	39.2	46.7	22.7	23.1	14.4	17.1
MSMEG	MSMEG	Acetamidase/Formamidase family									
_5358	5339	family	2	192.3	213.1	134.4	131.9	96.6	99.6	117.3	106.1
MSMEG	MSMEG										
_5359	5340	cyanate hydratase (cynS)	7	50.2	53.0	60.8	64.8	1050.3	1129.9	1124.2	1041.8
MSMEG	MSMEG	ATP-dependent DNA helicase									
_5397	5377	RecQ, interruption-C	1	7.9	6.2	7.5	5.2	35.9	21.3	43.1	20.4
MSMEG	MSMEG										
_5404	5383	prpE protein VC1340	3	259.4	262.4	93.4	109.1	145.9	181.2	128.7	198.8
MSMEG	MSMEG										
_5413	5393	exopolyphosphatase	1	22.9	27.1	26.0	26.3	294.8	325.0	171.6	186.4
MSMEG	MSMEG										
_5415	5395	enolase (eno)	14	12106.2	11488.7	9458.8	8682.8	10548.6	10209.8	11963.1	11385.6
MSMEG	MSMEG										
_5419	5399	putative lipoprotein	7	1215.7	1133.2	396.9	383.8	415.0	422.3	465.2	400.1

MSMEG _5423	MSMEG 5404	transcription-repair coupling factor (mfd)	9	209.7	202.7	128.5	130.3	225.9	226.5	204.0	211.8
MSMEG _5424	MSMEG 5405	transcriptional regulator, TetR family	1	7.6	6.6	2.1	2.5	27.0	27.1	25.1	34.1
MSMEG _5427	MSMEG 5408	ribose-phosphate pyrophosphokinase (PRPPSynthetase)	10	1088.0	1209.9	968.9	971.8	570.4	623.1	323.0	348.2
MSMEG _5431	MSMEG 5412	ribosomal 5S rRNA E-loop binding protein Ctc/L25/TL5	3	1877.8	1827.8	2318.4	2376.1	1445.1	1384.4	1529.0	1546.3
MSMEG _5435	MSMEG 5415	pks16 (pks16)	8	1102.1	1021.2	1336.0	1507.5	704.4	772.1	392.3	498.3
MSMEG _5438	MSMEG 5418	dimethyladenosine transferase (ksgA)	1	182.5	162.2	219.1	198.8	527.8	496.8	451.0	444.7
MSMEG _5441	MSMEG 5421	methionyl-tRNA synthetase (metG)	1	87.1	87.9	87.9	76.1	88.3	72.4	68.2	69.5
MSMEG _5471	MSMEG 5450	UTP-glucose-1-phosphate uridylyltransferase (galU)	2	171.0	171.0	174.3	209.7	154.0	148.3	212.8	201.8
MSMEG _5479	MSMEG 5458	conserved hypothetical protein	1	43.2	46.5	31.9	30.8	0.4	0.6	0.0	1.1
MSMEG _5485	MSMEG 5465	molybdopterin biosynthesis protein (mog)	3	453.1	484.0	492.6	494.2	693.5	707.2	774.8	704.3
MSMEG _5486	MSMEG 5466	heat shock protein HtrA, putative	1	29.2	19.7	11.2	13.0	26.8	14.2	14.9	21.4

MSMEG _5488	MSMEG 5468	DNA-binding response regulator	1	45.8	52.3	37.2	39.2	90.7	88.3	112.3	116.7
MSMEG _5489	MSMEG 5469	ribosomal protein L32, putative	2	550.8	561.5	519.6	584.0	229.8	229.0	256.1	278.7
MSMEG _5512	MSMEG 5490	Mg-chelatase subunit ChlI	6	534.2	529.8	365.1	375.5	543.9	547.0	605.9	600.0
MSMEG _5515	MSMEG 5493	phosphoribosylaminoimidazolecarboxamide formyltransferase/IMP cyclohydrolase	4	120.7	116.7	97.5	92.5	94.4	93.1	90.5	106.9
MSMEG _5520	MSMEG 5498	N5,N10-methylenetetrahydromethanopterin reductase-related protein	3	231.0	210.0	324.0	302.8	122.8	118.6	85.9	103.9
MSMEG _5524	MSMEG 5502	hypothetical protein	15	3426.2	3383.8	5592.9	5294.5	4452.4	4459.5	4674.9	4374.8
MSMEG _5525	MSMEG 5503	carbamoyl-phosphate synthase, large subunit (carB)	13	12254.2	11646.1	12668.7	12267.9	11324.9	11027.3	11061.8	10519.7
MSMEG _5534	MSMEG 5512	ATP-dependent DNA helicase PcrA (pcrA)	1	4.0	4.2	8.2	9.5	0.1	0.0	0.2	0.1
MSMEG _5538	MSMEG 5516	NAD-dependent aldehyde dehydrogenases	6	1127.2	1066.8	851.1	705.7	675.1	638.9	694.6	674.0
MSMEG _5541	MSMEG 5517	glucose-6-phosphate isomerase (pgi)	5	1804.1	1755.4	1438.7	1286.8	1161.3	1161.2	1357.9	1203.2
MSMEG _5553	MSMEG 5530	methyltransferase (multi-domain)	1	60.8	55.7	71.0	74.1	153.4	138.6	110.1	115.2
MSMEG _5592	MSMEG 5572	Rif11	3	73.2	100.2	68.8	92.8	200.0	238.1	229.1	262.2

MSMEG _5612	MSMEG 5590	acetyltransferase, GNAT family	2	138.2	131.2	220.9	226.8	84.5	94.4	59.1	88.1
MSMEG _5615	MSMEG 5592	conserved hypothetical protein	1	34.2	44.1	25.4	33.1	58.4	67.9	46.4	51.5
MSMEG _5634	MSMEG 5613	conserved hypothetical protein	1	23.6	15.5	18.2	19.0	20.6	13.0	10.6	12.9
MSMEG _5639	MSMEG 5618	enoyl-CoA hydratase (fad-1)	12	1979.6	1985.5	1682.1	1685.3	1463.5	1433.9	1298.4	1309.3
MSMEG _5650	MSMEG 5630	acetyl-CoA synthetase (acs-6)	1	2.0	3.1	4.8	5.7	22.2	38.4	5.4	10.4
MSMEG _5662	MSMEG 5641	DNA-binding response regulator PrrA (prrA)	5	443.7	483.6	433.0	470.4	695.1	707.9	763.1	761.9
MSMEG _5664	MSMEG 5643	peptidyl-prolyl cis-trans isomerase FkbP	5	332.5	300.1	266.3	285.7	252.1	238.6	280.3	271.9
MSMEG _5672	MSMEG 5650	citrate synthase I (gltA)	15	8510.7	8503.2	5881.6	5877.6	7366.9	7400.8	7112.2	7159.4
MSMEG _5675	MSMEG 5653	pyridoxamine 5-phosphate oxidase (pdxH)	2	226.1	253.5	186.0	181.6	122.0	147.6	134.6	144.5
MSMEG _5676	MSMEG 5654	putative citrate synthase 2 (citA)	2	200.8	186.5	84.2	78.2	259.5	226.4	132.9	125.5
MSMEG _5680	MSMEG 5658	glyoxalase family protein	8	585.3	524.7	433.2	451.0	567.7	523.2	477.7	468.2
MSMEG _5684	MSMEG 5662	phosphoserine aminotransferase, putative	6	1667.0	1455.0	1334.7	1224.0	1277.1	1081.6	1274.1	1280.2
MSMEG _5690	MSMEG 5667	hypothetical protein	3	249.2	274.2	253.5	278.7	325.1	354.9	283.7	296.9
MSMEG _5694	MSMEG 5670	conserved hypothetical protein	1	26.8	0.0	13.5	15.9	98.4	0.0	159.6	132.1

MSMEG _5696	MSMEG 5672	cspB (cspB)	2	178.2	186.7	197.1	209.3	208.9	219.7	183.2	190.9
MSMEG _5701	MSMEG 5677	molybdopterin converting factor, subunit 2	1	23.6	26.0	22.0	22.3	28.8	28.9	27.9	24.8
MSMEG _5702	MSMEG 5678	mog (mog)	3	117.2	123.4	55.4	58.7	130.5	133.7	131.0	126.9
MSMEG _5703	MSMEG 5679	molybdenum cofactor biosynthesis protein C (moaC)	1	105.3	0.0	42.8	72.2	89.6	0.0	43.7	74.9
MSMEG _5706	MSMEG 5682	Helicase conserved C-terminal domain protein	1	51.2	52.9	35.2	34.6	39.0	39.1	25.3	34.3
MSMEG _5707	MSMEG 5683	conserved hypothetical protein	2	166.2	136.5	164.6	175.8	197.6	166.8	208.0	211.4
MSMEG _5715	MSMEG 5691	Luciferase-like monooxygenase superfamily	6	2379.2	2375.8	1167.9	1194.2	2476.0	2331.5	1936.1	1873.6
MSMEG _5720	MSMEG 5695	fatty oxidation complex, alpha subunit (fadB)	20	1958.0	1877.3	2636.2	2290.2	875.8	835.6	1032.7	895.8
MSMEG _5721	MSMEG 5696	thiolase	3	434.0	474.0	435.0	422.9	190.6	218.2	175.6	197.3
MSMEG _5725	MSMEG 5700	aminotransferase, class I	2	331.0	339.1	199.4	196.3	220.0	257.6	276.2	318.8
MSMEG _5727	MSMEG 5702	allantoicase	1	51.6	48.0	36.1	36.4	98.6	98.2	89.7	73.2
MSMEG _5732	MSMEG 5707	N5,N10-methylene- tetrahydromethanopterin reductase (mer), putative	1	45.9	53.2	21.2	29.1	59.3	76.5	47.9	59.8

MSMEG _5733	MSMEG 5708	universal stress protein family domain protein	2	125.1	123.5	54.0	48.9	4.0	2.9	2.0	2.0
MSMEG _5734	MSMEG 5709	far (far)	2	363.7	334.8	206.0	199.6	244.0	249.1	149.8	200.3
MSMEG _5739	MSMEG 5713	substrate--CoA ligase, putative	6	155.0	141.1	22.6	25.0	52.7	47.1	38.9	34.6
MSMEG _5773	MSMEG 5743	fatty acid desaturase (desA1)	1	206.6	219.8	149.7	144.5	2.4	4.5	1.9	1.8
MSMEG _5776	MSMEG 5747	phosphate transport system regulatory protein, putative	3	295.6	326.4	195.6	197.6	370.9	403.8	375.2	398.8
MSMEG _5784	MSMEG 5755	transcriptional regulator (drrA)	2	77.0	86.0	98.2	105.6	243.1	265.7	244.2	270.8
MSMEG _5789	MSMEG 5759	thiosulfate sulfurtransferase (cysA-1)	16	9903.7	9840.0	9702.1	9446.5	4363.8	4447.5	4109.9	4146.9
MSMEG _5790	MSMEG 5760	conserved hypothetical	3	2104.9	2348.3	1742.3	1792.2	354.5	399.7	439.9	426.6
MSMEG _5792	MSMEG 5762	conserved hypothetical protein	2	124.2	126.9	104.4	114.0	141.3	158.1	112.7	118.7
MSMEG _5795	MSMEG 5764	aminotransferase, class IV	2	70.1	65.7	66.4	68.9	52.6	45.3	44.3	47.3
MSMEG _5798	MSMEG 5766	phosphoribosylformylglycinamidine cyclo-ligase (purM)	2	151.1	141.2	146.3	121.6	601.6	548.2	675.8	609.3
MSMEG _5804	MSMEG 5771	hypothetical protein	1	308.8	303.3	336.9	326.2	4.5	9.5	1.1	4.0
MSMEG _5824	MSMEG 5789	phosphoribosylformylglycinamidine synthase II (purL)	16	2922.0	3087.7	2215.8	2568.4	1992.9	2067.5	1926.2	2238.6

MSMEG _5830	MSMEG 5795	Linocin_M18 bacteriocin protein superfamily	4	592.6	618.9	750.5	748.1	894.0	878.3	962.7	963.7
MSMEG _5831	MSMEG 5796	phosphoribosylformylglycinamidine synthase I (purQ)	4	1036.0	1100.8	793.8	793.5	625.2	658.8	648.8	641.4
MSMEG _5832	MSMEG 5797	phosphoribosylformylglycinamidine synthase, PurS protein (purS)	1	136.9	179.8	94.0	107.7	233.6	303.6	228.0	250.6
MSMEG _5834	MSMEG 5800	metallo-beta-lactamase superfamily domain protein	1	21.5	16.1	9.9	14.6	22.5	17.7	16.2	19.4
MSMEG _5835	MSMEG 5801	3-ketosteroid-delta-1-dehydrogenase, putative	1	16.3	13.0	54.9	53.1	5.3	7.8	20.5	25.1
MSMEG _5837	MSMEG 5803	glutathione peroxidase family protein	2	439.1	499.7	243.7	266.6	338.7	382.0	261.4	268.2
MSMEG _5839	MSMEG 5806	protease II	5	430.7	441.0	407.7	413.4	258.2	281.7	234.2	298.7
MSMEG _5841	MSMEG 5807	phosphoribosylaminoimidazole-succinocarboxamide synthase (purC)	7	443.0	478.8	371.7	395.9	562.7	600.2	481.0	500.3
MSMEG _5847	MSMEG 5813	adenylosuccinate lyase (purB)	4	649.6	580.5	544.6	534.1	1212.1	1246.5	1623.7	1580.4
MSMEG _5852	MSMEG 5818	phosphoribosylamine--glycine ligase (purD)	9	1437.6	1166.3	1133.1	1173.0	1148.9	946.4	1322.3	1354.7
MSMEG _5871	MSMEG 5835	HIT family protein (pkcl)	7	634.9	663.7	804.3	808.5	604.2	618.5	760.5	697.8

MSMEG _5872	MSMEG 5837	DNA-binding response regulator PhoP (phoP)	2	405.6	394.6	174.0	171.8	166.5	171.9	135.3	146.0
MSMEG _5873	MSMEG 5838	conserved hypothetical protein	1	39.6	34.0	22.4	28.5	34.0	36.1	29.1	34.3
MSMEG _5884	MSMEG 5848	2-hydroxy-3-oxopropionate reductase, putative	3	258.3	239.9	190.7	190.9	246.5	247.7	177.0	183.3
MSMEG _5892	MSMEG 5854	alpha,alpha-trehalose-phosphate synthase (otsA)	2	90.4	98.3	103.7	102.3	138.7	152.2	157.1	156.6
MSMEG _5893	MSMEG 5856	conserved hypothetical protein	1	68.6	82.5	70.3	73.4	23.4	21.2	16.6	15.5
MSMEG _5925	MSMEG 5884	iron-sulfur cluster-binding protein, rieske family domain protein	1	35.5	31.6	20.5	32.5	4.7	2.6	5.0	5.2
MSMEG _5935	MSMEG 5893	ATP-dependent DNA helicase RecQ (recQ-1)	1	21.1	21.4	23.9	28.2	29.4	30.1	28.5	35.1
MSMEG _5937	MSMEG 5895	HMGL-like domain protein	2	400.4	360.5	408.8	375.0	260.0	225.1	201.9	189.0
MSMEG _5939	MSMEG 5896	acetaldehyde dehydrogenase (acetylating) (EC 1.2.1.10) Rv3535c	3	178.9	188.0	204.2	227.2	107.7	118.5	96.5	119.8
MSMEG _5940	MSMEG 5897	2-oxo-hepta-3-ene-1,7-dioate hydratase (hpaH)	2	158.6	166.2	300.7	266.5	295.2	312.5	344.1	340.7
MSMEG _5943	MSMEG 5899	MaoC family protein (ufaA2)	3	220.0	244.3	348.1	391.1	380.1	389.1	374.5	381.7

MSMEG _6008	MSMEG 5965	fadA6 (fadA6)	2	123.7	161.7	96.5	126.8	147.5	144.0	175.0	186.4
MSMEG _6024	MSMEG 5983	acetoacetyl-CoA synthase	3	108.2	106.3	71.4	80.0	71.8	69.8	42.8	70.4
MSMEG _6073	MSMEG 6035	spoU rRNA methylase family protein	1	19.1	16.1	9.8	9.0	13.9	12.1	7.6	8.2
MSMEG _6075	MSMEG 6037	2C-methyl-D-erythritol 2,4-cyclodiphosphate synthase (ispF)	1	5.8	0.0	5.4	4.4	21.4	0.0	12.0	15.9
MSMEG _6076	MSMEG 6038	2-C-methyl-D-erythritol 4-phosphate cytidylyltransferase (ispD)	2	40.8	39.2	34.8	34.2	94.6	87.5	101.4	125.0
MSMEG _6077	MSMEG 6039	CarD-like transcriptional regulator family	1	30.6	26.1	18.5	20.7	1.9	1.7	0.5	0.2
MSMEG _6082	MSMEG 6044	carbonic anhydrase (icfA)	4	291.7	307.3	419.0	417.5	612.4	659.1	614.8	574.4
MSMEG _6086	MSMEG 6049	Antibiotic biosynthesis monooxygenase domain protein	4	500.7	597.7	491.9	461.2	455.4	529.2	648.9	606.1
MSMEG _6091	MSMEG 6054	clpC (clpC)	25	3502.1	3281.9	3883.1	3651.7	5182.1	4894.8	6314.3	6124.2
MSMEG _6092	MSMEG 6056	LSR2 protein precursor (15 kDa antigen) (A15)	3	555.2	448.8	501.9	529.3	259.2	276.7	324.2	315.5
MSMEG _6094	MSMEG 6057	lysyl-tRNA synthetase (lysS)	5	432.3	432.5	185.8	225.8	505.8	497.1	310.5	394.1
MSMEG _6096	MSMEG 6059	transcriptional activator, putative, Baf family subfamily	1	75.4	75.1	103.2	93.0	41.3	49.5	42.8	57.5

MSMEG _6097	MSMEG 6060	pantoate--beta-alanine ligase (panC)	2	989.8	1004.7	2888.0	2875.8	1387.3	1308.3	1635.2	1616.1
MSMEG _6105	MSMEG 6068	ATP-dependent metalloprotease FtsH	5	395.6	406.1	560.7	518.8	396.6	399.6	315.1	322.0
MSMEG _6110	MSMEG 6073	hypoxanthine phosphoribosyltransferase (hpt)	3	28.8	31.8	25.5	34.6	95.4	96.1	42.1	59.2
MSMEG _6114	MSMEG 6077	inorganic pyrophosphatase (ppa)	6	414.3	346.2	425.2	468.1	410.9	331.7	398.6	432.5
MSMEG _6127	MSMEG 6090	anti-anti-sigma factor family	2	7.9	1.2	12.3	16.6	12.3	7.5	20.0	22.6
MSMEG _6128	MSMEG 6092	response regulator	1	16.4	18.1	35.6	39.4	29.7	36.5	30.4	31.4
MSMEG _6142	MSMEG 6105	NAD-dependent epimerase/dehydratase family protein	10	1161.0	1116.4	732.6	760.0	748.5	756.0	619.4	627.9
MSMEG _6157	MSMEG 6120	DNA topoisomerase I (topA)	13	667.9	662.1	683.0	649.6	784.7	816.1	757.5	849.7
MSMEG _6159	MSMEG 6122	probable cold shock protein	1	10.7	15.0	33.5	38.3	7.9	10.0	31.9	35.4
MSMEG _6179	MSMEG 6139	acetyl-CoA synthase	16	2127.0	2140.0	2827.0	2713.6	4649.9	4332.5	4787.4	4495.6
MSMEG _6189	MSMEG 6148	cyclic nucleotide-binding domain protein	7	3634.0	3792.3	3803.1	3567.2	4352.4	4325.3	4330.0	4149.2
MSMEG _6191	MSMEG 6150	Putative translation initiation inhibitor	5	445.8	364.2	330.1	296.2	289.6	225.4	285.4	237.1
MSMEG _6195	MSMEG 6153	Anion-transporting ATPase superfamily	1	150.2	144.7	151.8	162.0	192.5	208.7	206.0	226.5

MSMEG _6207	MSMEG 6167	conserved hypothetical protein	6	73.2	53.7	74.2	72.7	171.8	130.9	167.5	164.8
MSMEG _6210	MSMEG 6170	hypothetical protein	1	2.5	3.9	18.0	22.7	110.0	124.1	99.6	109.6
MSMEG _6213	MSMEG 6172	Mn-containing catalase (dividedwithOB16)	1	11.3	14.5	6.7	12.2	93.9	110.0	109.7	118.2
MSMEG _6215	MSMEG 6174	Protein of unknown function (DUF541) superfamily	1	143.6	135.4	166.0	158.7	178.9	153.0	139.3	161.8
MSMEG _6229	MSMEG 6190	glycerol kinase (glpK)	4	277.0	265.8	658.1	683.1	398.7	405.4	411.9	444.1
MSMEG _6242	MSMEG 6203	alcohol dehydrogenase II	1	449.0	424.8	476.7	443.2	60.3	73.4	109.3	106.8
MSMEG _6243	MSMEG 6204	conserved hypothetical protein	1	7.4	6.7	24.0	10.1	10.1	12.2	11.8	11.7
MSMEG _6256	MSMEG 6217	aspartate-semialdehyde dehydrogenase (asd)	7	1305.0	1226.9	1178.4	1152.0	1554.7	1487.1	1414.1	1475.3
MSMEG _6257	MSMEG 6218	aspartate kinase, monofunctional class	3	928.3	1008.2	753.6	742.2	1246.4	1383.8	1198.0	1167.2
MSMEG _6271	MSMEG 6231	2-isopropylmalate synthase (leuA)	4	404.3	439.3	299.9	430.8	205.6	213.1	185.2	224.7
MSMEG _6280	MSMEG 6240	conserved hypothetical protein TIGR00103, putative	3	65.0	69.5	60.2	73.6	113.2	101.1	120.0	144.6
MSMEG _6282	MSMEG 6242	conserved hypothetical protein	6	784.4	882.9	518.3	557.3	2557.3	3016.3	2680.7	2582.9

MSMEG _6283	MSMEG 6243	FAD binding domain protein	1	32.0	25.0	71.0	55.3	37.6	34.8	23.2	23.2
MSMEG _6284	MSMEG 6244	cyclopropane-fatty-acyl-phospholipid synthase	4	1141.1	1077.3	1087.2	996.0	1076.7	1081.4	1298.2	1257.3
MSMEG _6285	MSMEG 6245	DNA polymerase III, subunit	3	192.2	198.3	193.0	196.9	180.2	191.8	186.7	208.5
MSMEG _6286	MSMEG 6246	conserved hypothetical protein	3	284.3	242.2	258.3	256.3	146.9	142.7	239.7	252.3
MSMEG _6288	MSMEG 6249	conserved hypothetical protein	1	10.5	13.8	1.8	12.4	6.9	11.1	0.1	9.5
MSMEG _6309	MSMEG 6269	amino acid ABC transporter, ATP-binding protein	1	43.8	44.4	60.0	56.1	251.4	233.3	255.6	195.2
MSMEG _6317	MSMEG 6277	arylesterase	2	638.6	695.8	436.2	460.8	454.2	464.5	348.9	373.0
MSMEG _6329	MSMEG 6290	conserved hypothetical protein	2	29.7	34.2	56.0	54.7	38.5	48.1	42.1	39.8
MSMEG _6337	MSMEG 6297	fadE36 (fadE36)	1	45.8	58.6	42.3	54.3	340.7	332.4	231.1	251.7
MSMEG _6351	MSMEG 6314	histidinol-phosphate aminotransferase (hisC)	4	1143.0	1092.2	933.8	883.0	697.2	722.9	640.4	611.6
MSMEG _6352	MSMEG 6315	conserved hypothetical protein	3	87.1	94.7	64.6	78.1	45.9	58.6	41.1	47.1
MSMEG _6353	MSMEG 6316	enoyl-CoA hydratase/isomerase family protein (fad-1)	8	672.9	718.6	644.1	657.5	684.3	733.4	608.6	680.7
MSMEG _6354	MSMEG 6317	serine esterase, cutinase family	1	5.1	3.7	6.1	5.2	53.8	48.8	61.3	52.2

MSMEG _6363	MSMEG 6325	conserved hypothetical protein	3	261.0	254.8	175.4	178.1	143.1	206.3	98.4	124.3
MSMEG _6365	MSMEG 6327	conserved hypothetical protein	1	115.9	124.3	123.0	126.3	108.2	123.7	137.8	142.9
MSMEG _6384	MSMEG 6346	catalase/peroxidase HPI (katG)	10	1355.4	1376.5	2392.4	2210.0	1121.3	1168.9	1431.4	1195.3
MSMEG _6385	MSMEG 6347	putative protein belonging to the short-chain alcohol dehydrogenase	3	367.6	353.4	274.0	308.5	380.1	348.5	311.7	344.2
MSMEG _6391	MSMEG 6353	propionyl-CoA carboxylase, beta subunit (pccB)	11	3131.8	2948.2	3140.8	2855.8	3389.0	3260.6	2999.8	2698.6
MSMEG _6392	MSMEG 6354	POLYKETIDE SYNTHASE PKS13	56	2971.6	2870.5	3227.1	3257.4	5675.2	5399.8	5144.1	4852.1
MSMEG _6393	MSMEG 6355	acyl-CoA synthase (fadD32)	26	6175.9	5755.1	7214.2	7245.2	9720.8	8839.8	9187.1	8986.5
MSMEG _6398	MSMEG 6360	esterase, putative, antigen 85-A	9	1520.5	1598.7	2290.2	2480.5	525.0	566.4	443.3	484.4
MSMEG _6399	MSMEG 6361	esterase, putative, antigen 85-C	2	26.3	29.4	73.3	69.5	29.5	44.0	37.7	38.4
MSMEG _6402	MSMEG 6364	PAP2 superfamily domain protein	5	119.6	97.6	95.4	90.8	92.6	77.5	75.9	75.2
MSMEG _6403	MSMEG 6365	conserved hypothetical protein	5	196.9	104.2	181.1	111.1	107.5	58.2	111.0	82.4

MSMEG _6404	MSMEG 6366	UDP-galactopyranose mutase (glf)	6	538.0	461.9	600.8	583.5	367.8	345.3	670.4	689.7
MSMEG _6408	MSMEG 6371	Acyltransferase domain protein	1	110.5	136.2	166.5	162.3	219.3	283.1	228.4	262.4
MSMEG _6409	MSMEG 6372	Acyltransferase domain protein	1	71.5	73.6	56.7	81.7	834.4	873.0	1192.1	1196.5
MSMEG _6410	MSMEG 6373	iron-sulfur cluster-binding protein, rieske family domain protein	3	263.9	249.7	324.4	288.3	249.8	274.7	272.9	252.5
MSMEG _6412	MSMEG 6375	conserved hypothetical protein	6	697.0	688.0	819.2	821.9	751.5	760.6	762.2	777.2
MSMEG _6413	MSMEG 6376	seryl-tRNA synthetase (serS)	1	128.7	119.4	130.4	130.1	23.5	26.6	17.8	16.8
MSMEG _6418	MSMEG 6381	pheA (pheA)	2	94.7	103.8	134.5	136.0	88.7	89.1	68.2	80.7
MSMEG _6422	MSMEG 6385	bfrB (bfrB)	3	58.4	71.3	167.2	170.0	418.1	461.1	452.1	444.8
MSMEG _6425	MSMEG 6388	rhodanese-like domain protein	1	31.5	37.7	25.0	27.2	76.0	56.7	46.9	63.3
MSMEG _6427	MSMEG 6390	superoxide dismutase (mn)	5	11360.2	12830.2	6802.7	8154.8	5403.9	6087.0	3957.8	4732.8
MSMEG _6431	MSMEG 6392	conserved hypothetical protein	13	1507.7	1442.4	1492.3	1555.2	927.4	903.9	938.8	959.5
MSMEG _6434	MSMEG 6397	conserved hypothetical protein	2	379.1	367.8	323.6	345.0	515.4	538.3	271.5	331.0
MSMEG _6439	MSMEG 6402	protein of unknown function, TIGR01935	2	576.1	587.1	444.3	422.7	387.6	378.9	401.6	344.9
MSMEG _6440	MSMEG 6403	arylesterase/monooxygenase	1	30.7	22.2	6.7	5.3	8.4	5.8	0.7	1.8

MSMEG _6452	MSMEG 6415	aldehyde dehydrogenase family protein	6	1705.9	1574.7	1795.3	1580.8	1546.2	1431.6	1878.9	1728.1
MSMEG _6454	MSMEG 6416	Luciferase-like monooxygenase superfamily	12	3758.4	3282.9	609.6	605.1	379.9	334.9	408.1	421.2
MSMEG _6457	MSMEG 6419	conserved hypothetical protein	1	8.9	14.5	42.9	52.0	37.5	44.9	37.4	53.1
MSMEG _6458	MSMEG 6420	gltD (gltD)	1	115.3	124.9	129.0	125.8	73.6	81.6	9.2	14.2
MSMEG _6459	MSMEG 6421	glutamate synthase, large subunit	19	592.2	561.8	772.4	740.0	674.2	673.1	651.8	719.5
MSMEG _6464	MSMEG 6424	uncharacterized domain 1 protein	1	1.3	1.4	3.9	2.9	4.7	3.2	5.7	4.4
MSMEG _6467	MSMEG 6427	Dps family protein, putative	1	108.1	106.8	62.7	63.2	255.7	235.2	259.6	226.8
MSMEG _6471	MSMEG 6431	conserved hypothetical protein	1	84.6	80.7	59.1	45.0	30.9	25.1	57.7	36.0
MSMEG _6477	MSMEG 6437	peptide methionine sulfoxide reductase (msra)	1	44.5	48.9	30.4	31.3	6.6	10.7	2.9	5.4
MSMEG _6502	MSMEG 6463	hypothetical protein	4	354.4	283.9	394.5	411.4	304.9	282.1	326.7	297.0
MSMEG _6506	MSMEG 6467	unnamed protein product	1	39.3	44.9	29.9	30.7	288.7	309.1	430.3	313.7
MSMEG _6507	MSMEG 6469	glycogen operon protein GlgX (glgX)	9	778.0	792.4	468.0	458.0	764.3	828.2	730.0	731.8
MSMEG _6511	MSMEG 6473	bll7818 (fadE26)	1	185.1	194.2	143.6	153.9	136.8	138.7	101.3	106.3
MSMEG _6512	MSMEG 6474	bll7817 (fadE18)	5	634.5	601.8	486.8	462.3	928.8	846.4	825.5	805.0

MSMEG _6515	MSMEG 6477	alpha-amylase family protein	1	50.3	72.7	19.1	42.7	58.3	96.5	33.5	94.0
MSMEG _6520	MSMEG 6479	orotate phosphoribosyltransferase (EC 2.4.2.10)	3	130.3	109.7	131.0	146.2	305.2	271.4	273.2	291.0
MSMEG _6524	MSMEG 6483	ABC transporter, periplasmic binding protein	1	103.0	109.7	178.1	167.1	374.6	390.2	350.4	406.2
MSMEG _6535	MSMEG 1396	translation elongation factor G (fusA)	30	8506.0	8169.9	9041.9	8032.6	10787.6	10293.7	10491.8	9816.5
MSMEG _6561	MSMEG 6523	Itp2, putative	1	3.7	0.0	1.6	1.5	6.0	0.0	5.1	5.7
MSMEG _6565	MSMEG 6527	conserved hypothetical protein	5	736.0	783.8	584.9	598.3	649.5	686.1	619.4	621.9
MSMEG _6574	MSMEG 6535	conserved hypothetical protein	1	66.4	66.7	29.2	31.0	49.4	52.2	33.9	35.4
MSMEG _6587	MSMEG 6549	ATP-dependent helicase hrpA (hrpA)	1	3.7	4.4	1.8	2.7	5.9	6.5	3.2	5.0
MSMEG _6596	MSMEG 6557	conserved hypothetical protein	5	709.3	746.0	603.9	701.2	278.1	289.4	191.0	194.9
MSMEG _6622	MSMEG 6584	P450 heme-thiolate protein	1	235.3	286.3	177.9	164.1	35.2	46.3	42.8	45.9
MSMEG _6630	MSMEG 6591	glyoxalase family protein superfamily	5	298.0	88.3	293.3	308.8	304.7	139.2	356.8	314.4
MSMEG _6636	MSMEG 6597	superoxide dismutase (mn)	4	1738.9	1771.1	1406.5	1392.7	1423.3	1395.8	1116.5	1095.5

MSMEG _6638	MSMEG 6600	5-methyltetrahydropteroylglutamate e-homocysteine S-methyltransfera	23	4736.4	5085.6	10217.6	10050.7	1772.5	1880.5	2128.0	2035.7
MSMEG _6733	MSMEG 6692	carbon-nitrogen hydrolase family protein	1	82.1	87.0	78.6	97.0	92.6	97.4	95.6	112.9
MSMEG _6740	MSMEG 6701	1-aminocyclopropane-1-carboxylate deaminase	3	243.5	281.3	167.6	185.8	342.0	410.6	340.8	336.3
MSMEG _6741	MSMEG 6702	ANTAR domain protein	1	36.9	43.1	32.2	38.9	56.3	65.9	66.3	83.8
MSMEG _6743	MSMEG 6704	glyoxalase family protein, putative	1	40.0	39.7	53.1	49.8	35.8	38.0	36.6	31.5
MSMEG _6746	MSMEG 6707	oxidoreductase, aldo/keto reductase family	10	2381.4	2320.5	1546.8	1540.2	2409.3	2334.9	2561.4	2400.5
MSMEG _6754	MSMEG 6715	MaoC like domain protein	2	390.6	402.4	295.7	322.3	197.4	230.7	141.8	176.3
MSMEG _6756	MSMEG 6717	glycerol kinase (glpK)	1	24.8	20.2	30.3	28.4	51.0	46.8	47.0	43.2
MSMEG _6759	MSMEG 6720	glycerol kinase (glpK)	22	10985.4	10760.3	29889.0	29843.9	17852.3	17052.6	18325.0	18830.9
MSMEG _6760	MSMEG 6722	Aha1 domain superfamily	1	78.4	76.9	36.1	43.3	22.0	17.6	17.1	19.4
MSMEG _6761	MSMEG 6721	glpD2 (glpD2)	5	342.0	366.1	708.5	742.3	175.3	198.0	119.8	162.4
MSMEG _6776	MSMEG 6737	transcription regulator LysR family VC0896	1	81.7	61.5	71.2	62.4	181.3	117.4	77.3	74.0
MSMEG _6787	MSMEG 6749	sugar-phosphate isomerases, RpiB/LacA/LacB family	2	36.7	21.0	27.1	32.4	244.9	205.7	306.4	294.6

MSMEG _6816	MSMEG 6779	molybdopterin oxidoreductase	10	209.8	238.5	102.5	178.3	2213.4	2093.3	2019.7	1882.6
MSMEG _6822	MSMEG 6786	conserved hypothetical protein	3	589.7	718.2	502.6	674.9	766.6	866.8	745.0	799.7
MSMEG _6854	MSMEG 6817	aconitase (acn)	2	133.9	155.1	93.1	120.5	1.7	1.9	0.8	1.2
MSMEG _6875	MSMEG 6839	Endoribonuclease L-PSP family	1	71.0	71.4	30.0	32.6	102.1	115.8	70.0	112.0
MSMEG _6894	MSMEG 6855	ribosomal protein L9 (rplI)	8	2354.4	2556.9	2372.6	2453.8	1501.4	1647.5	1626.2	1462.8
MSMEG _6896	MSMEG 6857	single-strand binding protein homolog	5	1549.5	1680.8	1293.1	1457.8	804.5	840.8	840.5	855.3
MSMEG _6897	MSMEG 6858	ribosomal protein S6 (rpsF)	5	430.1	375.9	494.0	487.3	361.2	313.7	413.5	377.5
MSMEG _6904	MSMEG 6866	1L-myo-inositol-1-phosphate synthase	12	2975.1	2919.7	3401.1	3365.2	930.4	1017.2	962.7	1190.6
MSMEG _6907	MSMEG 6868	conserved hypothetical protein	2	163.6	148.3	124.9	127.9	191.7	175.3	209.4	176.4
MSMEG _6913	MSMEG 6872	transcriptional regulator, MarR family	1	11.2	0.0	11.1	12.1	12.9	0.0	9.2	9.9
MSMEG _6917	MSMEG 6875	leucyl-tRNA synthetase (leuS)	20	1716.7	1502.8	1190.7	1322.2	2054.4	2184.7	1760.2	2127.8
MSMEG _6926	MSMEG 6882	pcnA (pcnA)	1	0.7	0.6	1.2	1.2	1.8	1.4	0.3	0.4
MSMEG _6929	MSMEG 6886	integral membrane protein MviN, putative	1	16.0	13.3	16.8	16.9	42.5	46.3	33.2	43.7
MSMEG _6933	MSMEG 6889	thioredoxin-disulfide reductase (trxB)	3	417.4	433.6	406.6	424.1	230.2	218.6	119.5	131.2

MSMEG _6934	MSMEG 6890	thioredoxin (trx)	4	146.7	103.3	93.1	102.0	234.5	175.7	183.9	193.3
MSMEG _6941	MSMEG 6896	R3H domain protein	6	517.4	506.3	552.3	549.2	307.9	297.3	382.0	392.0
MSMEG _6947	MSMEG 6901	chromosomal replication initiator protein DnaA (dnaA)	2	32.0	38.3	8.6	19.1	108.2	124.0	33.7	51.0
MSMEG 1843	MSMEG 1843	adenosylhomocysteinase	3	906.3	977.0	1142.5	1202.9	1005.5	1070.7	764.0	880.3
MSMEG 2968	MSMEG 2968	substrate--CoA ligase, putative	3	149.7	126.6	1.3	1.8	17.6	18.4	3.1	7.5
MSMEG 3192	MSMEG 3192	maltooligosyltrehalose synthase (treY)	2	176.9	181.7	113.8	119.4	176.0	178.5	205.5	178.1
MSMEG 3892	MSMEG 3892	conserved hypothetical protein	1	22.1	19.6	8.9	11.4	7.5	8.0	1.7	3.9
MSMEG 5534	MSMEG 5534	conserved hypothetical protein	2	112.2	119.9	72.5	79.3	68.3	72.7	45.2	51.1

Supplemental Table II. List of quantified peptide charge states (PCSs).

		PCS quantitation												
		Proteins												
Locus	old locus	Tryptic peptide sequence	PCS		from protein sample S _P				A _{PCS}		from protein sample R _P			
			Chai	S _{P,1}	S _{P,2}	cS _{P,1}	cS _{P,2}	R _{P,1}	R _{P,2}	cR _{P,1}	cR _{P,2}			
MSMEG	MSMEG	K.AGTDGNQVHLALGSGAS												
_0001	0001	VGK.D	2	31.7	22.0	119.1	57.9	32.2	35.9	126.5	142.4			
		K.AGTDGNQVHLALGSGAS												
		VGK.D	3	139.7	143.2	146.8	149.6	169.0	141.4	175.3	161.8			
		R.EDFADAVAWVAR.S	2	100.3	99.1	70.5	80.9	107.5	108.7	71.6	78.9			
MSMEG	MSMEG	-MQLGLIGLGK.M	2	21.3	24.7	58.8	62.8	48.8	50.2	62.2	65.6			
_0002	0002	K.ALKEDPGFAEISGYTEDS												
		GEGR.W	3	132.2	140.4	222.3	227.2	270.4	257.4	332.2	341.9			
		K.EDPGFAEISGYTEDSGEG												
		R.W	2	26.1	26.2	51.9	51.8	23.4	25.0	22.9	27.8			
		R.SWLQSLLAK.A	2	33.1	31.8	62.4	59.4	60.3	54.2	68.5	58.5			
		R.VPMPVIAASLFAR.F	2	61.0	62.9	172.3	182.7	114.7	105.1	206.0	212.2			
		R.WTVEEAIAHR.V	3	2.1	0.1	4.2	0.8	8.4	6.6	2.1	4.0			
MSMEG	MSMEG	K.EYGADSITILEGLEAVR.K	2	193.3	184.6	71.9	58.9	231.9	192.3	80.0	72.8			
_0005	0005	K.FDGETYAVSGGLHGVGV												
		SVVNALSTR.L	3	261.1	243.9	124.9	122.2	302.3	275.2	120.0	125.1			
		K.GLTIELTDER.V	2	19.4	14.7	10.6	11.7	25.9	13.8	5.1	10.2			
		K.IC#NEQLQHWFEANPAEA												
		K.T	3	229.0	262.4	112.6	106.6	244.6	267.2	144.6	115.5			
		K.IHADGSVEVR.D	2	4.6	3.3	1.0	0.7	5.3	4.7	1.1	1.3			
		K.NTEVQSIITALGTGIHDEF												
		DISK.L	3	312.0	366.7	120.4	136.9	357.3	372.4	154.3	154.0			
		K.SELYVVEGDSAGGSAK.S	2	17.3	13.9	2.3	3.6	8.2	11.0	0.5	1.1			
		K.TPIQQSIIDFDGK.G	2	200.5	220.0	401.9	406.1	153.2	177.9	268.9	282.2			

		R.DSMFQAILPLR.G	2	79.7	71.0	15.6	15.7	92.4	70.3	22.1	15.8
		R.EGLAAVISVK.V	2	20.4	14.7	14.5	11.7	28.6	20.0	7.0	6.5
		R.STDPSKSELYVVEGDSAG									
		GSAK.S	3	29.7	32.6	30.2	19.4	42.6	49.6	27.6	23.5
		R.VFHYPGGLVDYVK.H	2	95.2	98.0	41.6	50.6	105.0	111.4	54.8	66.3
		R.VTAEEVVDDVVKDTEAP									
		K.T	2	96.9	98.4	30.2	29.1	143.7	122.6	45.2	75.2
		R.VTAEEVVDDVVKDTEAP									
		K.T	3	219.1	220.8	49.8	49.0	305.8	273.8	89.1	65.4
MSMEG	MSMEG										
_0006	0006	K.AL DALDEVIALIR.A	2	147.2	146.2	62.6	59.3	226.9	170.7	98.9	70.7
		K.AL DALDEVIALIR.A	3	10.1	8.7	0.3	0.3	11.5	13.6	0.9	1.7
		K.IEAEIADLEDILAKPER.Q	2	68.2	70.8	104.8	95.1	80.6	84.7	167.0	249.0
		K.IEAEIADLEDILAKPER.Q	3	126.3	119.1	43.3	44.4	151.4	135.8	47.9	46.4
		K.LAGISNIEDQSSDR.V	2	37.5	30.2	11.7	9.0	30.9	32.3	14.3	12.5
		K.SYEDAPYLVLATR.N	2	175.1	201.4	50.2	52.4	247.3	227.3	70.5	77.7
		R.EIDEETVDFIPNYDGR.V	2	116.8	116.9	21.0	30.6	127.7	145.1	26.9	34.3
		R.GQHVANLLAFQPEER.I	2	81.5	79.6	10.3	10.7	106.2	117.6	14.0	21.1
		R.GVVEIEEDSR.G	2	1.5	0.8	0.6	0.1	1.0	2.0	0.1	0.2
		R.IEPVDIQQQEMQR.S	2	115.8	102.0	26.5	27.3	94.0	94.4	13.7	20.8
		R.IVPADGEVSDEDLIAR.E	2	591.8	565.4	220.5	206.4	625.5	668.0	221.8	244.3
		R.LLSLNVRPDTYLLVATSG									
		GYAK.R	3	288.4	318.9	106.6	128.3	355.4	407.4	136.2	147.6
		R.LMNLAEGLTLIAIR.N	2	135.0	121.3	160.1	116.8	210.5	135.8	186.7	132.1
		R.LYVDHQLDIVR.R	3	54.8	46.5	4.6	3.7	78.6	56.4	5.4	3.7
		R.NADEDEAAESISSESADT									
		AESPEA	2	12.9	24.0	0.2	1.6	2.6	22.8	0.1	3.1
		R.SGGIVAINLR.E	2	6.1	2.8	3.4	2.5	8.6	8.3	10.9	6.1
		R.SVAETMGNYHPGDASIY									
		DTLVR.M	3	100.3	110.7	33.8	53.3	114.6	123.9	24.2	57.4
		R.TSIVITELPYQVNHDNFITS									
		IAEQVR.D	3	193.7	249.0	98.2	166.7	238.5	282.6	96.1	155.8
		R.VKGPDFPTSGLIVGTQGIE									
		DTYK.T	3	247.6	285.8	113.7	130.7	354.1	353.7	115.3	154.6
MSMEG	MSMEG	R.GVLGIGADTAQATAAELR.									
_0023	0023	R	2	237.3	284.0	175.7	216.3	148.5	145.3	215.5	199.4

		R.SRPQEPPTLAPSVEVAPK								
		P	2	23.5	22.5	11.6	13.9	9.0	8.2	4.5
		R.SRPQEPPTLAPSVEVAPK								5.3
		P	3	208.4	233.5	197.6	221.9	110.6	123.8	171.0
MSMEG	MSMEG	K.DYSTENASGGTSGPFYD								179.2
_0024	0024	GAVFHR.V	2	194.5	189.1	83.2	88.0	119.3	111.7	65.3
		K.DYSTENASGGTSGPFYD								82.4
		GAVFHR.V	3	1935.2	2251.3	1318.3	1484.3	1253.2	1364.6	1228.1
		K.TVNNFVGLAQGTK.D	2	99.5	85.2	245.1	221.7	75.6	74.8	197.3
		K.VVDIASTPTDR.S	2	3.1	2.8	0.5	0.5	2.9	2.4	0.7
		R.HTIFGEVVDEESQK.V	2	646.9	453.0	462.5	316.8	506.6	467.2	483.6
		R.HTIFGEVVDEESQK.V	3	413.9	349.8	240.0	208.5	329.9	287.8	299.4
		R.RHTIFGEVVDEESQK.V	3	86.7	95.8	19.5	24.2	48.2	54.5	19.0
		R.SDRPTEPVVIESITIA	2	91.8	99.2	30.4	29.5	67.8	72.7	28.0
		R.VIDGFM#IQGGDPTGTGR.								29.2
		G	2	201.5	195.6	102.2	110.3	123.7	138.0	100.2
		R.VIDGFM#IQGGDPTGTGR.								111.7
		G	2	219.7	221.9	103.6	113.3	130.9	144.3	100.3
		R.VIDGFMIQGGDPTGTGR.								112.4
		G	2	1158.7	1306.7	870.0	921.5	840.1	860.5	912.3
		R.VIDGFMIQGGDPTGTGR.								931.1
		G	3	89.1	91.4	48.8	41.3	61.2	50.9	40.4
MSMEG	MSMEG	K.EALQIEDVAESADR.L	2	316.7	251.6	77.2	85.2	259.6	232.3	48.9
_0033	0033									56.2
MSMEG	MSMEG	R.ITALGNQPVLIGR.A	2	11.4	11.7	25.5	31.0	18.8	21.0	21.4
_0034	0034	R.FAADDTPSPLTEFAQLR.								20.1
MSMEG	MSMEG	R.DPTVTVLIEDGHTYDTLR.								
_0042	0042	D	2	16.4	19.0	9.8	10.5	9.1	13.0	12.5
MSMEG	MSMEG	R.GVSIDGTAEIVDDPETLLR.								
_0048	0048	G	2	5.9	11.8	12.3	19.6	16.0	15.9	4.4
		R.GVSIDGTAEIVDDPETLLR.								7.1
		V	2	33.0	33.0	30.7	34.6	78.6	75.0	29.3
		R.IEFDSPDEIVEISK.V	2	28.5	38.0	195.7	210.2	20.2	37.1	127.6
										162.2
MSMEG	MSMEG	R.ALEGLVFLPSK.T	2	6.9	5.9	53.1	45.5	18.2	18.1	31.6
_0057	0056	R.ALGGVLFIDEAYTLVQER.								32.7
MSMEG	MSMEG	N	2	1.4	4.0	39.6	51.5	1.1	2.8	14.4
_0059	0058	R.IEFDSPDEIVEISK.V	2							36.9

		R.NGQTDPFGAEALDTLLAR									
		.M	2	28.7	43.5	60.8	64.7	16.5	28.2	38.3	58.6
		R.SDPWDPSSVVADTSAR.D	2	27.0	36.3	90.8	108.9	15.3	44.3	54.0	83.3
MSMEG	MSMEG	K.GVIAQVESTGSALAAQMVK.GQAGTAAQAALAR.F	3	12.3	16.7	15.7	24.3	16.5	25.7	8.8	16.2
_0065	0064	K.ASLTTLASAWGGTGSEAY									
MSMEG	MSMEG	QAVQAR.W	3	81.1	76.4	116.5	101.3	159.9	177.5	117.6	125.8
MSMEG	MSMEG	R.ILAIDADPDGGNLADR.A	2	25.9	33.2	97.8	113.1	175.2	172.2	133.9	146.8
_0067	0066	R.EFEETEWASEWDR.Q	2	0.2	0.6	22.4	33.0	0.2	0.7	8.6	26.9
MSMEG	MSMEG	R.ERLDALVADITAEDV	2	391.5	406.5	7.4	11.2	175.3	206.3	0.6	5.5
MSMEG	MSMEG	K.GAQVTVSSDDADVLAK.V	2	4.2	3.4	11.9	8.9	4.8	6.1	16.1	15.1
MSMEG	MSMEG	R.VWSSLDPDVYTVQSVVD									
_0081	0078	R.L	2	12.2	18.0	57.7	54.5	15.0	19.0	17.9	27.8
MSMEG	MSMEG	K.FVAWAVNDAIER.G	2	52.4	63.1	120.4	141.2	34.3	43.6	55.3	64.4
_0092	0090	K.FVAWAVNDAIER.G	3	7.1	5.6	1.3	0.4	6.6	7.3	1.7	1.5
		R.ADLTRPAINHYFGSK.R	3	24.1	23.0	74.0	65.1	39.4	42.1	61.6	76.1
		R.EVVEQTNTAVIAAGVAR.A	2	17.2	22.3	155.3	155.0	32.3	33.0	120.1	131.2
		R.HPDLVSEEQDALLNSR.K	2	112.3	133.7	154.2	142.4	80.2	89.8	98.6	116.1
		R.KFVAWAVNDAIER.G	2	83.9	112.9	77.9	95.2	150.0	157.3	72.1	75.1
		R.KFVAWAVNDAIER.G	3	37.9	33.6	22.3	22.7	47.3	40.1	25.2	25.8
		R.SEELAAIVDKFEMLMANK.									
		L	2	3.3	4.9	11.2	8.0	5.3	5.0	7.0	5.3
		R.SEELAAIVDKFEMLMANK.									
		L	3	9.6	9.1	29.4	30.6	16.5	13.4	26.1	23.7
		R.SSAAFLVTSVLESQR.H	2	45.3	54.7	28.2	32.7	49.8	54.1	27.5	27.1
MSMEG	MSMEG	K.GVSC#FLVPGDLPGLSFG									
_0108	0105	KPEEK.M	3	112.1	94.9	56.6	53.8	108.9	108.8	92.5	91.2
MSMEG	MSMEG	K.VNAPSEGEIAALR.D	2	13.0	17.9	123.9	111.0	31.7	34.8	137.0	101.6

MSMEG	MSMEG	R.VGDYLVATVDDSTHQMEI									
_0233	0223	R.R	3	90.9	101.6	132.2	141.7	79.3	110.1	182.7	176.3
MSMEG	MSMEG										
_0234	0224	K.ALIEQYEQFTPR.G	2	649.2	697.0	319.5	332.7	378.0	373.8	336.4	302.5
		K.EAPVIDGLTGVQR.V	2	333.3	244.7	192.3	122.3	247.3	105.7	250.5	107.7
		K.MFGLIYGGDHTDTAAR.I	2	104.1	107.4	12.1	20.3	44.8	63.7	19.9	39.5
		K.MFGLIYGGDHTDTAAR.I	3	130.0	118.6	36.7	34.9	88.1	85.4	50.0	53.5
		K.YDGDGNLVDWWTDADR.									
		T	2	205.5	231.1	72.2	79.2	95.6	117.1	78.6	88.8
		R.AGLLTDDLVAEDFAFYGR.									
		T	2	402.8	371.3	193.5	173.5	279.0	238.3	256.0	201.7
		R.AVSVENLMGDALGK.L	2	613.6	616.3	440.0	423.0	523.9	377.0	508.4	413.0
		R.DEQHAEILAGYPVHIK.M	2	38.8	40.1	6.2	6.5	16.8	18.8	3.1	8.3
		R.DEQHAEILAGYPVHIK.M	3	190.1	191.9	49.1	65.1	101.0	101.8	48.3	48.3
		R.DLITEAAASGAADGTDEQ									
		R.I	2	260.2	259.4	74.5	77.4	111.5	125.6	59.9	81.5
		R.IGDLYASFMDTQTIAER.G	2	169.2	153.1	45.8	37.8	111.4	86.7	59.7	37.4
		R.TGVGGGAGGVYVDTDSK.N	2	117.1	103.0	52.1	47.4	59.0	68.9	44.1	54.3
		R.VFFGWAQVWR.T	2	54.3	65.1	8.7	16.4	34.4	37.4	10.6	18.8
		R.VSIDELDW*TPETR.A	2	33.4	29.6	7.6	9.2	11.1	12.6	5.9	0.8
		R.VSIDELDWMPETR.A	2	298.4	312.9	216.2	235.3	158.1	149.2	212.8	195.0
MSMEG	MSMEG	K.EIEGTPVYPSLSELPVVPD									
_0238	0229	LVDVFR.R	3	52.1	62.9	46.5	57.4	43.9	85.6	29.8	55.2
		K.STGDYDIYLVNPTIK.E	2	160.0	168.6	174.0	181.1	190.2	198.8	137.1	131.4
		K.TLWLQLGLR.H	2	17.9	16.2	8.1	7.7	24.2	25.2	5.6	6.2
		R.ASYFVWTYLK.S	2	642.5	524.1	20.1	21.4	763.1	785.2	18.8	23.0
		R.DGEAAGLQVQDR.C	2	50.0	48.7	46.6	43.1	52.5	60.9	40.9	43.1
		R.FAGGLHLAGFNTGVIDSR.									
		R	3	62.7	56.1	33.1	25.4	83.9	84.5	27.7	27.2
		R.SVAIVGASANTS.R.A	2	3.0	2.2	1.4	1.0	4.4	2.6	1.4	0.6
MSMEG	MSMEG	K.FIGGHGTTLGGVAVDAGR									
_0239	0230	.F	3	470.6	405.9	425.8	388.3	426.5	403.5	429.2	425.7

MSMEG _0255	MSMEG 0246	K.FINSVQLASHLANIGDVR.T	3	43.0	36.2	11.9	1.8	100.5	80.8	23.9	19.2
		R.FGIDTTFVGGBTDPADYAA									
		AVTDR.T	2	65.6	79.0	24.5	39.0	100.6	92.5	24.6	25.9
		K.AYFIAAFPSAC#GK.T	2	615.1	598.0	49.7	56.1	693.7	645.0	69.6	53.1
		K.HQGLLAWVQEVAELTQP									
		DR.V	2	41.3	48.8	1.8	2.1	38.3	159.8	0.6	3.2
		K.HQGLLAWVQEVAELTQP									
		DR.V	3	187.4	239.9	24.9	34.1	199.8	289.0	26.2	30.7
		K.LPTGLKDEFDAL.K.H	2	309.7	304.1	274.2	316.0	414.0	419.3	218.3	300.9
		K.LPTGLKDEFDAL.K.H	3	367.6	330.4	41.2	30.7	486.0	446.8	42.9	49.0
		K.QPNSYLAISDPSDVAR.V	2	22.9	27.7	15.2	4.9	48.5	58.2	40.2	13.6
		K.TDDGDVWWEGLLEGDPQ									
		HLIDWK.G	3	118.2	185.5	8.0	24.9	114.4	177.2	7.8	15.8
		K.TIAAGNTVFTNVAK.T	2	238.7	187.9	138.7	133.6	341.6	172.2	145.8	142.5
		K.TNLAM*LQPTIEGWR.A	2	74.5	76.0	7.0	7.2	69.6	76.8	6.9	5.2
		K.VFFVNWFR.R	2	206.1	243.7	17.9	22.3	333.3	277.0	30.7	19.1
		R.AELPLIEWFEVFGEK.L	2	65.8	89.9	10.0	14.1	63.7	105.9	5.5	15.0
		R.AELPLIEWFEVFGEK.L	3	13.2	18.2	0.8	0.6	13.8	18.8	0.7	1.0
		R.AETVGDDIAWMR.F	2	235.6	241.3	22.6	31.5	293.3	254.6	26.6	25.0
		R.DWQHGVFIGATLGSEQT									
		AAAEGK.V	3	340.1	323.2	21.0	38.4	449.1	398.0	27.2	63.1
		R.EIDAGPTNNWM*DPAEM*									
		R.G	2	15.5	13.8	0.7	1.0	10.3	13.3	1.3	3.7
		R.EIDAGPTNNWMDPAEMR.									
		G	2	169.8	160.8	5.2	3.8	147.2	159.1	1.3	3.7
		R.EIWSFGSGYGGNALLGK.									
		K	2	440.7	433.0	145.7	156.6	636.5	510.0	159.1	153.8
		R.FLWPGFGENS.R.V	2	320.1	326.5	31.7	40.0	459.1	418.6	50.9	40.2
		R.IASAMAHDGWLAEHMLI									
		LK.L	3	173.2	162.6	44.2	52.4	202.8	170.3	30.5	31.5
		R.LC#AHLVEAGTFQK.L	2	88.4	67.5	15.6	9.2	110.9	83.9	3.0	4.0
		R.LC#AHLVEAGTFQK.L	3	129.5	105.7	21.9	22.7	162.8	138.4	12.2	14.2
		R.LYATNPEFGFFGVAPGTN									
		WSSNPNAMK.T	3	187.5	246.0	11.9	21.6	89.0	215.4	4.1	16.7

		R.VVFADGSDEEYER.L	2	25.0	19.6	2.1	0.6	18.2	25.9	0.4	0.6
MSMEG	MSMEG	K.ALVEGLLPVIELTLR.T	2	13.8	13.0	155.6	143.7	7.0	10.5	130.8	116.0
_0312	0301	K.VTTNEESVESQVAASDE									
MSMEG	MSMEG	RDR.I	3	36.1	26.5	43.4	40.5	117.2	144.5	89.2	113.7
		K.YSSLYEDDADASVTAR.A	2	11.8	13.2	11.1	15.8	20.8	22.5	9.0	10.5
MSMEG	MSMEG	K.FSGQGLAGELVSAGLSDA									
_0356	0347	K.A	2	24.6	29.9	12.9	19.2	8.2	9.2	9.7	8.0
MSMEG	MSMEG	R.TAVLAFLTYIDR.N	2	8.7	8.8	13.0	10.4	1.8	3.1	8.9	9.9
MSMEG	MSMEG	K.FGVIDTIDNAMVR.D	2	31.8	26.0	47.5	38.6	23.6	26.4	34.8	43.4
_0370	0363	K.LRPSDYIFVGGTEAK.V	2	7.3	8.9	6.0	8.5	14.1	8.5	6.6	6.3
		K.SDPQFAQQALSAFR.K	2	44.2	45.7	41.1	42.3	36.4	40.3	25.5	30.6
		K.SSSLDAISLAFLPSHR.R	2	9.3	9.2	9.9	10.2	9.8	6.9	2.1	3.4
		K.SSSLDAISLAFLPSHR.R	3	10.3	9.7	0.8	1.2	9.2	7.6	1.1	1.0
		K.SVGGLEQFVR.E	2	19.6	16.0	13.5	13.0	11.1	12.0	8.5	12.9
		K.VAALQADLAAAEDVYAAA									
		R.K	2	19.9	17.9	5.9	9.7	18.8	19.0	5.9	10.1
		R.LQDELDLLVSDNPDVKEK.L	2	17.8	18.3	1.1	0.8	15.9	14.4	1.2	1.3
		R.VNTGLGAVEFNR.G	2	26.2	26.2	6.3	6.8	15.0	19.1	8.1	6.2
		R.WAAGGYDASVFR.E	2	3.7	4.2	19.6	15.2	3.7	6.8	16.8	12.3
MSMEG	MSMEG	R.AVGALPFVTR.S	2	55.7	62.4	143.9	146.8	54.2	54.7	99.9	104.5
_0371	0364	R.HYAAVGGDHNPPIHTNAIA									
		AK.L	3	0.3	0.1	0.2	0.1	1.1	0.4	0.2	0.4
		R.HYAAVGGDHNPPIHTNAIA									
		AK.L	4	2.9	1.6	1.1	0.3	5.1	3.9	3.0	2.1
MSMEG	MSMEG	K.AGMIGLAEALAPVLADK.G	2	251.8	216.8	173.9	152.4	124.5	107.7	144.4	117.4
_0372	0365	K.ELYTFFTPPLLR.N	2	114.8	103.5	66.9	74.5	94.5	82.9	97.7	79.3
		R.GIGATIAEVFAR.D	2	137.9	119.7	50.1	51.0	87.8	73.5	70.6	59.6
		R.TALADDYNLVSNINIGGR.									
		W	2	239.3	228.2	246.4	234.3	178.9	161.1	423.3	372.2

		R.TALADDYNLVSNNIGGR.									
		W	3	28.9	25.6	59.0	27.5	125.6	92.7	806.1	480.2
		R.VVVVGTPAEGSVHAQV									
		VQR.A	2	36.4	18.5	14.9	4.0	16.8	17.7	16.7	13.4
		R.VVVVGTPAEGSVHAQV									
		VQR.A	3	1472.1	1232.5	1112.4	1040.3	921.2	984.3	1218.0	1278.0
		R.YRP GDPPLAGSLLIGGSG									
		R.V	3	75.8	63.8	31.2	32.4	42.6	43.1	25.3	25.9
MSMEG	MSMEG	K.LNVNGSSLAAAGHPFAATG									
_0373	0366	GR.I	3	135.7	159.2	127.3	104.3	111.1	122.6	157.0	153.0
		K.LPASLGVEIPVNSEPR.T	2	348.1	353.9	500.8	558.4	201.6	200.6	380.5	380.9
		R.FNLAGEQLGAVIGGAVLK.									
		H	2	232.5	207.3	202.5	177.7	138.6	129.1	248.8	220.7
MSMEG	MSMEG	K.VSNQTNNAFTSC#LLK.A	2	53.0	80.4	54.0	61.9	57.8	76.8	43.1	46.7
MSMEG	MSMEG	R.DILVITTPADAPAFR.R	2	32.9	37.8	323.7	314.1	50.0	55.8	331.9	321.6
MSMEG	MSMEG	K.WTLDDGLPALLDWIAK.S	2	16.1	23.5	25.3	31.1	9.4	10.9	10.6	18.1
MSMEG	MSMEG	R.SVTMTADDSVPEETSIGR.									
_0387	0380	I	2	93.2	93.9	20.8	24.1	68.0	85.3	22.0	30.6
MSMEG	MSMEG	R.DLGLDWPPADALTMIGMTR									
_0388	0381	.L	2	25.1	26.1	31.9	39.6	47.2	57.6	40.5	47.4
		R.LDGDLYESTIQALDGLYER									
		.L	2	56.4	44.2	57.2	63.8	77.0	97.8	62.8	71.0
		R.LHLAAPILAVSEQDVR.A	2	38.2	42.6	67.9	69.7	79.7	73.8	80.6	81.1
		R.LHLAAPILAVSEQDVR.A	3	89.6	91.1	134.5	131.4	178.7	174.0	171.0	166.8
		R.VWLC#DSFAGVPAPDAAK									
		.Y	2	41.1	40.8	67.7	70.3	50.8	65.6	106.0	114.8
		R.VWLC*DSFAGVPAPDAAK									
		.Y	2	37.4	37.6	67.7	70.3	49.2	65.1	106.0	114.8
MSMEG	MSMEG	K.TFYLLDTFAGLDPR.Y	2	69.7	66.7	101.5	92.0	74.4	73.3	105.9	107.2
_0391	0384	R.LSPGAFVLLDDYANR.G	2	146.9	148.3	247.8	263.9	190.2	191.8	276.8	280.5
MSMEG	MSMEG	K.NLDALESVVDR.V	2	18.1	22.8	55.1	58.0	24.5	34.1	51.2	58.0
_0393	0386	R.FDVFLTEVAR.V	2	0.8	2.2	50.4	42.6	4.1	4.2	74.6	60.8

R.TFRPATYTGLDLNSDGINF													
MSMEG		MSMEG		C*R.R	3	7.4	6.4	76.6	93.8	12.4	14.7	60.1	71.5
_0394		0387		R.VLRPGGYFLYTDAR.P	3	4.7	9.2	34.5	34.1	10.1	5.1	23.5	16.1
MSMEG	MSMEG	R.GLDWLAAPK.R	2	10.9	7.0	22.5	15.9	55.2	45.1	29.3	27.3		
		R.GSSPIEGTQVSAEDSAVD											
		GK	2	5.5	4.3	15.3	13.0	8.6	10.1	17.4	21.8		
		R.GSSPIEGTQVSAEDSAVD											
		GK	3	0.8	0.6	2.6	1.3	1.3	1.8	2.2	3.7		
		R.VPLFFMLMPR.G	2	0.4	0.5	1.6	2.1	5.8	1.5	3.9	2.1		
MSMEG	MSMEG	K.AGAAYVPVDPAVPAAR.V	2	106.8	101.5	138.5	130.6	170.5	154.2	158.1	135.9		
		K.DAAPVAAVSSADLC#TRL.L	2	28.7	31.5	21.0	22.9	36.4	42.7	22.7	25.8		
		K.DAAPVAAVSSADLC#TRL.L	3	6.3	6.5	0.9	1.9	11.0	15.8	0.3	1.4		
		K.DAAPVAAVSSADLC*TRL.L	2	27.9	30.3	21.0	22.7	36.4	42.2	22.5	25.7		
		K.IDGVVDHGLLQQAIR.Q	2	9.7	10.7	53.2	42.1	25.8	20.6	81.4	47.8		
		K.IDGVVDHGLLQQAIR.Q	3	29.4	32.2	24.2	22.8	41.1	46.8	27.8	29.7		
		K.LQTVVFGGEALEPHR.L	2	14.8	14.6	26.6	20.4	36.4	25.9	20.0	16.7		
		K.LQTVVFGGEALEPHR.L	3	74.4	70.4	43.6	43.7	99.8	108.3	48.1	53.8		
		K.NAYTPSASVPMMDPAIVGR.											
		I	2	22.2	23.3	19.2	20.0	31.5	33.8	18.7	18.5		
		K.NLTHLIAVLEER.L	2	15.2	13.0	11.3	12.0	26.6	24.5	14.9	13.4		
		K.NLTHLIAVLEER.L	3	11.8	9.0	8.4	7.0	18.5	18.3	6.7	8.6		
		K.PAALPAVQPDTDTHASAG											
		R.F	3	3.0	3.3	1.0	1.7	4.2	5.0	0.5	1.5		
		K.TGAAYLPIDPAHPDAR.I	2	11.8	8.9	4.5	14.9	42.0	21.1	22.5	10.9		
		K.TGAAYLPIDPAHPDAR.I	3	48.4	45.6	39.4	39.9	68.6	72.4	41.8	41.5		
		K.YPVALTVADVWAQVVA											
		GEATLGAVVK.D	3	11.3	13.5	10.5	13.6	10.5	19.4	5.4	11.9		
		R.ATSGVATTVTDLLGQLQR											
		.D	2	69.6	65.1	102.2	118.1	114.9	93.5	166.2	140.1		
		R.AVPDGLTYGLLR.Y	2	36.9	34.3	40.2	33.0	62.1	54.8	47.8	40.7		
		R.DAAQAAWGSVLEGFETP											
		TLVAPPAQAGPR.G	3	33.3	47.9	41.0	51.4	22.9	52.4	11.6	38.7		

R.DHNDTVDHEHM*ALNEIH									
R.L	4	3.6	1.7	2.8	0.9	2.9	3.0	1.0	1.3
R.DHNDTVDHEHM*ALNEIH									
R.L	5	3.0	1.2	1.7	0.6	2.4	2.3	0.5	0.8
R.DHNDTVDHEHMALNEIHR									
.L	3	2.9	2.1	2.4	2.0	8.0	4.2	5.0	3.6
R.DHNDTVDHEHMALNEIHR									
.L	4	10.7	10.9	8.8	9.9	12.0	15.8	6.9	8.9
R.DHNDTVDHEHMALNEIHR									
.L	5	9.2	9.0	7.6	7.2	11.2	13.0	6.0	7.6
R.EYNHYPLSMVATPGHEVV									
LR.V	4	15.7	18.8	10.1	12.9	19.3	25.6	10.3	14.9
R.FILDDASPVAVVTTAELR.									
S	2	50.6	43.2	69.0	52.2	83.6	76.4	74.1	55.8
R.FILDDASPVAVVTTAELR.									
S	3	5.9	7.4	6.5	13.2	9.8	13.3	4.4	12.7
R.FVAC#PFGAPGAR.M	2	13.4	15.5	8.9	10.0	18.6	22.1	5.3	10.0
R.IELGEVQSALAALDGVESAA									
AAIM*R.E	3	11.7	14.8	8.4	13.3	11.8	16.5	10.6	11.0
R.ILLEDLNIAWAQHHSGQQ									
VQLPAGGTSFLR.W	4	21.2	20.8	31.0	26.5	25.6	29.4	30.5	31.1
R.ISTIYTSVTGK.P	2	36.3	33.9	19.1	17.9	19.7	22.5	8.2	7.1
R.ISTIYTSVTGKPVPEAYF									
GSLR.D	3	16.6	16.8	14.3	11.3	35.4	39.0	18.4	20.0
R.LADHAHTAEVTAQADAW									
R.E	3	13.7	12.8	11.3	9.3	21.3	22.7	10.0	13.9
R.LADHAHTAEVTAQADAW									
R.E	4	14.2	14.7	8.9	8.1	16.6	22.6	5.8	8.7
R.LATIGNHSALSESESAPDAVS									
IPER.F	3	91.3	110.9	111.5	125.4	130.2	131.8	91.2	90.9
R.LAVNFIPSR.L	2	35.0	33.3	30.7	31.6	51.5	50.3	26.6	29.3
R.LGAGAGELSEELWR.I	2	133.8	148.5	136.4	141.3	154.6	200.5	127.3	146.0
R.LGAIVAAMAADPAMPLAA									
VR.L	2	14.5	12.7	469.5	396.6	18.8	18.6	646.2	409.5
R.LLM*VPDAVVR.S	2	7.9	8.2	47.2	41.9	13.8	13.1	54.0	47.7
R.LPPYMVPTAIVVLPALPLT									
SSNK.L	3	18.0	26.3	13.1	22.3	19.9	29.5	5.7	15.5

		R.LSGWMHAHGM.P.R.M	3	3.8	4.3	7.1	4.1	4.2	5.6	1.8	1.3
		R.LSTIDLLDPQEHDRLDEW									
		GNR.A	3	10.8	11.2	12.3	11.9	26.0	23.1	10.3	10.2
		R.LVGYITGTADPVDIR.A	2	71.1	69.8	142.5	126.1	98.3	101.7	172.9	135.3
		R.NFVTWLGAQDR.D	2	31.9	25.8	27.4	23.9	40.2	40.8	19.3	21.6
		R.PAPALESIPASFAESVR.R	2	59.1	52.3	97.4	81.4	83.6	75.7	106.7	88.4
		R.PAPALESIPASFAESVR.R	3	7.8	7.7	2.8	5.3	8.4	12.1	0.7	3.1
		R.PVDSLADSMVGLLINTV									
		PVR.A	3	9.5	10.0	9.4	9.4	6.3	7.6	3.6	5.5
		R.SVIALGAFK.A	2	23.7	19.5	19.3	15.5	42.1	35.2	25.5	19.1
		R.TGEAVVTILAILK.T	2	3.0	3.1	1.4	1.8	16.2	10.8	6.5	3.5
		R.VAEAPDAAALTFEGR.T	2	71.7	74.0	84.3	86.0	118.4	107.4	101.4	94.4
		R.VQDSDGEWSLLVPDAAT									
		VDAR.D	2	14.3	14.0	11.7	12.0	21.5	24.5	5.8	12.0
		R.WGADGQLQYVGR.A	2	26.4	30.5	44.1	50.4	31.0	42.2	41.7	52.3
MSMEG	MSMEG										
_0401	0391	K.YPVALDFDR.N	2	33.9	31.2	26.0	29.7	51.3	53.5	31.4	30.4
		R.ALPAPEYQDADQYR.A	2	79.2	79.6	73.3	72.3	105.0	106.4	76.6	70.6
		R.ALPAPEYQDADQYR.A	3	4.7	6.9	3.2	3.1	3.9	9.8	0.5	4.2
		R.AQLNPATGSMLTAAWVP									
		ETR.Q	2	13.5	13.0	64.5	67.4	20.0	21.4	70.7	62.4
		R.AQLNPATGSMLTAAWVP									
		ETR.Q	3	14.9	21.3	12.6	22.6	19.7	26.2	6.5	17.3
		R.AVESFQVSAETTQALGEL									
		AR.S	2	13.6	12.6	2.1	2.2	19.5	17.2	5.5	3.5
		R.EYNHYPLSVQAVPGHELG									
		LR.V	3	28.9	26.8	54.8	45.4	48.8	45.1	60.6	53.9
		R.FVSWLAEQDNDAAR.A	2	186.7	166.0	151.4	132.7	140.4	139.5	118.9	110.9
		R.GVFSGFETPTLVGTPGLA									
		LGR.R	2	81.2	75.2	64.9	56.6	98.1	92.1	66.4	60.7
		R.ILEDLNIAWAQHR.S	2	5.5	3.1	4.3	4.3	21.6	10.4	7.9	4.1
		R.ILEDLNIAWAQHR.S	3	22.7	21.2	17.2	19.4	45.0	40.0	21.3	21.1
		R.LDPDAVSLTAAGGR.V	2	39.3	34.4	28.6	25.2	31.3	37.4	16.1	18.6
		R.LGAGAADLSDDLWR.L	2	141.8	151.7	40.3	41.5	147.9	174.5	36.1	50.0
		R.SDIDAQIAQISAAER.A	2	41.7	48.1	46.1	45.0	58.6	59.1	45.2	44.1

		R.SGQPVLPTPGTSFGR.W	2	87.0	87.1	93.5	89.8	129.9	124.1	97.2	83.8
		R.SVPDGLTYGLLR.Y	2	31.7	29.9	23.9	22.9	48.1	47.3	21.3	25.3
		R.TADVLATADVWR.T	2	26.9	24.5	36.8	34.5	33.4	38.6	36.2	40.3
		R.TEELFGDADLSR.T	2	56.5	57.0	55.1	55.7	81.1	75.3	52.9	50.1
		R.YLNPDVELDNPDPFIGFN									
		YLGR.L	3	26.0	26.4	18.4	21.6	19.1	39.7	8.1	22.2
MSMEG	MSMEG										
_0402	0392	K.GATFVLDEWLR.P	2	5.3	4.6	1.4	1.9	5.0	4.0	1.5	1.7
		K.GQPNLGLDEQTWQR.L	2	29.1	30.0	13.9	14.6	27.2	30.8	9.1	13.4
		K.LDGVVDQAVVIAR.E	2	67.1	59.0	38.1	41.4	73.4	66.1	39.8	37.3
		K.LKPFNFVSTSDVGR.Q	3	23.5	24.3	31.2	30.6	23.9	27.0	21.0	20.7
		K.PGATVAFLIPR.S	2	17.1	16.2	14.4	15.6	23.7	20.5	17.6	18.0
		K.TGAAYLPIDPSVPAAR.L	2	84.4	84.6	76.7	69.5	91.9	90.4	79.5	73.9
		K.TGAAYLPVDPAHPDAR.I	2	30.3	23.7	65.1	45.8	34.4	29.1	49.5	44.5
		K.TGAAYLPVDPAHPDAR.I	3	32.8	33.1	22.0	23.0	37.5	38.6	19.6	24.1
		K.TLAGIFAHVLGVER.I	2	5.2	4.6	2.2	2.2	15.8	10.3	8.5	5.5
		K.TLAGIFAHVLGVER.I	3	2.8	2.3	0.6	0.5	7.2	5.7	2.8	1.7
		K.VSADTTVGDLLR.Q	2	31.6	28.8	32.8	32.1	36.1	34.5	21.7	21.9
		K.WAGEVLLR.E	2	16.9	13.9	0.3	0.0	1.8	2.3	0.4	0.1
		K.YPVALTVENLPWEQVVAG									
		DAALGGIVK.A	3	31.2	35.6	24.9	26.9	19.8	36.0	12.4	23.5
		R.APSTPAEQILADVYAQVL									
		GVER.V	3	12.4	15.8	10.8	14.8	12.0	14.9	6.4	10.3
		R.ASWTWAPSAFDEEQATR									
		.L	2	28.5	30.2	24.5	24.8	36.6	39.2	17.5	25.7
		R.AVLTDPGPTPVТИPALFAE									
		QVVR.A	3	21.9	26.7	17.6	23.9	23.5	33.4	17.4	23.3
		R.AVLTQPVDSPQSIPREVFA									
		R.Q	2	26.6	25.3	16.9	17.0	32.1	29.9	13.8	16.3
		R.EVLDGFETPTLVAPPGV									
		GPR.G	2	27.4	26.5	24.3	42.3	39.5	35.4	73.1	24.6
		R.FEAALQQLSDQQQR.Q	2	41.8	43.8	37.1	37.9	43.7	48.7	36.6	41.2
		R.GDDLTPDHEIEQLC#AAE									
		R.S	3	12.8	14.7	13.0	17.0	16.8	19.6	12.9	14.9
		R.IEDFGEWLQR.F	2	15.4	14.4	10.3	9.8	16.3	16.4	10.4	8.1
		R.IELGEIQAALAK.L	2	34.5	31.8	22.7	30.9	48.9	41.9	35.4	37.9

R.LEATFDTDPLLR.K	2	70.7	60.1	89.1	67.6	67.0	59.1	91.1	68.8		
R.LEFMLGDAKPVAAVTTGD											
LR.S	3	27.7	30.9	73.1	58.3	34.8	30.9	90.1	66.7		
R.LLEAMIDDPAR.R	2	11.1	12.1	160.1	178.9	8.9	11.7	75.1	70.4		
R.LVGYITGTADPAAR.S	2	60.1	65.8	51.5	53.9	62.6	67.1	46.3	50.7		
R.LVGYITGTADPAQLR.T	2	48.2	50.8	43.1	46.5	62.8	56.8	45.1	49.0		
R.LVVVPESVGSSPDDLHNL											
LITEK.V	3	130.3	130.3	120.1	111.6	154.7	161.1	120.4	120.5		
R.NFVNWLATQDATAAK.A	2	45.1	46.1	50.7	52.1	68.9	61.6	63.9	61.1		
R.PADLAGAESMVGLLINTV											
PIR.A	3	20.0	19.0	13.1	15.2	14.0	15.8	9.9	11.2		
R.RLEATFDTDPLLR.K	3	3.4	2.9	4.2	3.3	5.2	6.4	7.3	5.9		
R.SADAIVAILAVLK.T	2	4.4	3.5	2.5	2.1	11.0	6.8	6.8	4.2		
R.SGEAILSILSVLK.T	2	16.0	15.6	12.3	11.7	20.5	15.9	14.2	10.5		
R.SLPEGLTYGLLR.Y	2	25.0	23.4	12.6	11.6	29.1	30.0	10.5	11.1		
R.TATTLPDPDGAVQTVLLT											
GATGFLGR.Y	3	42.9	57.3	57.5	50.8	61.6	60.3	64.4	55.5		
R.TVDALTDDVLVEAR.N	2	35.1	34.6	34.1	30.2	42.6	44.4	33.4	29.5		
R.VAVAAGESHVVDEGVGP											
VVATPIMR.W	3	110.4	107.8	63.4	68.5	103.6	82.0	59.1	61.6		
R.VEYDTSVFDVSEIETLIDR.											
F	2	77.3	70.8	101.3	93.0	65.6	64.3	83.4	81.9		
R.VSFAAVHGSDVTEVHAR.											
D	3	5.8	5.4	5.7	3.2	9.4	7.1	5.7	5.2		
R.VSFAAVHGSDVTEVHAR.											
D	4	13.7	11.1	7.3	5.8	14.5	15.0	5.3	6.3		
R.YDELASDVDSR.T	2	40.5	36.8	32.5	29.3	32.5	39.7	23.8	27.6		
R.YDVTDVDPLTPVQQGLLF											
HSTFAR.G	3	51.6	47.3	44.2	40.1	56.7	60.2	51.0	46.2		
R.YLLWEWLR.Q	2	7.3	6.4	3.1	3.0	10.9	8.4	5.2	3.3		
R.YLNPEVDLGGSDPTIGFN											
YLGR.L	2	12.5	9.9	6.4	5.3	10.0	14.8	3.6	4.8		
R.YLNPEVDLGGSDPTIGFN											
YLGR.L	3	20.0	19.4	15.5	18.7	21.2	22.8	16.1	16.0		
MSMEG	MSMEG										
_0406	0396	K.AIATLSTGYLNAYEYAK.E	2	105.0	109.8	172.1	160.7	36.7	45.9	99.7	87.0

		R.DKGQALAYVAGEIEQFIK.									
		N	2	3.5	4.4	32.1	32.9	1.5	1.0	21.7	25.8
		R.DQVFNLFEVFGVDK.V	2	58.6	60.7	127.5	140.1	34.1	35.8	124.4	127.5
		R.VNDLLLPIVK.G	2	23.8	21.9	70.0	63.3	5.3	3.2	34.6	28.7
MSMEG _0408	MSMEG 0398	K.DLESAVATLVADGVR.C	2	6.1	7.8	5.2	4.9	8.8	10.2	4.3	4.9
		K.DLESAVATLVADGVR.C	3	1.3	1.6	0.2	0.1	2.3	2.7	0.1	0.1
MSMEG _0415	MSMEG 0405	K.TFDASADGYVR.S	2	2.1	1.3	0.2	0.1	1.2	1.9	0.0	0.0
		K.VLGSARPPILDVLPSAAG									
		EATGDSELLK.Q	3	30.2	33.0	28.3	33.9	37.7	37.4	38.1	38.9
		R.AGFVTEFLQR.E	2	8.9	9.4	1.1	1.2	11.2	10.3	0.4	1.7
		R.ELFDTEPVFAETVR.K	2	17.7	17.6	43.0	45.8	22.3	24.4	49.8	51.1
		R.ELFDTQPVFAQTVR.Q	2	41.9	26.2	66.0	63.4	35.5	25.7	55.1	60.6
		R.ESAIELLGALADDRPAPGL									
		VR.G	3	11.0	12.3	3.8	6.1	24.0	17.5	9.3	7.7
		R.FPGAASAEEYWALLR.D	2	8.3	7.9	5.0	3.7	9.3	11.6	3.7	4.7
		R.GAGFSGVVWR.C	2	2.5	2.1	2.3	1.1	2.3	4.2	0.2	0.1
		R.IHTYAADVGDDEAQVADLL									
		AR.I	3	12.1	14.8	2.9	4.0	18.1	19.6	4.0	5.6
		R.KLDLPTYPFEHR.Q	3	4.7	4.1	0.3	0.4	5.8	6.0	0.2	1.1
		R.LEAEITNLLSAVHAAQGPS									
		VK.L	3	18.2	18.1	16.1	20.8	26.9	25.6	21.9	21.8
		R.LKDVFFYEPPIILPEK.A	3	5.2	6.0	6.1	8.2	8.6	9.1	6.5	7.8
		R.LSDAADYLLVEVLGLGEQ									
		TNVR.Q	3	5.1	5.8	1.2	1.0	8.6	8.4	3.1	2.6
		R.LTETDVPEPDEGYVQVR.									
		V	2	15.8	17.5	10.6	11.5	17.2	19.6	12.2	8.9
		R.PLLDVLVFATDR.E	2	8.3	6.8	1.2	1.0	9.9	7.3	1.3	0.8
		R.SPIWLVTR.D	2	5.0	4.5	3.0	7.9	5.2	7.1	5.6	3.9
		R.TGAVLTGQTPLDAQYWR.									
		R	2	11.3	10.6	2.7	2.5	12.0	14.8	1.9	2.0
MSMEG _0415	MSMEG 0405	K.DLPSLGISVLGEAHDTAAR									
		.T	2	31.8	0.0	4.6	0.0	25.8	27.1	3.5	5.1
		K.LKDLPSLGISVLGEAHDTA									
		AR.T	3	28.4	29.1	13.1	13.5	43.3	44.5	13.8	13.7
MSMEG _0415	MSMEG 0405	R.VSDIVVNDDVAPIVFHR.S	2	10.1	10.0	17.5	21.0	31.6	18.2	17.8	18.8

MSMEG	MSMEG	R.VSDIVVNDDVAPIVFHR.S	3	134.5	129.8	48.8	59.4	136.8	140.6	47.8	47.9
_0422	0413	K.SDGENMAFEDLLTR.V	2	62.1	68.3	174.8	170.3	55.0	59.6	161.5	173.1
		R.AAADAAGVHVVINAR.T	2	5.4	5.3	30.4	24.0	5.1	4.9	19.4	13.5
		R.AAADAAGVHVVINAR.T	3	18.3	16.5	64.9	58.3	28.7	23.5	52.2	47.1
		R.FTSAVSLPVSVTVPEDT									
		DK.A	2	7.3	6.7	51.6	53.2	2.3	5.2	8.0	14.0
		R.ITFGPFLQWLGAQAK.E	2	44.6	40.3	224.7	203.8	72.0	69.3	188.0	190.4
		R.LAVDAGFAALTGVSHPVA									
		DSIGK.S	3	87.5	96.1	286.9	286.7	104.8	111.6	277.0	270.8
		R.LIEGLLDAGVVGFNLEDTV									
		HK.E	3	11.7	12.0	87.4	85.6	16.7	14.2	59.9	53.3
		R.MSEAAAAGADSLFPAGLR									
		.D	2	29.6	30.2	126.7	132.5	36.2	52.2	93.1	103.3
MSMEG	MSMEG	K.LIPGPDWGSGASVVGTA									
_0456	0447	GLR.E	2	66.5	62.8	171.1	171.6	85.5	78.9	97.9	39.4
		R.VDPASVNPQGVAGNGVA									
		GVK.L	2	94.0	104.1	19.6	29.9	102.1	145.0	11.9	29.4
MSMEG	MSMEG	R.ILFDPAIAPDSTLDIGEVLL									
_0457	0448	R.A	2	40.4	45.6	3.3	5.1	39.9	60.1	1.9	6.2
		R.LRPAVNLGLDVNLNTALR.E	3	28.2	32.1	10.6	13.1	36.9	33.7	11.0	12.3
MSMEG	MSMEG	K.GGVEFPGSDAVDVLFDR.									
_0464	0456	D	2	109.5	114.8	96.8	94.8	95.2	96.9	81.6	81.8
		R.EILPLATVTTPNLFEAR.T	2	140.7	137.4	171.7	173.9	117.2	122.9	175.3	144.0
		R.TLSGMDEITVDDLIEAAR.									
		R	2	47.5	47.0	41.2	38.7	52.0	49.3	50.7	46.2
		R.VAGAGC*TLAAAITAELAK.									
		G	2	38.5	38.4	86.9	85.4	39.6	41.8	63.3	58.5
MSMEG	MSMEG	R.GIGAEVAQQLATSGTHSIV									
_0530	0520	NYR.A	3	32.8	45.5	266.4	289.2	78.2	71.4	284.2	273.1
		R.LDALVLTALGGPR.V	2	2.9	4.0	11.3	9.9	9.9	10.8	18.4	13.3
MSMEG	MSMEG	K.IFTIFEGTSEIQR.L	2	159.1	156.8	53.2	49.7	147.7	118.3	60.0	61.7

		K.LGAFCSSEPDAGSDVGA									
MSMEG	MSMEG	IR.T	2	103.4	108.5	139.7	141.3	99.1	106.0	94.3	104.5
_0550	0541	K.VVDVYSQPEWTALVVAK.									
		D	2	224.6	219.1	141.2	152.2	255.3	261.2	105.4	104.0
		R.EDFSAAHPDTVQAVVNSY									
		EEAR.T	3	193.7	208.7	180.8	212.6	386.9	410.9	106.5	126.7
		R.LDYAYYNPLSLVVR.D	2	144.4	165.4	146.1	173.0	171.7	169.7	80.1	89.1
		R.NPEFNSYGVLNVR.E	2	87.9	98.5	95.2	96.3	119.6	117.2	67.0	72.0
		R.SNALDFGSTAGSAALVAR									
		.A	2	130.0	139.1	118.0	124.9	213.1	206.3	68.0	73.7
		R.TWALEHPAELTTLLAQEA									
		K.I	3	80.1	81.3	78.6	70.8	124.7	110.3	39.5	32.8
MSMEG	MSMEG	R.VLLLDEPLAALDALTR.L	2	36.7	37.5	18.5	18.7	53.6	56.1	17.7	18.9
_0551	0542	K.GFESAIYFYGPGSINC*LA									
MSMEG	MSMEG	TR.G	2	13.3	18.8	145.8	160.1	18.8	17.6	148.3	144.0
_0572	0563	K.SSLAEIPHAPLK.G	2	1.5	1.9	1719.2	2141.9	0.9	1.8	1944.1	1508.1
		K.TGDSGFPGEQNINDALAT									
		FIK.E	2	10.0	13.1	1049.9	1126.6	8.3	10.2	919.4	820.3
		K.TGDSGFPGEQNINDALAT									
		FIK.E	3	0.9	1.0	352.9	276.7	1.1	1.0	292.5	273.0
		R.EEDLIEGVIPAHPLDVQDA									
		LIYYAR.K	3	45.2	46.2	542.1	648.3	40.0	49.2	201.8	260.6
MSMEG	MSMEG	R.EVIFLDELPR.N	2	6.7	12.2	27.3	26.8	9.9	9.4	32.9	33.2
_0599	0590	R.IIMLNTEFSGPQIK.E	2	19.2	21.9	140.7	157.3	27.9	20.8	132.2	118.7
MSMEG	MSMEG	R.DGQFDQIEQNAGQLIAE									
_0603	0594	GHAAK.V	3	18.6	16.7	54.4	43.1	31.5	39.3	49.5	35.3
MSMEG	MSMEG	R.LDGIALLITGFLPQR.F	2	1.2	0.8	4.0	2.6	0.5	0.5	6.7	21.3
_0613	0603	R.LPWADGTVVYELDVPK.V	2	87.6	98.7	32.4	34.0	25.1	28.0	15.7	24.0
MSMEG	MSMEG	R.YVAEAIDAGTQIFK.A	2	69.2	74.4	78.0	98.7	58.9	64.3	72.6	81.0
MSMEG	MSMEG	K.NWDEFADTLTEDVR.G	2	91.7	60.0	27.8	19.3	119.3	135.9	21.7	24.4

		R.GDYGQSLGEALHFTDR.A	2	71.4	80.2	12.6	16.7	85.0	78.7	7.8	5.3
		R.GDYGQSLGEALHFTDR.A	3	65.8	62.6	20.4	17.1	94.4	93.3	11.6	12.6
		R.VAHPEITVDGDEATGTWY									
		LQDR.V	3	185.6	208.9	67.7	75.7	230.1	254.9	44.9	48.8
MSMEG	MSMEG										
_0640	0632	K.SVTAQTLIGLTR.A	2	11.0	10.3	49.3	46.7	19.5	15.8	20.3	27.9
MSMEG	MSMEG										
_0643	0635	K.DAGADEVADAHVDK.I	2	1.7	1.1	10.0	5.1	9.0	6.6	9.8	8.1
		K.DAGADEVADAHVDK.I	3	3.6	2.2	19.9	12.4	12.1	10.9	17.2	18.9
		K.GEEGAEVAPGLAEDMPE									
		VSPDGK.T	2	43.9	52.5	385.9	374.5	25.5	63.1	166.6	241.5
		K.MNELLTQQQLTDETK.K	2	109.1	104.5	676.8	668.9	262.0	293.9	666.1	739.3
		K.MNELLTQQQLTDETKK.G	2	11.3	13.4	94.2	79.5	24.0	27.1	85.3	95.7
		K.MNELLTQQQLTDETKK.G	3	29.1	35.9	201.6	186.5	39.9	39.4	156.6	190.8
		K.TDFM#HDPPDADRLPEVK									
		.A	4	3.3	4.1	26.6	28.5	0.7	2.3	2.9	10.3
		K.TDFMHDPDADRLPEVK.									
		A	4	9.3	9.7	99.1	92.0	5.0	8.6	27.9	32.4
		R.AYMEQAVWAPYGNEQLA									
		TFLSDR.M	2	3.7	8.2	47.2	64.1	1.2	7.9	14.6	36.4
		R.DITVWTDDEPDR.K	2	35.8	40.4	339.1	263.9	17.4	20.6	124.7	109.1
		R.IGEYYHDVLTQLGFNATLK									
		.V	2	16.0	13.6	104.6	102.7	16.5	16.4	71.4	88.4
		R.IGEYYHDVLTQLGFNATLK									
		.V	3	144.5	151.1	746.5	722.5	323.8	297.2	724.1	652.1
		R.QAVNYAIDPEALNR.V	2	23.0	30.5	230.1	225.2	40.9	46.3	197.2	221.7
		R.SYHHVLFNQDFTSFALK	2	2.3	4.0	93.2	100.3	4.2	5.5	49.9	87.7
		R.SYHHVLFNQDFTSFALK	3	34.8	31.5	312.3	281.7	104.2	100.7	264.9	243.2
MSMEG	MSMEG	R.HDDLASALAATDLDEDDL									
_0683	0675	AG	2	21.0	24.7	32.4	42.9	16.8	20.9	29.1	35.2
		R.WAEAAGISVTPGR.M	2	10.3	11.8	14.8	19.4	10.0	9.9	11.1	13.0
MSMEG	MSMEG										
_0688	0680	K.AIVVINPNNPTGAVYSR.E	2	72.7	69.1	307.2	370.6	71.6	59.1	160.9	248.7
MSMEG	MSMEG	K.AAAAAPPVEAAPEAEAP									
_0690	0682	AAPAAGGAEAK.P	3	26.9	36.5	31.7	43.0	11.9	20.8	13.7	26.7

MSMEG		MSMEG		K.AEVLDVAQLLLNSLDTSK.	V	2	39.9	38.7	44.4	44.2	40.3	38.7	39.6	36.4
		MSMEG		K.AEVLDVAQLLLNSLDTSK.	V	3	17.2	17.7	20.7	19.4	17.9	16.4	18.5	15.7
		MSMEG		K.APYILGEKPSPLESTPEGG	LGEK.A	3	96.5	108.5	135.8	154.9	111.2	115.7	120.6	134.2
		MSMEG		K.AVAELLATAGVK.F	K.AVAELLATAGVK.F	2	27.4	26.7	25.1	26.4	35.7	31.8	21.6	23.4
		MSMEG		K.FLVLTGETC#TGDSAR.R	K.FLVLTGETC#TGDSAR.R	2	32.6	37.5	47.4	52.2	38.4	39.8	39.5	40.9
		MSMEG		K.FLVLTGETC*TGDSAR.R	K.FLVLTGETC*TGDSAR.R	2	32.6	37.5	47.3	52.2	38.4	39.8	39.5	40.9
		MSMEG		K.GYLDFTTC#TEC#GR.C	K.GYLDFTTC#TEC#GR.C	2	27.3	26.7	31.0	33.4	31.1	29.9	28.5	27.0
		MSMEG		K.GYLDFTTC*TEC*GR.C	K.GYLDFTTC*TEC*GR.C	2	27.3	26.7	31.0	33.4	31.1	29.9	28.5	27.0
		MSMEG		K.KTAAAAPAEKPAATEAPE	ASATPAAPAAPVK.G	4	0.7	1.4	0.1	0.1	7.0	9.8	0.2	0.3
		MSMEG		K.TAAAAPAEKPAATEAPEA	SATPAAPAAPVK.G	3	5.5	6.6	4.8	6.7	20.0	24.5	3.4	5.5
		MSMEG		R.ITTQITEVFGQTR.L	R.ITTQITEVFGQTR.L	2	52.1	49.2	79.7	82.2	54.4	50.8	65.7	65.3
		MSMEG		R.VMITDGVDDVAASR.N	R.VMITDGVDDVAASR.N	2	40.2	47.8	59.6	66.1	40.5	41.5	55.0	52.9
		MSMEG		R.DRAPEVGELGGDGLALT	GFVER.T	3	55.8	64.5	134.8	119.9	42.8	58.5	167.3	153.9
		MSMEG		R.GELALAEALDAMAR.E	R.GELALAEALDAMAR.E	2	6.3	5.4	10.4	8.9	5.8	4.5	7.5	5.8
		MSMEG		R.LRAPVVTSPQPQLVAAAG	AALLADR.A	3	16.2	15.1	38.1	34.6	24.8	23.5	42.9	39.7
		MSMEG		R.NKPAFAPDGIPAALVPDS	R.NKPAFAPDGIPAALVPDS									
		MSMEG		MAALAALK.A	MAALAALK.A	3	16.1	26.5	38.9	66.9	21.7	23.2	19.3	32.1
		MSMEG		R.SAAEHLLLAVESELSSFND	PGER.E	3	22.0	26.3	21.5	25.8	7.3	14.5	15.9	24.0
		MSMEG		K.DSPGLPKPVQTPHPPIIG	GQGAK.R	3	1001.5	915.4	635.1	533.2	612.9	728.6	564.8	647.9
		MSMEG		K.DSPGLPKPVQTPHPPIIG	K.DSPGLPKPVQTPHPPIIG	4	717.3	687.6	406.2	340.5	425.6	521.9	308.6	425.5
		MSMEG		GQGAK.R	K.LGPFIAGVQR.V	2	121.8	85.4	57.8	32.2	81.4	83.0	46.9	54.3
		MSMEG		K.MAGDGLPGPTDSWVTLA	K.MAGDGLPGPTDSWVTLA									
		MSMEG		GIAR.E	GIAR.E	2	285.4	306.5	165.7	181.6	217.2	230.1	162.0	194.4
		MSMEG		K.RTPALAAQFASEFNIPFVP	K.RTPALAAQFASEFNIPFVP									
		MSMEG		LDTLK.T	LDTLK.T	3	297.8	311.8	154.5	166.6	169.9	190.5	128.0	150.1

		R.LGYSAFFR.S	2	210.5	196.4	101.8	91.5	178.6	174.3	138.5	123.3
		R.SNSPLVGTSTEIVDK.L	2	92.9	73.4	34.0	32.3	47.2	47.7	30.3	31.4
		R.TPALAAQFASEFNIPFVPL									
		DTLK.T	3	118.9	118.6	67.1	70.1	52.3	68.0	42.6	51.4
		R.VFVEPQQGATYSDQLAVA									
		QAAER.L	2	322.5	377.4	171.6	200.1	189.3	238.4	144.1	180.8
		R.VFVEPQQGATYSDQLAVA									
		QAAER.L	3	1185.0	1382.9	794.7	866.9	762.9	999.6	736.1	845.1
		R.VYLQVLDMSDLHDVEFFA									
		NEVVR.Q	3	62.2	48.4	40.9	34.8	13.9	20.5	12.1	20.9
		R.YPGPLAISVAQVDEM*SG									
		GR.V	2	93.8	99.6	5.4	8.3	68.9	64.7	5.2	4.7
		R.YPGPLAISVAQVDEMSGG									
		R.V	2	431.3	429.5	262.7	249.2	303.7	308.5	269.8	262.2
MSMEG	MSMEG	K.GPAVTVTGAPGELLLFVA									
_0703	0698	GR.D	2	14.7	15.8	82.7	76.3	9.7	10.1	57.8	65.8
		K.LLDPLVNVAEMFIHHEDVR									
		.R	4	11.2	10.3	32.7	29.9	8.6	7.3	26.0	23.3
		R.IASGPPLLSPFK.L	2	11.1	12.1	75.4	78.1	6.6	6.7	52.3	46.4
		R.VEFTGDENSIAALR.A	2	34.1	41.4	88.5	77.8	31.3	43.2	113.6	111.1
MSMEG	MSMEG	K.ALEGTDISAIK.S	2	10.6	11.2	14.4	21.1	10.4	10.0	17.5	25.1
_0709	0704	K.DAGISVSDIDHVVVLVGGST									
		R.M	2	198.8	186.4	170.1	162.9	191.5	189.1	210.1	199.5
		K.DAGISVSDIDHVVVLVGGST									
		R.M	3	384.5	363.5	407.4	343.2	488.7	311.7	507.9	327.8
		K.DVLLLDVTPLSLGIETK.G	2	577.4	612.7	644.3	688.6	668.3	629.9	838.3	738.7
		K.EAGQIAGLNVLR.I	2	684.3	601.0	788.1	661.0	799.4	486.6	878.3	511.5
		K.GVNPDEVVAVGAALQAG									
		VLK.G	2	1021.5	956.0	917.7	844.2	970.5	765.9	964.9	763.7
		K.GVNPDEVVAVGAALQAG									
		VLK.G	3	329.7	371.6	267.3	270.6	339.8	259.2	305.0	221.1
		K.LLGSFELTGIPPAPR.G	2	328.3	388.8	311.6	343.2	446.0	353.2	503.0	382.9
		K.RHVGTDWNIEIDDK.K.Y	4	27.6	32.8	8.3	13.1	22.9	41.4	7.6	23.1
		R.AVGIDLGTTNSVAVLEG									
		GDPVVVANSEGSR.T	3	236.7	348.6	175.1	280.1	172.6	306.0	129.6	267.4
		R.HVGTDWNIEIDDK.K	2	57.1	49.8	40.3	43.0	52.1	58.0	23.2	44.9

		R.HVGTDWNIEIDDKK.Y	2	84.1	76.1	99.9	75.8	89.4	85.3	86.0	83.1
		R.HVGTDWNIEIDDKK.Y	3	530.2	464.7	476.3	405.3	440.0	453.6	410.6	415.1
		R.IVNEPTAAALAYGLDK.G	2	182.2	177.4	272.2	251.6	133.6	154.3	241.7	243.4
		R.IVNEPTAAALAYGLDK.G	3	178.1	168.7	130.9	123.7	155.8	133.3	107.8	108.0
		R.NQAESLVYQTEK.F	2	22.9	19.8	12.7	9.6	15.5	18.8	9.9	11.7
		R.SETFTTADDNQPSVQIQVYQGER.E	2	162.8	204.2	107.2	164.3	98.4	182.7	64.3	151.9
		R.SETFTTADDNQPSVQIQVYQGER.E	3	340.8	389.1	245.7	320.3	249.6	310.4	206.7	254.9
MSMEG	MSMEG	K.ANVVSELLGVLDLDR.A	2	65.8	71.4	62.7	79.0	40.7	49.0	41.0	49.2
_0710	0705	K.ANVVSELLGVLDLDR.A	3	13.7	10.9	6.7	4.8	7.9	8.6	4.6	4.4
		R.EPAATPQGSAPASAAPETGGDSDEVTELKA.	3	185.5	250.0	158.0	199.7	100.2	161.9	85.8	128.2
MSMEG	MSMEG	K.AHPDVFDVLLQLVLDEGR.L	3	13.4	15.6	11.0	11.7	19.5	26.2	26.3	30.9
_0732	0726	R.ITDSALVAAATLSDR.Y	2	47.8	57.9	274.5	279.6	70.2	57.0	315.5	294.5
		R.VTSPDPEGTYQALEK.Y	2	109.0	104.4	144.0	128.6	87.4	111.2	129.4	153.1
MSMEG	MSMEG	K.EC#LTQSAAFLAATER.L	2	62.2	67.6	51.6	57.0	92.1	81.4	51.9	53.0
_0741	0736	K.EC*LTQSAAFLAATER.L	2	62.2	67.6	51.6	57.0	92.1	81.4	51.9	53.0
		R.AHQHLEVYSGLPNYR.N	3	44.4	51.3	40.6	49.3	52.7	60.0	27.5	30.6
		R.EIEALGFGSLFLPETVAK.E	2	157.4	159.5	185.0	187.2	190.3	185.3	206.7	204.4
		R.FVGLGLVSHGPLVER.G	2	39.4	48.9	46.2	46.7	46.0	56.6	45.4	51.8
		R.IGVWWASDTWSMR.D	2	22.7	26.9	28.0	29.5	22.4	17.8	14.0	20.8
MSMEG	MSMEG	K.ALEPAEVLENLLEQAEKF.H	2	85.1	102.1	101.0	112.2	77.6	90.4	72.5	93.8
_0759	0755	K.ALEPAEVLENLLEQAEKF.H	3	93.0	101.2	84.1	97.1	82.6	102.5	78.0	90.0
		R.KALEPAEVLENLLEQAEKF.H	3	55.2	60.3	61.1	60.8	75.9	70.6	74.3	78.3
		R.VADVLDEQVLAEK.I	2	145.2	98.0	389.2	344.5	249.0	253.5	496.2	504.3
		R.VNGITDYFLTK.L	2	15.4	20.3	7.8	9.7	19.0	25.7	12.6	12.6
MSMEG	MSMEG	R.AQDLAVSADPDAATWDK.									
_0760	0756	A	2	26.3	29.5	8.3	9.4	26.5	31.4	2.7	7.1

		R.VPELPGAGSLLAPPWTVE									
MSMEG	MSMEG	K.F	2	33.6	34.7	95.8	83.0	29.9	37.2	96.2	100.0
_0769	0763	K.YPFLQSHPQYELAK.R	3	79.8	83.1	30.9	26.7	64.5	65.0	34.3	33.2
		R.IPAPLPDGVSQATIGVR.G	2	352.4	345.8	603.6	608.7	272.0	261.6	542.1	571.2
		R.VLGGAILGDQEYIDGPVQ									
MSMEG	MSMEG	K.L	2	214.8	223.4	223.9	266.9	136.9	154.2	208.4	230.2
_0777	0772	K.GASIYDVPEGGIPVYIAAG									
		GPVVAK.Y	2	676.0	769.5	507.6	593.1	264.9	253.1	400.5	413.2
		K.GASIYDVPEGGIPVYIAAG									
		GPVVAK.Y	3	474.0	513.0	438.2	461.9	262.2	265.3	438.8	488.9
		K.ISYDTDPELALENTR.F	2	1864.6	1941.5	1205.4	1229.6	829.7	842.1	1068.6	1047.2
		K.NLVLGTSVLPTF.R.Y	2	1454.0	1337.9	1178.3	1021.0	572.2	574.4	990.3	973.6
		K.WGLNHLVFHAPGHDR.									
		R	4	113.4	83.1	44.3	35.9	19.3	36.8	8.6	40.0
		R.FWAPLSLTAEQK.H	2	799.4	737.9	669.7	563.5	403.1	396.0	661.1	624.6
		R.IFLGVGTGEALNEIATGYA									
		GEWPEFK.E	3	530.6	620.9	294.4	369.7	178.4	257.1	175.3	241.9
		R.WIVASDPDEAVEK.V	2	133.5	116.6	39.5	56.9	56.3	71.9	23.8	36.3
MSMEG	MSMEG	R.STADIDAC*VADLDQLGS									
_0779	0774	GK.V	2	23.3	15.5	44.9	43.2	4.0	4.7	47.6	47.3
		R.VVLTSSITGPITGYPGWS									
		HYGATK.A	3	139.9	159.1	279.4	293.2	106.4	111.6	268.2	283.6
MSMEG	MSMEG	R.GALVEDIVNTVAITAIQAQ									
_0783	0778	GR.S	3	30.3	36.1	26.7	39.5	36.5	30.2	30.7	34.2
MSMEG	MSMEG	R.ADIALAAGADVHLHGQDD									
_0789	0785	LPLDVAR.G	3	115.3	120.0	114.7	115.6	93.1	88.1	110.9	104.1
		R.GDLAEFADAALAGGVLDI									
		QLR.D	3	13.6	12.8	9.8	8.2	4.4	5.2	3.6	3.8
MSMEG	MSMEG	R.GAAEAVLTAQLAR.E	2	34.2	36.5	19.6	23.5	35.4	33.3	42.0	39.9
_0793	0788	R.VDAETGTGVLDLLNR.L	2	75.7	81.9	65.9	64.7	64.6	67.2	117.6	127.3
MSMEG	MSMEG	KLAGLGLAGVGVAHFAK.P	2	29.9	34.2	21.0	19.6	48.0	42.5	19.8	24.5
		KLAGLGLAGVGVAHFAK.P	3	81.9	72.0	72.3	59.0	110.0	105.9	90.3	83.8

		K.PQLFESITKPAFPR.D	3	103.9	104.8	92.4	76.4	143.8	143.0	109.7	103.5
		R.IGAVGAVGYLTYLAGNAV									
		R.N	2	106.9	156.2	183.8	253.0	145.3	121.2	225.5	210.0
		R.IGAVGAVGYLTYLAGNAV									
		R.N	3	61.3	41.6	49.4	31.5	73.0	73.9	60.0	52.3
MSMEG	MSMEG	K.GFHEVPVDIIAGQIQVVAE									
_0825	0817	DIGIQAAK.T	3	127.8	147.6	208.2	226.2	87.9	118.8	111.6	150.4
		K.LLPLTPPGQTPTR.V	2	156.8	124.0	258.5	213.0	223.8	236.2	244.0	288.8
		R.LITGIEVVDEATQR.D	2	129.7	140.2	196.9	205.1	179.5	181.7	198.0	205.1
		R.NELFPIASLVTPNLDEVR.L	2	111.1	114.1	194.2	182.1	168.7	167.7	224.1	218.2
		R.VMTIAGTDSGGAGIQAD									
		LR.T	2	31.6	38.7	59.2	66.7	56.4	56.2	74.2	85.5
MSMEG	MSMEG	R.NSPVPVGTVPMYQALEK.									
_0826	0818	V	2	111.6	116.1	15.3	16.4	45.8	53.2	5.2	17.5
MSMEG	MSMEG	R.VTGLDADGSPITLEGEDLF									
_0832	0826	AR.M	2	145.7	158.1	166.1	178.0	141.0	139.2	205.1	208.6
MSMEG	MSMEG										
_0834	0828	R.VFNISDVAGAAENTANR.L	2	75.9	81.9	64.4	85.4	84.2	98.6	21.2	48.2
MSMEG	MSMEG	K.LVTTTDAFTAEDLLDGAK.									
_0835	0829	T	2	693.8	651.2	1071.5	940.0	828.1	728.9	1178.9	997.7
		R.YQQVNGAPGPDQTTMAT									
		GDAGSR.V	3	5.1	5.9	10.2	10.3	0.9	2.0	0.4	2.5
MSMEG	MSMEG	R.EIAAPSDVIFELIADPAQQP									
_0859	0851	R.W	2	13.3	15.7	14.1	17.8	11.9	10.8	16.1	15.8
		R.EIAAPSDVIFELIADPAQQP									
		R.W	3	75.4	68.2	91.0	82.5	54.0	65.8	84.3	99.7
		R.IAWRPAVAGEQPLGHLW									
		R.W	4	40.6	39.8	33.0	33.5	38.6	41.7	44.8	44.1
		R.PAVAGEQPLGHLWR.W	3	21.6	25.4	30.0	30.0	9.8	11.6	15.2	16.1
		R.TLVTHTYDWTLQTDEKR.									
		F	3	31.9	40.0	40.9	50.6	26.5	29.0	46.1	39.6
MSMEG	MSMEG	R.DSAPSLVFLDEIDALAPR.									
_0858	0852	R	2	44.8	49.6	54.9	57.4	46.6	48.8	53.4	59.3
		R.ENAAVLVSPVTYVGAR.S	2	1353.5	1460.3	1128.5	1138.7	1204.6	1104.5	1060.0	1021.9

MSMEG	MSMEG										
_0861	0854	K.LSIGDTYGLIR.Y	2	40.3	77.7	1.9	3.6	20.3	24.1	2.2	1.9
		R.AGLISAGANAAFFR.H	2	10.8	10.3	2.3	2.3	6.9	12.0	1.8	1.5
		R.FHSAELEAASEDNER.N	3	1.1	0.9	0.0	0.0	0.9	0.6	0.1	0.1
MSMEG	MSMEG										
_0863	0856	K.LANLLFAYELQR.R	2	19.8	20.8	210.2	206.0	24.9	23.9	266.1	214.0
		R.VAIVTGSNTGLGYETAR.A	2	94.6	99.3	53.7	62.1	101.2	120.9	42.1	48.8
MSMEG	MSMEG	K.AGADAVVATPPFYVAPHA									
_0877	0870	DEVIR.H	3	84.8	89.3	51.8	55.2	74.4	86.3	42.2	53.9
		R.IGLTAGALGAFK.A	2	10.5	16.0	12.5	10.1	14.1	16.7	6.8	8.3
MSMEG	MSMEG										
_0876	0871	K.LANLLFTYELQR.R	2	33.7	36.2	74.2	84.0	29.0	24.7	94.0	101.2
		R.VAIVTGANTGLGLETAK.A	2	37.7	47.2	11.3	15.3	21.4	25.4	12.2	14.9
MSMEG	MSMEG										
_0880	0873	K.AGAATEVELK.E	2	88.4	65.4	43.5	29.9	101.1	76.0	87.0	71.3
		K.DETTIVEGAGDAEAIQGR.									
		V	2	3348.0	3869.0	2045.3	2291.2	2719.5	2868.0	1471.1	1737.2
		K.DETTIVEGAGDAEAIQGR.									
		V	3	444.5	489.4	243.0	282.8	395.5	408.7	176.0	177.5
		K.EQIAATAGISAGDQSIGDLI									
		AEAMDK.V	2	111.5	114.4	142.3	154.0	46.2	70.3	51.5	75.6
		K.EQIAATAGISAGDQSIGDLI									
		AEAMDK.V	3	1558.7	1596.5	1036.8	1131.3	1184.0	1185.7	735.1	748.5
		K.GYISGYFVTDQAER.Q	2	2103.4	2181.6	1134.7	1177.2	2130.4	2109.3	980.9	972.9
		K.KTDDVAGDGTTTATVLAQ									
		ALVR.E	2	275.8	353.0	67.3	94.7	363.1	357.2	145.6	136.7
		K.KTDDVAGDGTTTATVLAQ									
		ALVR.E	3	2725.0	2527.9	1432.5	1386.5	3724.7	3115.6	1812.3	1599.9
		K.KWGAPTITNDGVSIAK.E	2	294.4	267.4	231.4	216.4	309.3	317.9	228.2	256.4
		K.KWGAPTITNDGVSIAK.E	3	247.4	216.3	142.1	127.4	278.0	296.2	150.8	174.0
		K.LAGGVAVIK.A	2	11.4	8.2	0.6	0.3	17.7	15.7	1.2	0.6
		K.QIALNGGLEPGVVAEK.V	2	609.6	653.1	497.7	499.2	840.1	829.1	558.0	597.4
		K.TDDVAGDGTTTATVLAQA									
		LVR.E	2	401.2	392.6	221.9	227.2	319.6	312.1	214.9	200.2

		K.WDLTVNELAR.N	2	130.3	109.1	120.8	109.1	169.3	143.8	139.7	134.3
		K.YGELLGGHLIGPDVSELLP									
		ELTLAQK.W	3	2111.4	2252.5	2137.9	2163.2	1895.0	2177.9	2264.8	2319.8
		K.YWGGVC#LNVGC#IPSK.A	2	415.6	396.1	566.7	586.1	484.6	472.4	616.7	678.5
		K.YWGGVC*LNVGC*IPSK.A	2	412.7	396.1	555.4	584.2	483.3	471.5	608.7	676.0
		R.AAQLGLNTAIVEPK.Y	2	738.6	538.9	784.5	633.3	1282.5	1253.5	1357.5	1412.4
		R.ATFC#QPQVASFGLTEEQ									
		AR.D	2	171.6	205.5	173.7	230.4	135.0	153.2	129.5	154.1
		R.ATFC*QPQVASFGLTEEQ									
		AR.D	2	171.6	205.5	173.7	230.4	135.0	153.2	129.5	154.0
		R.LVPGTSLSENVVTYETQIL									
		SR.E	2	802.1	851.9	807.4	848.3	734.7	837.4	845.1	935.6
		R.TNVGHIYAIGDVTGK.L	2	226.5	206.1	348.4	319.7	310.9	303.4	572.5	597.9
		R.TNVGHIYAIGDVTGK.L	3	233.5	197.1	189.6	167.5	306.2	255.6	225.7	191.8
MSMEG	MSMEG										
_0905	0899	R.ALPIGWIAAR.A	2	9.0	8.2	9.7	6.7	5.6	6.6	17.9	14.1
		R.TLITATDEFVVTR.S	2	56.4	67.3	78.4	48.3	70.6	31.6	135.9	53.4
MSMEG	MSMEG										
_0909	0903	R.IADDFLAGLR.R	2	28.5	28.4	12.0	12.6	27.5	26.4	21.3	19.5
		R.TMIDMIEPIEFPELLR.L	2	44.3	51.8	45.5	44.3	40.4	44.3	37.3	44.5
MSMEG	MSMEG	K.AMIAAGVAGSHWEDQLA									
_0911	0904	SEK.K	3	470.6	426.8	70.2	88.0	798.8	740.2	47.2	74.2
		K.VEGDTSVENWLAPIVADG									
		EAGFGGALNVYELQK.A	3	52.7	82.8	6.2	7.1	77.7	173.9	0.5	5.6
		R.DYTPEDVVALQGTVVEEH									
		TLAR.R	3	75.7	67.0	8.6	5.5	41.2	49.9	8.8	6.9
		R.IATTVDPNSSTTLAGSTE									
		EGQFH.-	3	514.1	597.3	116.2	136.8	1718.5	1903.8	48.9	97.1
		R.IATTVDPNSSTTLAGSTE									
		EGQFH	2	330.3	419.4	4.6	4.4	1147.8	1230.3	1.5	4.5
		R.IATTVDPNSSTTLAGSTE									
		EGQFH	3	515.9	603.0	112.3	133.2	1768.0	1964.6	50.6	105.1
		R.LAADVADVPTVVIAR.T	2	1084.8	1049.1	204.1	255.4	4001.7	3969.7	325.6	270.1
		R.LAADVADVPTVVIAR.T	3	49.8	40.4	0.3	1.0	289.9	246.5	0.7	0.6
		R.NQM*SAYVELQER.E	2	13.6	10.4	35.5	24.5	47.9	54.8	0.9	0.8

		R.NQMSAYVELQER.E	2	118.6	150.4	61.0	95.0	277.2	269.6	39.9	50.8
		R.TDAEAATLITSDVDER.D	2	559.3	537.1	81.6	93.7	1759.6	1589.2	56.0	83.4
		R.TDAEAATLITSDVDER.D	3	3.5	14.2	0.0	0.5	85.4	53.9	0.0	0.1
		R.TDAEAATLITSDVDERDQ									
		PFITGER.T	3	14.7	16.3	6.9	10.2	472.2	438.4	14.9	10.4
MSMEG	MSMEG	K.AVVAGLSHPMGPLR.L	2	104.0	81.7	69.6	57.2	115.8	152.6	40.7	52.8
_0912	0905	R.AGVDVLVYDTTDAFVTAG									
		R.N	2	123.2	110.1	209.0	182.7	287.3	217.3	226.9	161.2
		R.LSDLVGLDLK.L	2	245.0	250.4	351.5	360.5	399.8	364.3	406.1	354.8
		R.MVEGGVATIEDVDK.A	2	219.1	203.7	340.9	290.0	256.4	299.2	318.5	349.9
		R.VGVVGAGQM#GSGIAEV									
		SAR.A	2	35.0	30.6	30.1	28.5	48.3	51.2	30.2	34.0
		R.VGVVGAGQM*GSGIAEVS									
		AR.A	2	35.0	30.6	30.1	28.5	47.9	51.0	30.2	34.0
		R.VGVVGAGQMGSGLAEV									
		AR.A	2	318.9	356.9	434.6	457.9	487.0	506.4	518.0	532.6
		R.VGVVGAGQMGSGLAEV									
		AR.A	3	50.5	39.8	47.4	38.7	85.1	70.5	66.5	51.6
		R.VITDPDAVLASNTSSIPIMK									
		.I	2	195.7	204.1	277.1	250.4	304.2	319.1	329.9	312.2
MSMEG	MSMEG	K.FIGEEIFPGGQLPAVEDIE									
_0913	0906	K.L	2	432.3	465.5	195.9	195.2	628.4	607.5	200.8	197.0
		K.KDEAIAMQQQEYDR.Y	2	5.1	3.7	0.7	0.4	12.8	6.8	1.2	0.3
		K.KDEAIAMQQQEYDR.Y	3	33.2	27.2	13.5	11.4	54.1	41.8	13.4	12.3
		K.LDLKPGM*TLLDVGC#GW									
		GGALER.A	3	43.4	51.8	7.2	11.6	43.5	50.2	8.8	8.3
		K.LDLKPGMTLLDVGC#GW									
		GGALER.A	3	161.5	166.4	70.8	73.1	242.5	241.5	78.6	74.0
		K.LDLKPGMTLLDVGC*GWG									
		GALER.A	3	161.5	166.4	70.8	73.1	242.5	241.5	78.6	74.0
		K.YDVNVIGITLSK.A	2	346.6	364.2	285.5	309.8	451.0	441.0	308.6	366.4
		K.YLTGC#ADFFR.R	2	200.3	198.1	75.7	78.7	291.7	286.4	77.2	76.1
		R.GITNVGQFTLVK	2	267.4	278.3	230.6	226.9	423.8	389.5	218.7	221.7
		R.LQGWEEFNEPVDR.I	2	694.2	758.5	339.5	372.5	955.6	965.3	340.6	366.5
		R.M*LLHTILAHTQK.F	3	100.5	77.9	57.7	51.9	111.9	111.1	47.0	53.1
		R.MLLHTILAHTQK.F	2	87.6	81.5	19.6	20.3	102.8	116.0	14.5	24.8

		R.MLLHTILAHTQK.F	3	143.0	132.5	57.7	57.7	214.4	211.1	47.0	53.1
		R.TLDMWAANLEAK.K	2	242.2	279.6	103.9	119.2	366.4	361.7	103.6	112.7
		R.YPVFFER.A	2	41.3	21.2	2.7	0.6	54.4	56.5	1.0	0.9
MSMEG	MSMEG										
_0916	0909	R.VYVETVAAEPEPYR.F	2	39.5	37.9	53.7	49.2	36.8	45.8	17.9	31.7
MSMEG	MSMEG										
_0918	0911	K.AGVSNPYLSQIER.G	2	14.3	20.0	286.7	314.6	49.8	43.3	305.3	287.1
		R.AGILEPSEPSEVR.D	2	0.8	0.1	21.0	19.0	1.9	3.8	18.6	24.5
		R.DAIVNDVSITER.Q	2	20.6	20.7	62.0	46.9	15.8	18.1	60.2	56.9
MSMEG	MSMEG										
_0919	0912	K.AAESYADQATATYNK.L	2	1.1	0.6	41.0	30.7	6.9	5.2	35.1	26.3
		K.LQEELPSQFGEGLR.E	2	545.1	593.2	5463.7	6006.0	1306.9	1293.3	5794.8	5882.0
		K.LVGVELPK.R	2	0.0	0.2	57.4	53.7	4.8	7.5	75.4	82.5
		R.KAAESYADQATATYNK.L	3	1.4	1.5	5.2	4.1	3.7	3.6	7.3	6.2
		R.VETYTDQAVELTQEALGT									
		VASQTR.A	2	24.9	28.3	351.8	402.3	85.8	100.9	323.1	375.7
		R.VETYTDQAVELTQEALGT									
		VASQTR.A	3	66.2	93.7	742.5	919.0	225.8	280.1	634.4	814.9
MSMEG	MSMEG	R.FGVPLGPVAQPLDGPWA									
_0924	0916	R.A	2	66.6	73.0	15.2	16.4	59.2	70.1	12.6	17.2
MSMEG	MSMEG										
_0927	0919	K.IENFIGSQLVDLLVAEQR.F	2	11.6	15.5	17.9	22.5	9.2	10.9	13.7	15.7
		K.IENFIGSQLVDLLVAEQR.F	3	10.9	10.3	15.2	14.0	7.6	7.9	11.0	11.3
MSMEG	MSMEG	R.LPGLVSQFHPGDLSIR.R	3	11.5	9.8	19.1	18.5	4.5	6.3	11.9	12.2
_0930	0922	K.EIDGTAVVADVTDDESVN									
		ALAAQLDR.V	3	93.2	101.0	46.4	55.3	58.9	8.9	31.8	19.4
		K.GITPLVAEDIAEVIGFVASR									
		.P	2	31.9	33.5	22.2	24.0	13.2	19.0	13.9	17.2
		K.GITPLVAEDIAEVIGFVASR									
		.P	3	17.8	17.2	13.3	11.9	7.3	9.8	6.3	10.3
		K.TLASLGFHVIC*AAR.R	2	45.8	41.7	54.9	61.4	42.0	43.6	89.6	54.6
		R.LTEIAPGAVETEFLSLVR.F	2	236.4	237.4	195.2	196.3	200.0	191.4	238.4	251.2
		R.PSHVNLDQIVRPR.D	4	99.5	94.5	54.8	50.2	102.4	85.6	73.6	63.6

MSMEG	MSMEG										
_0935	0927	K.EKYGEEQFMAWR.R	2	34.1	26.2	10.5	8.0	27.7	33.1	6.7	12.3
		K.IGGEYLDPEAAAAGAAAV									
		AAQGAK.K	2	436.1	435.9	1869.7	1988.1	352.7	393.6	5471.7	6051.5
		K.IGGEYLDPEAAAAGAAAV									
		AAQGAK.K	3	383.0	419.6	2478.1	2737.6	319.7	316.9	6703.0	7654.0
		K.NLFTGWVDVDLTDK.G	2	84.8	73.6	75.5	69.6	51.6	44.5	51.7	43.4
		K.YGEEQFMAWR.R	2	113.8	142.0	103.2	130.7	75.6	86.7	95.6	107.6
		K.YLDGMSDEEVVGLNIPTGI									
		PLR.Y	2	101.9	103.0	94.9	89.5	85.1	76.2	92.2	88.5
		K.YLDGMSDEEVVGLNIPTGI									
		PLR.Y	3	156.2	152.8	170.6	165.7	119.7	115.5	171.8	165.0
		R.AITTAHLALDAADR.L	2	67.2	54.6	57.7	49.0	68.3	41.8	83.6	56.1
		R.AITTAHLALDAADR.L	3	140.5	119.0	89.2	78.5	138.8	117.9	114.8	90.2
		R.FVPYYESAILPDLK.A	2	788.0	810.9	897.7	913.5	790.8	787.6	1046.0	1089.4
		R.FVPYYESAILPDLK.A	3	20.5	16.9	6.6	14.6	18.3	18.2	12.9	15.7
		R.GGQLMAEQGVLPDVLYT									
		SLLR.R	2	184.2	183.2	190.8	196.1	178.9	161.9	224.3	219.0
		R.GGQLMAEQGVLPDVLYT									
		SLLR.R	3	169.0	163.9	172.0	158.2	133.6	135.6	173.0	167.0
		R.YADIDGGPLTEC#LK.D	2	414.2	417.0	491.2	471.0	325.5	299.5	429.4	429.1
		R.YADIDGGPLTEC*LK.D	2	412.8	415.4	491.2	470.3	319.6	298.4	426.9	428.3
MSMEG	MSMEG										
_0937	0929	R.SKIEEDPANPVHLVTVR.G	3	17.1	21.2	4.9	7.5	26.2	32.9	6.5	7.2
MSMEG	MSMEG	R.AVATDLVAQTMAGSAAML									
_0943	0934	LDR.L	2	373.1	429.0	23.8	28.5	303.2	331.7	24.4	32.1
		R.AVATDLVAQTMAGSAAML									
		LDR.L	3	103.5	101.0	49.6	45.2	107.4	95.7	73.8	66.2
		R.LDQVNAAGGAALDTTPAQ									
		LR.A	2	75.3	82.4	68.5	63.4	95.3	95.1	84.9	95.1
		R.VMPNAPVIVGGGVSLAP									
		GR.F	2	102.0	102.4	191.9	187.9	127.4	124.5	189.2	187.8
MSMEG	MSMEG										
_0944	0935	K.AVHDLLETSYFDAG	2	37.8	39.6	180.7	188.8	41.1	40.7	179.4	176.9
		R.AQFLTVAEVASLMR.V	2	23.5	23.1	56.8	50.7	20.5	18.0	45.9	41.5
MSMEG	MSMEG	K.EC#GHDNLIAPLTFALVAG									
_0948	0939	R.R	3	27.1	28.6	19.9	22.3	20.4	23.1	12.7	15.5

		K.ECGHDNLIAPLTFLAVAGR										
		.R	3	27.2	0.0	19.9	0.0	20.4	23.0	12.6	15.5	
MSMEG _0954	MSMEG 0944	K.FDVPINLER.V	2	12.1	13.4	3.6	2.8	6.6	7.4	3.5	2.2	
		K.LIFHRPIVVGDK.L	3	67.5	52.1	29.0	19.9	56.6	59.8	24.7	25.1	
		R.EFSAAVKDDHPAHFDEAA										
		AK.E	3	4.6	1.8	1.4	0.3	9.4	7.1	4.5	3.1	
		R.EFSAAVKDDHPAHFDEAA										
		AK.E	4	17.4	9.8	6.8	3.2	25.9	27.6	11.4	10.9	
		R.VQLDLFDKFDPINLER.V	3	52.2	45.5	32.0	28.4	37.5	38.7	24.4	22.5	
		R.YPDYFEVGR.E	2	79.0	64.7	27.5	22.6	74.5	75.6	25.1	25.0	
		R.ALYGWTVLVPR.T	2	33.9	37.8	19.2	18.2	34.0	35.7	20.5	13.5	
		R.GWEIEDVTAYR.T	2	29.1	38.2	1.5	3.0	17.4	21.0	0.4	1.0	
MSMEG _0965	MSMEG 0955	R.ITFGSGPGDPGLLTT.R.A	2	196.1	191.7	57.3	56.3	253.3	227.4	29.9	37.6	
		R.LIAGDPLSVDAVITEINALA										
		K.T	2	49.6	57.8	5.9	5.8	55.7	80.3	4.8	10.4	
		R.LIAGDPLSVDAVITEINALA										
		K.T	3	34.2	53.7	2.9	5.1	44.8	58.8	6.1	6.6	
		R.LVTHGALPIEVPTIAVEPP										
		R.S	3	104.5	103.1	211.4	228.6	129.2	112.0	204.9	196.1	
		R.LIASTGDSVTTYGEPWNM										
		*N	2	26.5	32.7	24.3	34.3	23.1	36.1	8.2	18.8	
		R.LIASTGDSVTTYGEPWNM										
MSMEG _0969	MSMEG 0959	N	2	39.4	0.0	42.7	0.0	27.1	43.4	10.8	27.4	
		R.TLTVQQWDTFLNGVFPLD										
		R.N	2	303.9	359.2	319.9	376.9	214.5	270.7	322.0	375.6	
		R.TLTVQQWDTFLNGVFPLD										
		R.N	3	90.8	105.0	110.0	122.7	33.6	48.0	92.4	129.3	
		K.VAEHGLSGAPTPSETEL										
		AAEIIDR.V	3	351.6	338.5	192.5	246.0	116.0	104.0	74.4	84.9	
		R.FITSAGGYWLTDADGNR.										
		Y	2	148.2	147.6	186.4	245.6	46.4	52.3	74.3	71.8	
		R.SGWYGLDPVEADLLTFG										
		K.V	2	255.2	265.9	67.7	81.7	108.4	101.7	80.7	74.7	

MSMEG	MSMEG	K.AAGHEAVC#VSHQLPVET									
_0970	0960	LR.R	3	213.5	204.5	136.4	126.7	184.7	187.9	107.0	105.2
MSMEG	MSMEG	R.ATGTDAAEESAVAVLPAAE									
_0987	0977	TAVAR.E	3	38.7	0.0	114.4	0.0	39.8	49.8	121.1	110.3
MSMEG	MSMEG	K.IVGVIEQDTGARPISDDLP									
_1010	0998	ALVR.T	3	233.9	243.5	426.5	460.3	232.3	268.4	366.7	396.3
		R.LWLSALWGGLPE	2	12.6	13.9	14.5	15.2	8.6	11.7	10.1	15.1
		R.PISDDLALVR.T	2	23.1	25.9	3.3	4.8	3.8	9.3	1.7	1.5
MSMEG	MSMEG										
_1011	0999	R.IGVSVVVPGAVK.T	2	36.8	35.8	42.3	40.1	50.7	51.0	43.5	44.3
MSMEG	MSMEG										
_1019	1007	K.AMDSPDFAQTIEVAIR.A	2	112.2	103.9	338.3	297.1	139.6	106.8	354.7	280.3
		K.DISC#NLGSLNIAK.A	2	170.7	177.1	289.0	282.2	168.7	163.6	305.5	308.3
		K.DISC*NLGSLNIAK.A	2	153.1	163.4	280.9	273.5	152.0	155.6	297.5	308.3
		K.KNEDMYLFSPYDVER.V	2	46.6	54.5	71.5	78.0	21.9	41.2	45.0	72.7
		K.KNEDMYLFSPYDVER.V	3	61.7	55.4	100.4	88.3	36.9	40.5	76.7	86.3
		K.LDYLIENEYYER.E	2	190.5	202.3	412.4	406.4	126.2	148.9	363.2	324.9
		K.LLEDSFSYANQLGAR.Q	2	339.0	327.2	656.7	585.6	374.3	345.8	756.4	647.3
		K.NIENQSSGVIPIMK.L	2	311.1	287.3	757.5	714.6	288.4	281.0	676.7	629.1
		K.RGGGVALLLSNIR.E	3	17.7	11.1	20.7	16.1	31.9	28.6	45.0	39.7
		K.TSLGVVIPDITFELAK.K	2	103.6	110.9	237.9	262.2	133.0	125.5	304.1	297.6
		K.YASGEFFDKYTDQVWEP									
		K.T	3	93.2	50.3	56.4	89.8	125.2	64.8	109.8	135.3
		R.FPTFLGAFK.Y	2	48.9	46.0	113.5	108.2	47.1	39.2	109.0	92.1
		R.GEPVSC#FLLR.I	2	55.2	56.2	116.7	106.6	64.4	48.4	106.5	95.3
		R.GGGVALLLSNIR.E	2	94.3	85.5	198.6	174.0	107.7	88.9	211.4	169.4
		R.LFADADIHIPTQDDWK.Q	3	111.0	104.3	126.6	135.2	110.6	84.1	101.3	114.1
		R.VYGVPFADVSVTEK.Y	2	342.7	368.1	791.9	795.7	392.5	350.4	900.5	849.2
MSMEG	MSMEG										
_1021	1010	R.ISLITLGVDNLAA.SR.R	2	39.6	39.0	39.9	42.9	56.5	59.5	45.8	48.0
MSMEG	MSMEG										
_1028	1015	K.IDSEYNGYSAIAIR.S	2	391.4	408.3	182.1	212.1	401.8	414.4	190.4	252.5
		K.NWQSINATQFLGEFLR.S	2	418.9	429.1	301.2	320.1	277.5	294.5	262.0	285.3
		K.VYGDAVIAADGAYSPIK.R	2	333.4	326.3	433.0	528.9	247.2	258.1	113.1	140.2

		K.VYGDAVIAADGAYSPIKR.								
		A 3	135.7	136.4	169.5	198.0	166.6	148.1	239.6	221.0
		R.SEMHANRPDSDSLIDYLK.								
		L 3	322.0	283.8	195.8	174.1	154.8	172.0	84.4	106.4
		R.VTVFSPSEWELSFPR.R 2	1019.2	952.0	692.5	654.5	853.5	787.9	792.4	692.9
		R.YDLVIAGGGPSGSAAAW								
		QAAQTGAK.V 3	342.4	332.3	281.7	274.4	181.8	285.5	128.7	323.9
MSMEG	MSMEG									
_1033	1019	K.ALMLNGYEALFPR.D 2	70.3	67.3	217.8	197.2	24.8	30.3	95.6	96.8
		K.VPVSNDIQSWHTLTDNEK								
		.Q 3	529.8	539.7	993.1	968.0	388.9	413.0	729.3	731.5
MSMEG	MSMEG									
_1037	1024	K.AMGADVTVLSQSLK.K 2	1359.9	1357.8	189.3	207.1	216.2	201.1	225.0	213.4
		K.LDGALVELGLPHEHPMEVP								
		AFPLLAQR.R 3	2375.9	2643.9	399.2	438.2	327.0	376.2	280.6	319.9
		K.VAVIGLGGLGHVAVK.L 2	416.3	375.2	60.0	72.2	21.5	16.8	36.1	60.3
		K.VAVIGLGGLGHVAVK.L 3	1012.1	867.8	24.5	25.2	121.9	111.9	14.1	14.8
		R.FVIDTASLR.S 2	76.2	43.7	16.5	12.5	11.9	14.1	17.8	20.9
		R.IPDSDLPLDAAAPLLC#AGIT								
		TYSPLR.H 3	1301.0	1445.6	149.4	171.0	174.7	201.9	111.5	155.4
		R.IPDSDLPLDAAAPLLC*AGIT								
		TYSPLR.H 3	1301.0	1445.6	149.4	171.0	174.7	201.9	111.5	155.4
		R.LGASAYYATSDPETFDK.L 2	2916.5	3147.8	530.0	629.0	499.8	547.9	349.0	417.7
MSMEG	MSMEG									
_1038	1025	R.PAHVAWLNDEVAAGR.I 2	121.0	128.3	87.2	88.8	75.8	60.7	87.5	70.7
		R.PAHVAWLNDEVAAGR.I 3	247.3	282.6	160.5	177.7	146.4	148.2	151.6	143.3
MSMEG	MSMEG									
_1041	1028	R.VATLAGLPASVLDEVAEQ								
		LELTPGAR.T 3	118.8	153.6	81.8	96.1	40.6	63.8	41.5	73.7
MSMEG	MSMEG									
_1046	1033	K.AFGQAIALEVIDGR.Y 2	125.0	135.6	259.3	275.9	118.4	125.2	311.1	340.3
		K.VVASGLLTDVLTSENLSK.								
		A 2	211.3	212.6	405.3	382.3	194.3	192.1	378.8	378.5
		K.VVASGLLTDVLTSENLSK.								
		A 3	31.8	33.2	54.5	53.4	28.7	31.1	58.2	55.0
		R.DLVVSAGYAVLGR.W 2	169.1	181.8	136.5	128.4	223.8	203.1	138.5	137.5

		R.IAAATEHPSSGTAYVLGE									
MSMEG	MSMEG	R.L	3	70.1	53.7	104.9	64.8	60.4	71.1	97.9	99.7
_1047	1034	R.AALANHSLSFADFLR.D	2	39.4	47.5	65.8	80.3	72.6	66.5	70.1	73.5
		R.AALANHSLSFADFLR.D	3	64.3	65.5	30.7	33.8	80.1	81.9	28.4	33.4
		R.ADLEVFLMR.R	2	20.8	18.4	68.6	47.0	25.7	22.6	41.4	37.8
		R.ADLLRPWANWVTPK.E	2	182.3	203.7	139.1	136.1	199.2	228.2	140.3	169.5
		R.ADLLRPWANWVTPK.E	3	43.4	41.0	13.8	17.6	58.9	65.2	19.2	24.4
		R.LGVDEGLAEALVC#AAAR.									
		E	2	105.1	107.6	103.6	107.6	102.8	103.3	109.4	102.5
		R.LGVDEGLAEALVC#AAAR.									
		E	3	10.0	12.9	1.5	2.0	14.6	14.4	0.3	3.0
MSMEG	MSMEG	R.FSDHPVDVLAAAK.A	3	12.6	9.2	3.2	4.2	4.7	5.7	4.9	6.6
MSMEG	MSMEG	K.LPFLSGWR.R	2	40.7	35.0	1.3	0.7	38.6	35.8	0.5	0.0
_1049	1036	R.AAALEAVVDLHTFDPADLER.M	3	92.5	75.5	26.8	26.0	82.7	70.3	18.4	32.9
MSMEG	MSMEG	K.RAPITFDTLFK.P	2	8.8	9.4	30.2	26.0	6.0	3.2	26.3	36.9
_1051	1038	R.PLDVIFPIVAR.E	2	75.5	78.3	63.5	65.2	54.2	53.3	46.5	43.9
MSMEG	MSMEG	R.GIYSNEAGQGTGPHAAAA									
_1052	1039	AEVTHTPAK.Q	3	0.2	0.3	12.2	10.5	3.9	3.4	13.0	9.6
		R.GIYSNEAGQGTGPHAAAA									
		AEVTHTPAK.Q	4	2.2	2.1	104.6	82.9	24.4	25.4	82.5	75.0
MSMEG	MSMEG	K.DVDTVEFSYR.G	2	54.2	40.7	86.4	63.1	68.6	74.5	50.0	59.5
_1060	1045	K.IVTIDYIDDLDGVPIDEK.D	2	363.6	459.5	652.9	817.6	340.7	464.8	325.2	438.0
		K.IVTIDYIDDLDGVPIDEKDV									
		DTVEFSYR.G	3	94.1	96.0	99.5	114.1	96.7	109.5	98.4	105.7
		R.GEDYTLVLTTK.N	2	211.3	193.1	352.0	322.1	334.6	359.0	349.4	337.3
MSMEG	MSMEG	R.SDTWKPETWNPTAVPSV									
_1061	1046	AQLAK.A	3	180.0	321.2	197.4	345.2	124.6	137.5	130.9	154.2
		R.VIDDTTIAIPERPGNK.R	2	32.2	26.6	27.4	25.2	26.2	25.6	25.4	27.4
		R.VIDDTTIAIPERPGNK.R	3	15.2	0.0	8.3	0.0	11.7	13.3	6.3	8.5
MSMEG	MSMEG	R.TGYQYASGETAETVDPAR									
_1075	1059	.A	2	11.6	8.7	4.9	3.0	5.8	8.0	0.8	2.1

		R.VPGFDDLTDITYHR.H	3	53.6	49.9	7.6	7.7	44.2	38.9	3.9	1.8
MSMEG	MSMEG	K.GTDAAQLEITGTR.V	2	13.5	12.3	10.1	8.9	7.3	5.4	9.4	6.5
_1076	1060	R.YVVGGLPGADWTANL.R.A	2	50.1	54.5	72.2	77.8	34.4	38.8	62.7	65.6
MSMEG	MSMEG	R.VIDPDSWTAYPDTATVLK.									
_1077	1061	S	2	35.6	35.1	34.7	30.3	13.9	14.9	16.8	25.4
MSMEG	MSMEG	R.LEEVEPLLTAJVTTTPELA									
_1078	1062	LEQAK.A	3	14.6	21.5	82.5	115.1	17.5	25.2	97.0	134.0
MSMEG	MSMEG	R.NLTGGIVALHAATKPA	2	4.7	3.5	19.4	19.1	0.9	6.0	54.8	32.0
_1115	1105	R.FGATFSGANDEQIER.L	2	32.0	37.9	58.3	75.1	63.4	72.9	79.6	65.1
MSMEG	MSMEG	R.QLLACGLAVLVVAGLISTV									
_1133	1122	LLVK.A	2	0.6	0.8	11.3	31.7	0.0	0.1	10.5	27.8
MSMEG	MSMEG	K.GADLDVALQFVNRY	2	96.7	88.9	192.5	177.8	88.9	93.2	215.2	218.9
_1165	1158	K.GDEVIELTSSTEER.V	2	42.3	36.9	65.5	60.1	27.8	29.8	60.5	62.6
		K.KRDDLQAVIALLK.G	3	20.3	21.3	24.6	27.7	13.5	16.0	22.7	27.1
		K.VDRQEVDNALNQAAK.E	2	11.9	3.9	18.3	6.3	11.2	14.1	19.0	19.4
		K.VDRQEVDNALNQAAK.E	3	21.4	10.4	31.6	14.0	20.2	27.0	34.0	40.6
		R.DDLQAVIALLK.G	2	17.5	18.8	21.9	23.4	8.3	8.3	12.0	11.8
MSMEG	MSMEG	R.LLDLDSVAAELR.S	2	66.1	57.5	61.4	53.5	47.0	48.8	56.8	51.8
_1188	1181	K.YDVEDVIGLTL SK.N	2	79.8	73.6	134.0	129.0	104.0	90.9	136.5	151.6
MSMEG	MSMEG	R.FVEQIFS AEQQQPK.E	2	21.3	20.8	15.9	19.4	19.2	18.3	27.8	20.3
_1203	1198	R.QYASTALHPRWR.A	2	50.3	29.0	176.7	153.3	17.6	13.6	143.7	150.9
MSMEG	MSMEG	K.TIGLLNLVSSGGR.I	2	2.8	2.1	10.4	8.1	3.1	3.8	16.3	14.7
_1225	1218	R.LAAEHAPSEDSTAVAQMP									
_1244	1236	GR.K	3	6.1	5.9	4.3	4.5	4.7	6.4	3.4	3.6

		R.LGLSSLLSDVADTVYLR.T	2	4.7	5.2	3.6	4.8	5.0	5.9	1.8	3.0
		R.TAGPTFLNVATALFR.E	2	5.2	4.9	16.7	11.6	11.1	8.7	7.0	4.7
		R.TLFSFVTGAEPALPR.Y	2	14.8	12.2	11.7	10.6	16.0	17.3	5.1	9.6
MSMEG	MSMEG										
_1247	1240	K.VVQVGGVEILDELPK.K	2	10.5	11.8	227.1	210.3	61.4	47.6	279.6	235.2
		R.LAQDLGDQPWTVVLEILD									
		SK.K	2	18.3	21.5	70.1	80.7	33.6	56.4	67.6	111.2
		R.SDVSDEELFTAQLQTGFR.									
		R	2	28.9	33.3	125.1	128.7	64.6	73.3	147.3	155.2
MSMEG	MSMEG										
_1252	1245	R.TFDAAADTGQVGGLR.R	2	4.8	3.9	49.0	48.1	2.3	3.5	19.6	23.1
MSMEG	MSMEG										
_1253	1247	R.AAGTGFTNVDMMPVQR.F	2	34.0	35.4	37.4	39.5	36.9	34.7	13.9	19.2
		R.FLAGDYSQPVEVIDFER.L	2	0.6	0.9	9.6	9.6	7.3	9.3	11.0	11.3
		R.LTEFAEPNALWK.L	2	2.9	3.6	17.1	16.0	5.2	5.1	31.9	29.7
		R.LVLDPYGQQLLLR.L	2	0.3	0.6	19.0	18.9	6.9	7.2	20.5	23.4
		R.VSTESLEPGSTEPAPQTD									
		VAIGKPVR.S	3	0.7	1.1	23.4	29.5	10.3	12.3	23.6	28.8
MSMEG	MSMEG										
_1254	1248	K.GVWEFLVR.R	2	0.4	0.3	0.6	1.3	2.2	1.9	1.8	2.5
		K.TESFLLPILDSLVR.E	2	1.0	0.9	12.0	11.7	7.4	6.4	18.8	14.6
		R.VLQALQC*EVDAEQLLK.G	2	59.8	56.2	14.0	15.7	33.7	19.7	18.2	19.4
MSMEG	MSMEG	K.SWLVEDGVEPESIAVLTR.									
_1255	1249	S	2	39.9	49.4	45.4	50.2	28.8	37.3	37.4	57.2
		R.IADKPGDPGVYVGIDAL									
		GR.D	3	161.2	150.2	256.4	217.5	112.5	109.9	171.9	172.7
		R.IVLTTFNATLAQGLK.T	2	22.7	25.3	60.2	56.2	57.7	37.1	101.4	76.9
		R.SVPPSPKPVLSYLAGVG									
		YTLADLTER.L	3	4.1	6.2	17.6	20.6	15.7	27.3	35.9	57.0
		R.VFGHVFEFGSK.R	3	116.8	68.6	125.6	66.5	95.8	56.3	117.5	78.7
		R.VIEGGDFAAWR.T	2	10.9	13.3	11.9	22.5	16.4	21.5	23.9	29.9
MSMEG	MSMEG	K.IAC#DAVLVPTDDHFTIA									
_1265	1257	PWR.G	3	190.3	194.8	148.3	145.5	182.1	193.6	189.0	183.7

		K.IAC*DAVLVPTDDHFTIEAP									
		WR.G	3	190.3	194.1	147.7	145.5	181.1	193.6	189.0	182.5
		K.TAGSPLDSVGHLVEEFLK.									
		D	2	73.3	67.7	116.9	106.9	83.2	65.4	140.1	120.3
		K.TAGSPLDSVGHLVEEFLK.									
		D	3	138.0	133.5	163.1	149.1	132.9	117.6	179.6	169.6
		R.GVALTLYADPLDR.Q	2	154.9	180.2	243.4	307.6	103.4	131.2	153.4	252.3
MSMEG	MSMEG										
_1285	1277	R.ALAEQWLLVDR.S	2	14.0	14.4	223.0	200.8	34.4	28.9	306.8	190.3
		R.VLPTGSIMQFFGGIER.V	2	13.1	18.4	29.7	45.9	27.4	25.2	31.6	46.4
MSMEG	MSMEG	R.LPVAALVTGAGTNLLAAA									
_1292	1284	DVLRS.S	3	12.0	11.0	20.8	20.1	5.0	5.1	23.3	15.9
MSMEG	MSMEG										
_1295	1287	R.IPDLYTGPASGIHR.L	3	1.5	2.0	31.5	32.0	2.8	4.6	29.8	28.5
MSMEG	MSMEG	R.GDFSGAHLTGDQSQVLP									
_1296	1288	TDSQK.Q	3	171.9	170.8	408.8	431.1	105.9	109.8	257.7	308.8
		R.VMATSLIAQWR.F	2	3.0	3.7	37.6	43.1	2.1	2.5	18.9	16.8
MSMEG	MSMEG	R.AQQVATEAAALHTNAHVA									
_1331	1324	SK.L	4	8.6	6.9	7.4	5.9	12.0	9.3	10.6	8.2
MSMEG	MSMEG	K.LPGDPTVYPGHWYSAEP									
_1334	1327	SAPLEEVKR.S	4	140.9	173.6	66.2	96.0	117.9	135.8	85.9	112.1
		R.LVAGDTLFLEG#GR.T	2	98.0	109.9	76.3	93.7	77.8	82.2	63.4	76.4
		R.SPVHVNSHEADWVSQV									
		TGIAR.S	3	134.2	153.1	53.6	63.0	108.8	123.1	45.5	51.6
MSMEG	MSMEG	K.NIITNDAGEIVQEAYTTLA									
_1340	1333	GR.A	2	120.0	198.8	129.1	197.0	138.4	138.9	138.9	123.9
		K.NIITNDAGEIVQEAYTTLA									
		GR.A	3	186.7	131.8	191.0	146.4	158.8	190.4	159.9	167.0
		R.LYC#DVYVHAVR.R	3	17.9	13.1	6.6	4.7	17.8	16.8	4.1	3.8
		R.YPDFYEVGR.E	2	74.2	66.6	44.6	43.1	61.7	74.1	37.3	43.7
MSMEG	MSMEG										
_1341	1334	K.LVTIAISATAGGK.K	2	111.6	118.4	114.2	116.6	114.7	112.9	103.0	92.6
		R.FTAVVPVPNDGVGAEITF									
		NGR.V	2	102.9	100.7	98.2	94.4	112.6	117.7	98.8	99.2
		R.GDLVNYAGVSGDLNPIHW									
		DDEIAK.Q	3	590.6	761.7	618.0	812.5	627.6	705.3	612.7	629.8

MSMEG	MSMEG												
_1342	1335	K.YPDPFLIGR.E R.FGADIVVTR.N	2 2	86.8 30.8	84.0 24.8	49.4 11.1	45.7 9.6	90.6 27.7	93.0 24.0	43.8 8.8	42.5 7.6		
MSMEG	MSMEG	R.RGVAESTDEPETAAEAAA											
_1344	1337	AVEAGGK.A	3	39.0	50.8	15.3	20.9	62.6	65.7	10.6	13.9		
MSMEG	MSMEG												
_1345	1338	R.ETPVELTFNQVAK.- R.ETPVELTFNQVAK.I R.LKPGDWYVIHSYAGYENK .V	2 2 4	781.6 751.0 46.0	723.7 778.9 54.2	624.9 555.7 26.9	585.8 599.9 16.7	687.8 706.9 34.5	666.5 683.7 44.9	648.5 631.2 20.1	652.6 651.6 15.2		
MSMEG	MSMEG												
_1346	1339	K.ADLNANDIDAAK.I R.GNVIPVEITVYEDR.S	2 2	0.5 897.8	0.0 854.8	2.7 885.0	0.0 857.4	0.2 754.9	0.4 817.9	2.2 829.2	1.9 842.0		
MSMEG	MSMEG	K.AEQAQAAAGADIVGSDDLIE											
_1347	1340	K.I K.AEQAQAAAGADIVGSDDLIE K.I K.IQGGFLDFDAAIATPDQM* AK.V K.IQGGFLDFDAAIATPDQM AK.V K.KQDATVEVAIR.L K.KQDATVEVAIR.L K.KVTVSTTTGPGIPVDPST R.N K.KVTVSTTTGPGIPVDPST R.N K.LAENYGAALDEVLR.A K.LAENYGAALDEVLR.A K.VTVSTTTGPGIPVDPST R.N K.VTVSTTTGPGIPVDPST R.N	2 2 3 2 2 2 2 2 3 2 2 3 3 2 2 3 3	846.4 261.3 45.6 60.2 410.7 23.0 45.6 93.1 592.3 1426.3 35.0 1632.5 227.5	899.8 274.2 32.1 56.6 402.0 17.5 32.1 90.6 656.5 1518.9 38.5 1597.6 215.1	462.9 145.2 29.0 18.0 214.7 11.9 24.1 51.2 417.2 776.2 11.4 875.9 90.0	490.3 138.3 24.1 21.5 204.9 8.7 80.5 50.1 443.1 776.7 6.3 902.1 90.4	1032.6 331.8 80.5 134.7 567.6 45.3 43.1 1871.9 698.8 43.1 1958.2 255.2	1085.9 334.3 51.4 139.0 503.4 32.3 40.0 919.8 622.6 40.0 266.8 265.3	549.0 200.4 46.0 98.5 523.6 16.0 5.7 919.8 523.6 1622.2 923.7 1008.9 83.5	591.6 190.6 34.6 90.2 484.2 12.6 8.8 93.2 484.2 888.8 8.8 1008.9 93.2	263.7 32.3 46.0 263.7 256.7 16.0 46.0 90.2 484.2 888.8 8.8 1008.9 93.2	256.7 12.6 34.6 256.7 256.7 12.6 34.6 90.2 484.2 888.8 8.8 1008.9 93.2
MSMEG	MSMEG												
_1350	1343	K.LGLHMTFEDAR.F K.LTQLQEIGPHYVR.T K.LTQLQEIGPHYVR.T	3 2 3	28.6 28.5 119.7	25.3 17.6 108.6	8.5 112.9 65.8	6.5 106.5 60.9	60.4 69.8 258.1	55.4 64.9 266.8	6.7 88.4 70.7	9.5 88.0 73.5		

		K.YDVNVIGLTLSGEQR.E	2	125.5	132.4	87.2	91.6	176.9	161.4	79.2	81.6
		R.FIMTEIFPGGR.L	2	54.6	61.3	25.1	25.4	143.3	142.6	30.7	32.1
		R.IVSIGAFEHFGFER.Y	2	263.2	278.0	33.5	48.6	314.7	297.4	30.6	41.6
MSMEG	MSMEG	R.SPAVYTLEDM#ADDAAAL									
_1352	1345	LDHLEIDR.A	3	5.1	8.2	6.2	9.1	2.9	6.3	5.1	6.5
MSMEG	MSMEG										
_1364	1357	K.AAGLFNAPASQVAR.L	2	216.3	173.1	141.9	111.4	224.5	293.8	143.4	172.4
		K.ASTATVVTEYR.G	2	5.3	5.2	3.8	3.1	5.7	5.1	2.0	2.5
		K.ATAVADIAEQFK.A	2	477.9	561.6	350.2	399.6	547.7	546.9	394.5	392.3
		K.RAASEAGIEGLDELFAGP									
		TAIAFK.G	3	13.7	13.9	7.9	9.9	38.8	41.3	21.9	23.2
		R.AASEAGIEGLDELFAGPT									
		AIAFK.G	2	300.2	342.8	215.9	242.4	299.8	316.6	197.7	187.3
		R.AASEAGIEGLDELFAGPT									
		AIAFK.G	3	446.1	457.7	380.2	367.8	389.5	490.1	321.3	361.7
		R.ALGDSATYTVAK.N	2	5.6	5.4	3.0	2.5	5.4	5.6	1.7	2.0
		R.GLTVanlaelr.R	2	565.7	593.9	440.8	418.9	613.6	624.7	482.0	416.9
MSMEG	MSMEG										
_1365	1358	K.AKLEAAGASVTVK.-	2	1.4	1.0	0.4	0.2	2.2	1.5	2.0	0.8
		K.AKLEAAGASVTVK	2	31.2	23.3	41.5	29.3	46.4	36.6	55.8	40.1
		K.AKLEAAGASVTVK	3	26.6	9.8	19.3	7.3	42.1	33.1	29.0	21.9
		K.DLVDSAPKPLLEK.V	2	905.1	1133.2	654.9	837.4	988.8	1011.8	687.3	644.7
		K.EM*TLLELSEFVK.Q	2	280.3	232.0	207.8	168.9	233.1	210.5	175.0	141.3
		K.EMTLLELSEFVK.Q	2	674.8	648.1	549.6	526.1	565.4	575.7	436.9	427.9
		K.LEAAGASVTVK	2	47.5	38.2	51.7	41.9	47.9	34.5	50.6	34.4
		K.LSTEELLDASF.K.E	2	395.0	373.9	267.9	247.9	500.1	450.0	341.3	291.9
MSMEG	MSMEG	K.AGWNIDVAAGVPDWASK.									
_1367	1360	L	2	281.6	249.4	166.1	146.7	256.7	277.0	172.9	168.6
		K.ALGWTNEQIVER.F	2	951.1	975.9	579.9	529.3	983.1	652.7	518.2	440.6
		K.DMTYAAPLFVTAEFINNN									
		GEIK.S	3	44.5	56.0	22.0	25.9	19.8	34.1	9.5	18.4
		K.DTTSGTDEALLDIYR.K	2	548.9	569.2	368.9	353.6	429.9	462.2	337.2	308.3
		K.DTTSGTDEALLDIYR.K.L	2	15.3	14.1	23.9	23.8	33.7	26.9	40.1	40.9
		K.EFFGTSQLSQFM*DQNNP									
		LSGLTHK.R	3	264.0	248.7	147.9	150.2	206.4	200.1	119.2	109.9
		K.EFFGTSQLSQFMDQNNPL									
		SGLTHK.R	3	476.4	546.8	287.6	339.4	371.6	420.3	242.3	270.4

K.ESAQTLLLENLFFK.E	2	310.9	254.8	174.3	136.1	360.5	230.8	220.8	132.8
K.ESAQTLLLENLFFK.E	3	4.1	6.3	1.4	2.0	3.2	4.9	0.4	2.1
K.GENIPEPGIPESFK.V	2	579.0	690.6	380.9	423.2	551.6	665.6	406.7	433.7
K.GGEVEFVSADQVDYMDV									
SPR.Q	2	63.0	52.9	40.5	34.0	46.8	42.6	24.5	22.8
K.ILPVEDM#PFLPDGTPVDII									
LNTHGVP.R	3	185.3	189.5	120.6	116.8	130.6	148.9	88.7	100.1
K.ILPVEDM*PFLPDGTPVDII									
LNTHGVP.R	3	185.3	187.3	120.6	116.8	129.0	146.6	88.7	100.1
K.ILPVEDMPFLPDGTPVDIIL									
NTHGVPR.R	3	436.5	498.0	295.2	308.9	217.4	374.2	169.1	257.1
K.LGLNAGKPITSSTLTEEDV									
VATIEYLVR.L	3	284.5	365.7	156.1	207.4	197.0	294.5	119.5	177.9
K.LGLNAGKPITSSTLTEEDV									
VATIEYLVR.L	4	12.2	15.8	6.7	9.6	10.7	12.5	6.4	8.3
K.LREPLEVPGLLDVQTDSF									
EWLVGSDR.W	3	69.2	67.2	35.8	36.0	52.5	67.5	31.6	37.2
K.PITSSTLTEEDVVATIEYLV									
R.L	3	19.8	21.3	8.9	11.0	16.1	15.5	7.9	8.0
K.SNAITNNSVPGAPNR.V	2	1.5	1.5	0.7	0.8	1.2	1.5	0.5	0.9
K.SQTVFM*GDFPMTEK.G	2	38.0	30.9	12.2	13.7	18.4	20.2	3.4	5.2
K.SQTVFMGDFPM*M*TEK.									
G	2	37.0	34.4	8.3	12.4	19.9	20.4	3.6	5.0
K.SQTVFMGDFPM*MTEK.G	2	39.6	34.4	12.8	15.6	19.9	20.4	3.6	5.2
K.SQTVFMGDFPM**TEK.G	2	40.2	35.6	12.8	15.9	20.9	21.1	3.7	5.0
K.SQTVFMGDFPMTEK.G	2	122.4	110.6	82.5	70.3	82.2	82.2	60.1	56.8
K.TGVIEEVSAODYITVMADDG									
TR.Q	2	102.4	104.1	67.8	66.2	84.2	101.6	53.3	56.3
R.AAANLGINLSR.N	2	72.3	54.6	30.2	27.2	60.2	50.2	27.1	26.1
R.AAIDAGDVVADK.T	2	24.2	26.1	11.9	14.0	23.2	22.9	11.0	12.0
R.DIPNVSDEVLADLDER.G	2	575.2	539.7	352.0	314.6	551.7	573.9	350.3	336.7
R.DIPNVSDEVLADLDER.G	3	46.1	47.0	18.3	22.5	25.3	45.1	8.7	22.3
R.EDDDELPAVGVELVR.V	2	375.2	363.0	233.4	214.2	239.5	258.3	152.4	160.5

R.FGFSEIM*M*GTLEK.D	2	34.7	30.9	14.0	13.0	28.0	24.5	11.8	9.6
R.FGFSEIM*MGTLEK.D	2	45.8	42.3	19.8	18.0	32.0	30.2	11.8	12.7
R.FGFSEIMM#GTLEK.D	2	34.7	30.9	14.0	13.0	28.0	24.5	14.3	9.6
R.FGFSEIMM*GTLEK.D	2	34.7	30.9	14.0	13.0	28.0	24.5	14.3	9.6
R.FGFSEIMMGTL.E	2	149.5	134.2	100.5	85.6	141.2	109.7	107.3	73.7
R.GAWLEFDVDKR.D	2	65.1	61.6	29.1	30.5	66.1	74.7	33.8	42.9
R.KKGGEVFVSADQV р DVSPR.Q	3	31.0	30.4	5.2	6.0	32.8	31.2	7.0	8.5
R.LSALGPGLSR.E	2	3.2	4.4	16.7	15.6	2.7	3.5	13.5	19.2
R.LVEEDVLTSIHIEEHEIDAR .D	3	289.1	223.4	149.1	114.5	375.8	294.1	240.3	165.0
R.LVEEDVLTSIHIEEHEIDAR .D	4	198.0	162.8	100.3	84.4	215.7	193.1	118.2	98.4
R.M#NIGQILETHLGWVAK.A	3	54.9	61.0	37.2	39.0	34.4	41.3	23.3	25.8
R.M#TTQDVЕАITPQLINIR PVVAIK.E	3	168.8	163.8	122.9	117.7	118.9	103.1	86.9	75.7
R.M*NIGQILETHLGWVAK.A	3	54.9	61.0	32.6	32.8	34.4	40.6	23.3	25.8
R.M*TTQDVЕАITPQLINIR. P	2	47.1	42.4	20.9	21.7	21.2	19.0	12.7	19.2
R.M*TTQDVЕАITPQLINIRP VVAAIK.E	3	130.9	122.4	82.3	74.2	118.6	103.1	86.9	75.7
R.MNIGQILETHLGWVAK.A	2	23.4	20.0	18.5	16.6	42.1	26.1	33.8	18.6
R.MNIGQILETHLGWVAK.A	3	63.6	61.3	32.6	32.8	86.0	73.4	52.6	38.9
R.MTTQDVЕАITPQLINIR.P	2	47.6	46.6	20.9	21.7	52.4	49.7	32.3	41.1
R.MTTQDVЕАITPQLINIR.P	3	54.6	47.6	9.0	14.9	24.9	35.2	5.1	15.1
R.MTTQDVЕАITPQLINIRP VVAAIK.E	3	130.9	122.4	82.3	74.2	154.6	143.2	105.5	96.9
R.RMNIGQILETHLGWVAK.A	3	2.7	2.1	0.2	0.0	7.8	8.1	1.6	1.5
R.SEAPLVGTGMELR.A	2	344.3	334.7	204.8	189.7	290.5	273.0	185.7	154.4
R.SGEPFPYPVTGYMYILK. L	2	154.6	148.8	97.0	85.8	142.4	155.0	109.1	103.8
R.SPGVYFDETIDK.S	2	436.0	408.0	343.0	307.6	340.3	387.0	277.4	241.9

	R.SPGVYFDETIDKSTEK.T	3	47.4	54.9	1.2	2.1	49.2	53.1	9.1	15.2	
	R.STGPYSM#ITQQPLGGK.A	2	105.1	96.7	57.5	53.8	64.3	62.2	35.9	38.1	
	R.STGPYSM#ITQQPLGGK.A	2	102.9	95.2	54.0	49.2	62.2	60.9	33.8	36.2	
	R.STGPYSMITQQPLGGK.A	2	329.7	306.9	218.9	201.4	287.2	247.4	202.1	166.0	
	R.TVGELIQNQIR.V	2	423.0	427.0	318.1	312.7	376.9	347.2	315.3	266.9	
	R.VEAGQVIADGPC#TQNGE										
	MALGK.N	2	66.3	64.5	39.0	40.6	62.4	64.8	40.3	35.4	
	R.VEAGQVIADGPC#TQNGE										
	MALGK.N	3	141.6	178.7	103.3	132.5	91.4	134.6	64.9	96.4	
	R.VEAGQVIADGPC*TQNGE										
	MALGK.N	3	141.6	178.7	103.3	132.5	91.4	134.6	64.9	96.4	
	R.VFSREDDDELPAVGVELV										
	R.V	2	19.2	20.3	4.2	4.9	37.2	35.1	12.1	14.1	
	R.VFSREDDDELPAVGVELV										
	R.V	3	290.0	308.2	167.3	192.8	336.0	361.9	212.8	242.5	
	R.VNPFGFIETPYR.K	2	426.6	355.1	295.4	250.9	373.9	355.6	294.4	257.3	
MSMEG	MSMEG										
_1368	1361	-M#LDVNFFDELR.I	2	102.5	96.0	52.8	47.6	64.3	56.1	37.4	30.5
		-M*LDVNFFDELR.I	2	44.6	48.7	23.5	24.0	50.1	47.7	35.2	28.8
		-MLDVNFFDELR.I	2	44.6	48.7	23.5	24.0	50.1	47.7	35.2	28.8
		K.ALEEFYPADNPIITIVK.S	2	847.0	779.7	684.6	658.8	911.0	697.8	1032.3	816.9
		K.ALEEFYPADNPIITIVK.S	3	49.0	60.3	26.7	32.0	31.3	49.0	18.9	39.8
		K.ASLATDSWLSAASFQETT									
		R.V	2	285.4	246.2	138.9	123.6	248.1	227.9	157.5	138.2
		K.ASLATDSWLSAASFQETT									
		R.V	3	267.3	233.9	14.5	22.3	56.3	83.2	3.3	23.3
		K.DAPEQGVYSSPAEAIMAM									
		DR.G	2	118.2	107.3	54.3	52.4	75.8	77.5	36.6	45.6
		K.DAPEQGVYSSPAEAIMAM									
		DR.G	3	81.2	79.5	40.1	39.8	29.9	49.6	13.9	31.9
		K.HIEVIVR.Q	2	5.8	4.2	1.5	1.3	4.4	3.7	1.1	1.3
		K.ITIVPDDGGEVVYDK.L	2	894.2	964.7	632.4	671.0	727.5	786.1	603.5	647.6
		K.LEADLAELEAEGAK.S	2	665.5	716.3	465.5	528.3	541.2	532.6	479.2	444.9
		K.LEADLAELEAEGAK.S	3	8.1	11.8	0.9	2.6	3.6	8.5	0.3	2.0

K.LIENFDIDAEAESLR.E	2	458.7	446.0	264.2	231.5	441.9	407.9	287.4	254.1
K.LIENFDIDAEAESLR.E	3	24.6	25.5	6.7	9.0	14.5	23.1	3.2	9.0
K.LM*ALELFKPFVM*K.R	3	11.9	10.5	0.8	1.7	8.2	9.7	0.7	2.6
K.LM*ALELFKPFVMK.R	3	20.8	25.6	3.7	5.8	19.3	18.6	5.1	5.4
K.LMALELFK.P	2	22.1	19.2	4.9	5.7	13.7	11.7	4.5	3.4
K.LMALELFKPFVM*K.R	2	5.3	6.9	7.9	10.0	7.9	8.4	9.0	10.9
K.LMALELFKPFVMK.R	2	16.1	15.6	12.0	12.2	28.4	15.1	22.5	13.7
K.LVDIGEAVGIVAAQSIGEP									
GTQLTM*R.T	3	34.4	56.6	81.0	65.7	38.6	42.1	84.0	78.4
K.LVDIGEAVGIVAAQSIGEP									
GTQLTMR.T	3	175.1	182.1	111.7	116.1	131.7	136.2	111.9	106.4
K.LVDIGEAVGIVAAQSIGEP									
GTQLTMR.T	4	26.7	28.2	9.8	11.9	19.6	22.3	8.4	9.6
K.QLIVDEVLYR.E	2	59.6	48.9	34.5	27.8	77.4	70.8	57.1	47.8
R.AQKLEADLAELEAEGAK.S	2	10.8	8.2	9.6	6.5	27.6	19.7	26.5	18.0
R.AQKLEADLAELEAEGAK.S	3	8.2	9.8	17.4	16.3	24.6	28.0	29.3	30.0
R.DAHVETSAFAR.T	2	1.4	0.9	0.3	0.1	0.9	0.7	0.1	0.1
R.DAHVETSAFAR.T	3	1.4	0.7	0.1	0.0	0.6	0.6	0.0	0.0
R.EGLTVLEYFINTHGAR.K	2	72.3	73.7	42.9	44.0	102.8	74.8	80.2	59.9
R.EGLTVLEYFINTHGAR.K	3	172.3	191.4	79.4	87.5	202.7	177.2	119.9	96.6
R.ELDRLDEIWNTFTK.L	2	88.9	81.1	40.9	41.4	99.6	80.8	56.8	44.5
R.ELDRLDEIWNTFTK.L	3	56.4	67.8	27.0	30.2	55.2	57.3	33.2	32.8
R.FATSDLNDLYR.R	2	494.0	484.1	270.9	275.3	354.6	350.9	232.6	242.7
R.FPM*IVVAQTVDK.L	2	114.7	122.7	51.4	67.2	77.0	82.1	39.5	46.3
R.FPMIVVAQTVDK.L	2	411.3	411.0	276.8	238.2	361.2	294.4	301.8	214.8
R.GHDLGDPAI D ALLAAGITT									
VK.V	2	37.0	36.9	33.4	31.3	39.5	35.0	50.0	45.5
R.GHDLGDPAI D ALLAAGITT									
VK.V	4	5.9	6.3	33.2	12.7	11.1	9.4	7.2	19.2
R.HNELSTLEAEM*AVEK.K	2	16.5	13.8	4.7	3.8	12.2	9.7	2.8	1.1
R.HNELSTLEAEM*AVEKK.A	3	1.7	2.0	0.9	1.3	2.9	3.5	0.7	2.0
R.HNELSTLEAEMAVEK.K	2	105.2	100.5	48.8	47.5	70.6	78.2	41.5	43.0
R.HNELSTLEAEMAVEK.K	3	104.2	95.7	44.3	40.5	61.7	68.3	29.3	34.0
R.IGLATADDIR.N	2	18.8	20.6	7.9	11.0	15.3	16.3	7.4	9.0

R.ILM*LSSNNILSPASGK.P	2	48.9	58.3	14.5	14.8	43.4	43.7	5.4	6.2
R.ILM*LSSNNILSPASGKPLA									
M*PR.L	3	42.0	43.7	25.4	32.8	23.4	30.0	23.6	28.6
R.ILMLSSNNILSPASGK.P	2	172.4	167.2	91.7	89.7	84.1	85.8	52.7	55.5
R.ILMLSSNNILSPASGKPLA									
M*PR.L	3	141.7	121.5	174.9	160.6	88.2	82.6	147.7	154.3
R.ILMLSSNNILSPASGKPLA									
MPR.L	3	291.7	281.5	174.9	160.6	204.1	220.0	147.7	154.3
R.LDEIWNTFTK.L	2	61.4	55.3	31.1	26.9	32.5	30.7	14.6	14.6
R.LDM*VTGLYYLTTLVEGAT									
GEYQAATK.D	3	35.8	45.8	19.4	24.3	10.9	23.4	7.0	14.3
R.LGIQAFEPQLVEGK.A	2	472.7	544.4	288.7	310.7	413.3	477.3	347.4	373.8
R.LGYLLDLAPK.D	2	418.9	389.3	203.0	179.1	397.4	364.7	229.1	203.8
R.LIDLGAPEIIVNNEK.R	2	1202.8	1213.7	1032.4	1041.9	1119.2	1182.7	1044.5	1020.9
R.LIDLGAPEIIVNNEKR.M	2	13.0	9.8	0.8	1.8	28.4	18.8	6.7	6.7
R.LVDVSQDVIVR.E	2	421.0	416.6	280.0	272.3	352.3	323.1	281.2	246.2
R.M#GHIELAAPVTHIWYFK.									
G	3	74.9	59.6	27.0	23.1	59.6	44.7	24.6	16.0
R.M#LQESVDALFDNGR.R	2	63.2	60.6	26.4	26.6	19.5	21.0	9.1	9.2
R.M*GHIELAAPVTHIWYFK.									
G	3	47.3	37.3	23.1	17.2	58.0	43.2	24.6	16.0
R.M*GHIELAAPVTHIWYFK.									
G	4	59.5	50.5	22.3	18.9	36.9	38.3	17.9	21.5
R.M*LQESVDALFDNGR.R	2	63.2	60.6	26.4	26.6	19.5	21.0	9.1	9.2
R.MGHIELAAPVTHIWYFK.G	3	47.3	37.3	23.1	17.2	59.4	46.3	44.0	30.5
R.MGHIELAAPVTHIWYFK.G	4	59.5	50.5	22.3	18.9	59.7	65.5	30.1	32.4
R.MLQESVDALFDNGR.R	2	72.2	68.6	32.2	31.4	50.7	51.4	31.4	31.2
R.QRPQVWDVLEEVIAEHPV									
LLNR.A	3	9.3	9.4	3.3	3.9	11.1	10.3	6.8	5.6
R.QRPQVWDVLEEVIAEHPV									
LLNR.A	4	9.2	10.2	3.1	4.2	8.9	11.4	5.4	6.2
R.RLVDVSDQDVIVR.E	2	26.9	25.7	55.1	43.6	56.9	43.5	109.4	80.3
R.RLVDVSDQDVIVR.E	3	33.4	33.4	61.1	45.1	46.7	48.6	84.7	79.4
R.RVTIIDSGSTEFLPGSLTE									
R.A	2	3.1	4.3	1.4	1.1	7.9	7.8	1.0	0.8

R.RVTIIDSGSTEFLPGSLTE										
R.A	3	102.3	105.9	57.4	64.3	148.6	168.4	93.6	112.6	
R.RVVAEGGEPAAGRPVLM*										
GITK.A	3	13.6	12.6	3.1	3.2	13.6	10.9	3.5	3.5	
R.RVVAEGGEPAAGRPVLM										
GITK.A	3	49.6	46.3	16.1	16.9	61.7	54.9	21.8	26.1	
R.SVIVVGPQLK.L	2	24.4	24.7	5.8	9.2	21.0	19.7	4.1	6.1	
R.SVLTC#TSATGVC#AMC#										
YGR.S	2	37.6	34.2	16.7	20.3	36.1	28.3	22.7	19.8	
R.SVLTC*TSATGVC*AMC*Y										
GR.S	2	37.6	34.2	16.7	20.3	36.1	28.3	22.7	19.8	
R.TFHQGGVTGGADIVGGLP										
R.V	2	65.3	59.5	36.2	35.3	82.2	52.3	53.0	37.8	
R.TFHQGGVTGGADIVGGLP										
R.V	3	441.3	392.8	258.4	244.2	370.1	326.8	265.7	246.6	
R.TLATDAVDANGNVIIER.G	2	352.2	354.7	220.9	218.1	331.3	308.4	294.0	238.5	
R.TLATDAVDANGNVIIER.G	3	46.1	45.2	43.5	51.4	32.6	45.4	42.3	56.9	
R.VM*FNELLPK.S	2	57.4	52.6	25.4	28.2	40.4	39.4	22.8	23.0	
R.VMFNELLPK.S	2	217.5	197.9	130.0	124.6	173.1	158.1	131.1	119.7	
R.VRLEESDKFFK.I	2	15.6	13.1	1.8	0.9	29.9	18.1	14.7	7.8	
R.VRLEESDKFFK.I	3	48.6	43.8	18.4	17.3	61.7	65.6	33.3	36.1	
R.RVTIIDSGSTEFLPGSLTER.										
A	2	623.3	563.7	352.3	316.1	465.8	442.7	344.8	301.5	
R.RVVAEGGEPAAGRPVLM*G										
ITK.A	2	3.6	3.0	8.0	6.8	5.3	2.8	11.9	6.4	
R.RVVAEGGEPAAGRPVLMGI										
TK.A	2	39.0	32.8	15.0	9.3	54.1	29.0	25.5	12.1	
R.RYGEYFTGAM#GAESIK.K	2	65.1	64.4	25.1	29.6	43.5	37.0	16.1	18.6	
R.RYGEYFTGAM#GAESIK.K	3	44.1	42.6	20.7	20.9	30.8	33.7	18.8	20.1	
R.RYGEYFTGAM*GAESIK.K	2	65.1	64.4	24.7	29.2	43.5	37.0	15.8	18.3	
R.RYGEYFTGAM*GAESIK.K	2	5.8	5.7	1.4	2.5	9.1	6.6	5.9	3.0	

		R.YGEYFTGAM*GAESIKK.L	3	44.1	42.6	20.7	20.9	30.8	33.7	18.8	20.1
		R.YGEYFTGAMGAESIK.K	2	204.0	191.7	168.6	157.9	125.1	119.3	135.9	127.7
		R.YGEYFTGAMGAESIKK.L	2	56.1	53.5	50.6	47.2	58.9	47.2	61.4	47.3
MSMEG	MSMEG	R.YGEYFTGAMGAESIKK.L	3	87.0	80.5	42.1	37.3	79.4	78.0	45.8	43.6
_1383	1376	K.ALDALTDVPLVYLENTAG									
		GDHAMAR.H	3	118.5	116.0	78.3	86.8	101.8	102.7	95.5	94.9
		R.HANFGAGQIDPQLLAAVV									
MSMEG	MSMEG	K.A	3	43.8	37.3	13.2	10.2	35.9	35.5	12.8	10.3
_1384	1378	K.AGTSTVWTVTETLR.K	2	27.8	39.8	83.8	93.5	23.3	23.8	78.0	79.7
MSMEG	MSMEG	K.IDKDLTVVGLNNNTITYR.D	3	12.2	18.0	179.7	203.0	14.5	18.5	194.3	169.7
MSMEG	MSMEG	R.VIDDIIISMLNR.V	2	3.5	6.1	85.9	85.6	2.1	3.2	63.6	56.4
MSMEG	MSMEG	K.LTSQVEVTAYIPGEGHNL									
_1397	1392	QEHSMVLVR.G	4	102.0	92.8	46.8	43.5	104.9	121.6	40.8	42.9
MSMEG	MSMEG	K.RPLVNDPVYGSQQLVTQLV									
_1398	1393	NK.V	2	231.9	168.4	105.4	75.5	216.3	186.3	98.2	78.3
MSMEG	MSMEG	K.RPLVNDPVYGSQQLVTQLV									
_1399	1394	NK.V	3	3090.8	3241.0	1548.5	1683.7	2795.7	3051.6	1502.9	1504.5
		R.ALNVKPALEVR.S	2	22.9	20.8	11.9	14.1	22.8	23.8	11.4	12.3
		R.ALNVKPALEVR.S	3	98.8	0.0	31.0	0.0	102.3	113.7	32.3	31.6
		R.IVYGALEQAR.E	2	30.1	31.3	10.7	12.3	29.6	34.2	10.1	12.7
		R.LANEILDASNGLGASVK.R	2	1020.9	1243.2	622.0	708.5	883.5	922.4	594.1	575.0
		R.LANEILDASNGLGASVK.R	3	134.5	128.2	50.8	52.5	117.2	117.4	44.3	48.1
		R.RVGGATYQVPVEVRPDR.									
S		S	3	272.1	256.0	103.9	101.7	294.2	289.9	123.3	113.6
		R.RVGGATYQVPVEVRPDR.									
S		S	4	342.0	309.9	137.7	127.1	353.8	371.3	157.0	152.7
		R.VGGATYQVPVEVRPDR.S	2	322.0	301.6	177.4	166.6	348.0	277.5	200.5	158.2

		R.VGGATYQVPVEVRPDR.S	3	1400.3	1973.9	797.9	1105.4	1258.9	1324.4	749.9	750.6
MSMEG _1400	MSMEG 1395	K.IGETHDGASTTDWM*EQE									
		QER.G	3	34.4	37.9	35.2	37.2	30.4	35.5	21.9	25.9
		K.IGETHDGASTTDWMEQE									
		QER.G	3	582.1	503.5	630.3	511.0	419.5	419.2	484.1	447.5
		R.ILYYTGVNYK.I	2	170.5	100.5	229.0	165.2	211.7	98.3	268.8	166.0
		R.NIGIM*AHIDAGK.T	2	4.5	2.8	60.1	38.3	3.8	5.1	21.8	54.1
		R.NIGIMAHIDAGK.T	2	41.6	34.2	60.1	38.3	55.4	43.5	72.1	69.4
MSMEG _6535	MSMEG 1396	K.AQVPLSEM*FGYVGDLR.S	2	179.8	190.2	97.1	97.4	150.0	153.1	84.5	80.6
		K.AQVPLSEMFGYVGDLR.S	2	634.6	715.9	721.3	789.1	683.5	634.7	781.6	683.3
		K.AQVPLSEMFGYVGDLR.S	3	40.8	57.9	35.6	49.0	51.9	42.1	41.4	45.2
		K.LGADFYFTVR.T	2	63.3	52.2	44.1	34.9	143.1	86.0	115.7	70.7
		K.LLETVAESDEALLEK.Y	2	1226.0	1186.9	1439.0	1335.9	1445.4	1229.7	1725.7	1473.8
		K.LLETVAESDEALLEK.Y	3	100.4	87.7	96.9	94.8	102.9	94.9	109.8	98.8
		K.LTVNSELYPVLC#GSAFK.									
		N	2	161.0	151.2	191.9	185.3	142.8	140.1	183.8	185.8
		K.LTVNSELYPVLC*GSAFK.									
		N	2	160.8	151.2	191.5	184.3	142.8	139.6	183.8	185.4
		K.VLIDLEPFVGEDGATYEFE									
		NK.V	2	422.1	432.7	508.0	509.7	440.6	423.1	521.3	561.7
		K.VLIDLEPFVGEDGATYEFE									
		NK.V	3	193.6	256.5	205.2	271.4	201.4	210.8	199.8	261.3
		K.VTLLDGAYHEVDSSSEM*A									
		FK.V	3	69.4	86.7	57.2	67.1	64.4	70.5	53.7	52.7
		K.VTLLDGAYHEVDSSSEMAF									
		K.V	2	65.9	60.8	59.8	63.5	81.0	60.5	77.9	67.1
		K.VTLLDGAYHEVDSSSEMAF									
		K.V	3	372.2	360.1	426.6	387.7	379.8	337.0	466.8	390.2
		K.YEVEDIPADLADKAEEYR.	2	305.0	282.2	413.2	329.6	148.7	253.5	199.9	351.1
		K.YEVEDIPADLADKAEEYR.	T	194.0	202.2	118.2	132.5	185.2	155.3	119.7	141.2
		K.YEVEDIPADLADKAEEYR.	T	605.3	603.8	663.1	642.2	640.5	566.6	694.0	624.6

		K.YFGGEELSVDEIK.G	2	778.3	832.1	857.3	959.0	764.4	736.9	945.2	901.5
		R.ANYSMVFDSYAEVPANVS									
		K.E	2	319.5	289.3	284.7	259.6	282.2	254.0	324.5	259.5
		R.ASAGHIYAVIGLK.D	2	100.4	83.4	182.8	178.1	131.1	107.4	219.5	196.0
		R.ASAGHIYAVIGLK.D	3	145.5	112.5	100.6	64.0	177.5	150.6	144.1	101.6
		R.EFKVEANVGKPQVAYR.E	3	9.2	11.9	55.7	43.8	27.3	38.8	38.7	63.9
		R.GETALGEKYEVEDIPADLA									
		DKAEEYR.T	3	39.5	58.1	30.4	34.3	121.6	142.8	102.2	131.1
		R.GETALGEKYEVEDIPADLA									
		DKAEEYR.T	4	116.9	117.1	121.2	154.8	296.6	294.3	335.8	353.0
		R.KLTVNSELYPVLC#GSAFK									
		.N	2	63.2	71.9	338.0	351.4	73.9	105.1	139.7	209.5
		R.KLTVNSELYPVLC*GSAFK									
		.N	2	63.2	71.3	337.2	347.4	73.7	104.9	139.7	209.5
		R.KLTVNSELYPVLC*GSAFK									
		.N	3	126.5	124.3	982.5	999.1	168.8	155.1	194.7	308.8
		R.KPSVDEPFSALAFK.I	2	660.7	562.4	695.1	635.2	608.2	399.9	787.6	727.2
		R.KPSVDEPFSALAFK.I	3	363.8	316.6	429.3	369.0	454.0	389.6	555.7	464.1
		R.VYSGVVESGSQVVNSTK.									
		G	2	651.3	422.9	772.5	481.5	615.1	393.0	719.3	437.5
		R.VYSGVVESGSQVVNSTK.									
		G	3	273.7	218.1	331.9	241.9	243.6	162.8	285.4	180.0
MSMEG	MSMEG	K.LIQPVAMDEGLR.F	2	2067.4	1676.0	2361.2	1862.2	2088.5	2519.8	2282.5	2738.7
_1401	1397	K.LLDQQQAGDNVGLLL.R.G	2	4169.4	3997.8	4656.2	4486.7	5452.4	5134.1	5314.6	4906.1
		K.LLDQQQAGDNVGLLL.R.G	3	193.4	187.0	199.2	184.5	276.0	275.2	226.2	248.2
		K.SDAVDDEELIELVEM#EVR									
		.E	2	113.5	115.9	86.1	96.0	88.9	106.1	55.2	66.2
		K.SDAVDDEELIELVEM*EVR									
		.E	3	103.4	110.8	99.0	104.9	88.9	96.5	51.1	62.7
		K.SDAVDDEELIELVEMEV.R.									
		E	2	466.6	471.0	496.7	505.3	487.2	571.5	435.8	561.0
		K.SDAVDDEELIELVEMEV.R.									
		E	3	223.4	227.8	234.8	243.8	229.9	293.2	221.0	266.6

		K.SVEELMEAVDASIPDPVR.									
E	2	1472.8	1353.1	1632.8	1566.7	1339.2	1201.7	1322.4	1220.1		
K.SVEELMEAVDASIPDPVR.											
E	3	15.0	22.1	26.0	38.3	19.2	16.2	10.5	11.3		
K.TTVTGEMFR.K	2	75.2	56.4	44.7	46.9	43.5	38.7	50.8	27.8		
K.VLHDKFPLNESR.A	3	59.2	41.9	38.8	26.3	94.9	102.1	96.9	114.0		
R.AFDQIDNAPEER.Q	2	43.0	29.4	22.9	21.8	65.2	73.3	50.7	57.2		
R.ELLAQDFDEEAPVVR.V	2	6036.0	6152.8	6773.3	6827.6	7979.5	7852.6	7977.9	7790.8		
R.ELLAQDFDEEAPVVR.V	3	236.9	236.9	210.1	197.0	336.6	329.6	258.4	245.1		
R.ETDKPFLMPVEDVFTITG											
R.G	2	637.1	726.7	752.6	855.7	359.5	361.7	362.3	378.2		
R.ETDKPFLMPVEDVFTITG											
R.G	3	2640.2	2867.0	3025.5	3175.8	2160.7	1905.8	2240.1	1941.0		
R.GITINISHVEYQTDK.R	2	358.3	340.4	415.0	482.5	297.1	301.6	396.5	484.0		
R.GITINISHVEYQTDK.R	3	185.5	174.4	169.7	169.5	173.2	161.2	129.0	141.9		
R.GITINISHVEYQTDKR.H	3	1082.6	817.0	1051.0	830.2	1805.6	1863.0	1396.6	1705.8		
R.GQVVVKPGTTTPHTEFEG											
QVYILSK.D	3	2454.0	2587.0	2536.3	2658.8	2756.5	2835.5	2647.5	2656.0		
R.GQVVVKPGTTTPHTEFEG											
QVYILSK.D	4	2971.1	2958.7	3101.8	3305.2	3809.0	3770.0	3517.8	3438.0		
R.GVINVNEEVEIVGIRPETT											
K.T	2	413.9	464.3	391.8	467.5	465.0	463.3	318.3	362.2		
R.GVINVNEEVEIVGIRPETT											
K.T	3	3341.3	3171.8	3458.4	3337.9	3925.6	4148.5	3673.7	3783.2		
R.HYAHVDAPGHADYIK.N	3	41.7	19.8	32.8	14.0	62.2	40.5	44.4	28.3		
R.HYAHVDAPGHADYIK.N	4	102.2	50.9	74.2	36.8	135.2	102.8	85.1	62.8		
R.KLLDQQAGDNVGLLR.											
G	2	41.0	48.8	48.8	64.0	138.2	154.9	128.8	130.0		
R.TKPHVNIGTIGHVDHGK.T	3	28.6	11.7	18.2	6.8	64.3	34.3	48.5	22.7		
R.TKPHVNIGTIGHVDHGK.T	4	194.7	99.3	150.8	73.4	290.6	211.8	194.7	138.1		
MSMEG	MSMEG										
_1416	1415	R.IGSFPLDLQGIR.V	2	112.8	90.3	153.8	113.5	119.3	113.9	99.8	144.9

		R.LADGSELPYDELVIATGLV									
MSMEG	MSMEG	PK.R	2	170.4	172.1	201.2	160.9	178.8	174.8	262.9	220.3
_1430	1427	R.LLEAATVLLR.S	2	4.4	3.4	7.2	8.6	1.7	1.4	4.0	4.8
MSMEG	MSMEG	K.AYDHEAIDASAR.K	2	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.0
_1435	1433	K.AYDHEAIDASAR.K	3	1.3	0.8	0.2	0.1	1.7	1.1	0.4	0.1
		R.LIDILDPTPK.T	2	357.1	376.4	226.1	237.5	458.6	443.7	274.2	247.4
		R.TGASVVGPVPLPTEK.N	2	990.9	1053.7	635.7	648.1	1190.0	1250.1	704.7	674.7
MSMEG	MSMEG	K.LGMTQVFDENNK.V	2	135.3	101.7	89.6	60.0	161.0	175.2	59.0	70.4
_1436	1434	K.VHKVDAENGVLLIK.G	3	32.9	25.6	28.9	34.9	87.3	76.3	40.1	41.0
		K.VIKPVAGQFAAAGVNPR.R	2	92.2	69.2	30.3	20.2	97.4	91.0	14.5	22.9
		K.VIKPVAGQFAAAGVNPR.R	3	462.8	429.0	223.5	187.2	472.2	511.7	157.0	181.5
		R.DGYSAVQLAYGEISPR.K	2	730.0	795.4	427.4	427.3	904.5	988.3	470.6	477.5
		R.DGYSAVQLAYGEISPR.K	3	192.9	178.5	72.4	60.1	279.0	254.4	88.7	77.8
		R.KVIKPVAGQFAAAGVNPR.									
		R.KVIKPVAGQFAAAGVNPR.	2	48.0	23.0	33.6	15.2	127.1	93.4	47.9	33.0
		R.KVIKPVAGQFAAAGVNPR.	3	429.5	278.0	198.1	128.7	833.0	672.1	329.6	282.3
		R.KVIKPVAGQFAAAGVNPR.	4	360.8	218.4	173.5	101.5	706.1	577.8	289.5	231.3
MSMEG	MSMEG	K.TDGSVELPAELFDVEPNIA									
_1437	1435	LMHQVVTAAQLAAK.R	4	141.2	141.1	62.8	65.0	74.7	109.5	29.3	49.9
		R.APQFTGGGTVHGPKPR.D	4	1.9	1.1	0.2	0.1	3.1	2.2	0.5	0.2
		R.IHAVTELVEGQTPSTK.S	2	412.5	286.9	267.4	179.9	457.7	435.7	274.6	269.4
		R.IHAVTELVEGQTPSTK.S	3	832.1	641.9	445.7	323.0	842.2	853.3	431.8	428.9
MSMEG	MSMEG	K.SYGLIEDNVYTFVVHPDS									
_1438	1436	NK.T	2	60.7	46.7	37.0	30.9	88.7	72.0	38.0	32.0
		K.SYGLIEDNVYTFVVHPDS									
		NK.T	3	1094.6	1134.0	730.5	783.2	1445.7	1516.6	803.2	773.7

			R.ATVGEVGNAEQSNINWG								
MSMEG _1439	MSMEG 1437	K.A	2	1087.5	946.4	540.7	455.1	830.8	821.4	477.8	504.7
		R.ATVGEVGNAEQSNINWG									
		K.A	3	122.7	129.4	14.8	19.3	70.9	76.3	13.6	13.2
		R.GASVSDFAEITR.S	2	11.9	11.9	8.9	15.9	14.7	19.5	7.3	11.4
		R.SAGVSIQLLGK.E	2	9.0	9.2	200.0	188.2	10.6	14.1	260.7	241.1
		R.TANIALLHYLDGEK.R	2	220.7	223.5	152.9	157.9	202.8	199.7	104.5	102.2
		R.TANIALLHYLDGEK.R	3	163.6	158.1	42.8	43.5	69.2	61.6	7.9	13.7
		R.TANIALLHYLDGEKR.Y	3	285.1	279.2	174.6	177.9	248.4	232.1	189.2	189.1
MSMEG _1440	MSMEG 1438	K.HPVVFVTEAM#VGHK.L	3	51.5	28.3	19.1	10.4	50.1	48.2	15.3	17.2
		K.HPVVFVTEAM*VGHK.L	3	51.5	28.3	18.1	9.7	50.1	48.2	14.5	16.1
		K.HPVVFVTEAMVGHK.L	3	187.8	222.5	112.9	131.5	162.1	191.3	102.0	109.7
		K.KGPFVDDHLLK.K	3	13.7	10.3	1.3	0.7	17.7	18.1	1.0	1.7
		R.KHVPVFVTEAM#VGHK.L	4	17.0	9.8	4.8	2.6	17.4	15.7	4.1	3.4
		R.KHVPVFVTEAM*VGHK.L	3	6.5	4.1	1.5	0.9	7.2	5.6	1.2	1.0
		R.KHVPVFVTEAM*VGHK.L	4	17.0	9.8	4.8	2.6	17.4	15.7	4.1	3.4
		R.KHVPVFVTEAMVGHK.L	4	25.7	29.3	8.6	10.9	25.4	27.5	4.9	6.2
		R.RSTIIPDFIGHTFAVHDGR.									
		K	4	38.5	44.2	9.7	14.5	82.1	89.5	22.0	25.1
		R.STIIPDFIGHTFAVHDGR.K	2	37.6	24.7	19.2	13.0	44.1	32.1	16.4	12.9
		R.STIIPDFIGHTFAVHDGR.K	4	211.9	117.9	90.1	49.2	247.5	249.2	93.9	86.6
MSMEG _1441	MSMEG 1439	K.RTSHITVIVESRPPK.Q	4	8.7	7.8	1.6	1.7	8.4	8.8	1.7	1.6
		K.SVEEALDLR.W	2	707.4	762.9	360.9	367.2	772.9	762.4	423.2	393.5
		K.VIASAANAQNNEGLDPS									
		TLVVATVYADEGPTAK.R	3	516.6	769.6	238.8	343.6	516.4	577.6	216.3	244.2
		K.VIASAANAQNNEGLDPS									
		TLVVATVYADEGPTAK.R	4	485.6	424.3	186.0	165.1	454.8	473.1	166.3	167.3
		R.TSHITVIVESRPPK.Q	2	22.4	17.4	7.0	5.5	26.4	15.9	8.3	2.9
		R.TSHITVIVESRPPK.Q	3	128.1	110.2	61.1	51.4	135.7	116.2	71.5	55.1
		R.WAPQAASEPVAK.V	2	4.7	4.5	0.4	0.4	5.0	5.3	0.7	0.4

MSMEG	MSMEG										
_1442	1440	K.DYVKEDVAIR.K	2	14.5	8.8	14.0	8.6	13.6	12.8	16.1	14.5
		K.NPESQAQLVAQGVAEQLS									
		NR.V	2	337.1	371.8	352.9	605.5	296.9	273.4	242.0	272.3
		K.NPESQAQLVAQGVAEQLS									
		NR.V	3	1633.1	1715.3	942.7	929.8	1270.6	1248.6	852.1	799.3
		R.AATSDAPAAGTAAAAEAP									
		AESTES	2	37.8	35.9	18.7	17.4	22.3	35.7	5.8	16.9
		R.AATSDAPAAGTAAAAEAP									
		AESTES	3	25.1	25.5	8.8	9.7	13.9	22.7	2.8	7.9
		R.AGIADVEIER.T	2	41.3	34.9	68.2	61.3	27.7	30.2	14.2	51.7
		R.VDIHTARPGIVIGR.R	3	50.4	30.9	8.4	4.2	63.1	63.6	8.6	8.6
MSMEG	MSMEG										
_1443	1441	K.GSPEWWVANVKPGR.V	2	331.3	406.3	521.9	516.1	399.3	363.3	491.8	410.0
		K.VWINIFPDRPLTK.K	2	371.6	343.1	217.5	205.1	383.9	323.3	220.2	175.1
		K.VWINIFPDRPLTK.K	3	884.4	901.6	456.2	445.0	858.0	897.3	426.4	409.5
		R.GIASGGTSVSFGDYGIQA									
		LEHAYITNR.Q	3	337.2	0.0	200.1	0.0	509.9	366.1	321.5	203.5
		R.VLFELSYYPDEK.T	2	1190.3	1119.4	821.5	723.2	1204.0	1240.8	777.9	767.1
MSMEG	MSMEG										
_1445	1443	K.TAIGYVVSDK.M	2	8.7	0.0	4.4	0.0	11.5	11.1	3.3	3.7
MSMEG	MSMEG										
_1465	1462	K.FDENAAVIK.N	2	167.6	160.9	121.3	112.0	197.2	185.6	118.2	106.4
		K.IVSLAPEVL	2	7.5	1.7	8.2	2.3	11.6	15.1	10.2	15.6
		R.RYAGIGDVIVATVK.D	2	94.3	98.5	104.7	110.0	147.1	132.8	111.6	95.2
		R.RYAGIGDVIVATVK.D	3	79.2	70.7	26.5	25.6	145.3	130.0	49.6	47.1
		R.YAGIGDVIVATVK.D	2	613.6	638.7	329.6	369.5	662.7	644.3	319.8	299.2
		R.YAGIGDVIVATVK.D	3	22.1	12.8	3.7	2.3	26.1	26.3	3.6	4.1
MSMEG	MSMEG										
_1466	1463	R.GASSGGIVTQEAPIHVSN									
		VM*VVDSDGKPTR.V	3	27.5	34.7	6.5	7.9	26.5	26.3	1.9	4.7
		R.GASSGGIVTQEAPIHVSN									
		VM*VVDSDGKPTR.V	4	183.4	210.0	84.8	106.2	175.8	187.0	78.2	67.1
		R.GASSGGIVTQEAPIHVSN									
		VMVVDSGDGKPTR.V	3	63.5	72.3	34.6	36.1	62.8	57.1	23.1	22.1
		R.GASSGGIVTQEAPIHVSN									
		VMVVDSGDGKPTR.V	4	290.0	320.9	172.6	188.0	291.1	288.3	147.3	131.1

MSMEG	MSMEG	K.LINGAINDLALITGQKPEVR									
_1467	1464	.R	2	51.4	53.6	12.5	12.3	46.4	39.4	11.3	12.3
		K.LINGAINDLALITGQKPEVR									
		.R	3	1392.4	1426.1	1202.0	1281.5	1648.7	1650.0	1231.5	1163.7
		K.VVVNMGVGDAAR.D	2	8.3	7.3	17.4	12.6	5.7	5.3	20.7	22.9
		R.ALGFPFKEN	2	112.4	106.9	33.2	27.8	151.9	173.3	33.8	45.4
		R.EALQQEFNYANVM*QIPG									
		VVK.V	3	74.6	78.6	32.4	33.4	59.7	69.5	20.4	23.7
		R.EALQQEFNYANVMQIPGV									
		VK.V	2	149.5	156.9	165.6	177.4	202.2	178.3	148.9	156.5
		R.EALQQEFNYANVMQIPGV									
		VK.V	3	114.0	117.4	43.6	42.2	78.8	93.1	20.4	23.7
		R.GM#DITVVTATNDAEGR.									
		A	2	177.6	197.3	105.1	114.2	176.1	199.0	84.9	101.1
		R.GM*DITVVTATNDAEGR.									
		A	2	170.8	192.4	105.1	114.2	169.2	191.1	84.9	101.1
		R.GMDITVVTATNDAEGR.									
		A	2	380.5	399.3	348.0	352.1	439.2	444.0	362.5	346.8
		R.LISIALPR.I	2	580.9	552.8	415.9	395.9	769.6	689.3	422.1	402.6
		R.MWEFLDR.L	2	80.9	82.9	61.2	64.5	99.6	104.1	65.4	66.9
MSMEG	MSMEG										
_1469	1466	R.NANSAYHDEVTLPHSK.L	3	6.0	5.6	1.5	1.4	7.2	7.3	1.5	1.6
		R.VLGLGLGVAIISTSSGLLTD									
		R.Q	2	513.7	716.0	289.9	390.3	505.2	544.0	280.5	284.2
		R.VLGLGLGVAIISTSSGLLTD									
		R.Q	3	376.5	225.4	198.3	111.5	338.6	357.8	186.9	176.5
MSMEG	MSMEG										
_1470	1467	K.GTLTLDVAEPISVS.R.A	2	1747.0	1798.6	1119.8	1104.4	2016.6	2094.9	1193.3	1198.6
		K.M*EIFGVGYR.V	2	108.3	95.5	77.5	92.4	174.0	177.3	100.7	102.3
		K.MEIFGVGYR.V	2	185.8	184.8	107.5	123.6	239.8	240.8	122.1	122.3
		K.VGQISAVIR.R	2	4.8	4.9	0.3	0.5	4.2	4.7	0.4	0.5
		R.AEDGAIVVTRPDDERR.S	3	0.3	0.2	0.0	0.0	0.7	0.7	0.0	0.0
		R.TLIANLVTGVTEGYTQK.M	2	1066.8	1367.9	667.4	767.8	1109.5	1140.5	647.2	606.6
		R.TLIANLVTGVTEGYTQK.M	3	603.8	573.9	272.2	252.8	619.5	678.3	264.2	250.3

MSMEG	MSMEG										
_1471	1468	K.AAGVETVFDR.G	2	207.6	187.0	140.1	127.6	226.1	234.2	145.2	144.9
		K.TEGTVAHKPVGQNISEVR.									
		R	3	4.0	3.4	1.9	1.5	4.5	4.8	2.2	1.8
MSMEG	MSMEG	K.SLGSDNAINVVHATVAALK									
_1472	1469	.L	2	651.3	616.4	388.1	358.1	704.7	624.1	442.3	393.1
		K.SLGSDNAINVVHATVAALK									
		.L	3	1180.8	1161.2	530.7	507.0	1316.1	1185.6	565.9	521.6
		R.AVLEC#AGVHDILAK.S	2	513.4	412.5	376.0	307.5	559.1	492.4	389.0	355.9
		R.AVLEC*AGVHDILAK.S	2	513.4	412.5	376.0	306.9	559.1	492.4	389.0	355.9
		R.GLPIEDVAPAGMLK.A	2	981.7	1009.3	725.9	731.7	1011.0	959.6	669.8	679.8
		R.RGLPIEDVAPAGMLK.A	2	50.8	52.6	324.5	340.3	86.0	73.4	462.1	423.6
		R.VPLIGSTITHPVQGEAAAG									
		VVM*LR.P	3	111.2	131.6	81.8	90.9	44.8	49.5	65.2	81.8
		R.VPLIGSTITHPVQGEAAAG									
		VVM*LRPASPGTGTGVIAGGAA									
		R.A	4	621.5	638.4	251.5	272.8	594.8	657.0	220.3	269.5
		R.VPLIGSTITHPVQGEAAAG									
		VVMLR.P	3	686.5	673.6	632.1	657.8	386.6	391.0	406.6	445.5
		R.VPLIGSTITHPVQGEAAAG									
		VVMLRPASPGTGTGVIAGGAA									
		R.A	4	1901.2	1946.2	1035.3	1045.6	2272.3	2286.2	1164.6	1192.1
		R.VPLIGSTITHPVQGEAAAG									
		VVMLRPASPGTGTGVIAGGAA									
		R.A	5	714.5	696.7	333.9	308.1	829.1	776.0	390.8	369.9
MSMEG	MSMEG										
_1473	1470	R.GLINTVHHLVEVEEVGK	2	163.5	131.3	78.5	68.5	173.3	144.5	101.7	79.1
		R.GLINTVHHLVEVEEVGK	3	543.9	673.7	297.3	362.4	512.6	584.4	331.9	346.5
		R.GLINTVHHLVEVEEVGK	4	89.7	52.2	45.7	25.6	110.6	104.2	73.9	66.0
MSMEG	MSMEG										
_1474	1471	K.AFPQGGTVGVDELVAK.G	2	1110.1	1505.6	1165.5	1456.8	1159.1	1250.1	1431.8	1445.7
		K.AFPQGGTVGVDELVAK.G	3	64.2	57.2	180.1	190.2	53.3	52.8	152.3	159.8
		R.FRTEYQVVNVGDINK.A	2	64.5	63.9	326.0	345.0	108.2	89.4	377.9	342.6
		R.FRTEYQVVNVGDINK.A	3	107.6	121.5	39.7	41.9	185.3	180.3	77.6	71.8
		R.KNPVPMFEGGQM*PHM*									
		R.L	3	7.9	7.3	2.0	2.5	3.8	7.0	1.5	2.3

		R.TEYQVVNVGDINK.A	2	1368.0	1340.9	694.0	710.9	1064.7	1166.8	597.5	602.8
MSMEG	MSMEG	K.ADYADVAVAGTPGEVVR.									
_1475	1472	G	2	153.6	160.5	44.5	42.2	41.4	50.1	22.7	49.4
		R.LGVAVLVTSLHDPLQLAS									
		SITAVDR.L	3	61.7	54.4	26.5	23.5	2.1	3.2	45.8	28.2
MSMEG	MSMEG	R.VQLPAAAPGPVQELR.D	2	108.9	102.2	136.8	128.6	33.9	44.4	161.7	124.3
_1476	1473										
MSMEG	MSMEG	R.AVGIEALTMLADGK.F	2	20.2	23.8	13.3	7.5	8.7	10.0	15.8	15.1
_1479	1476	R.GVGQAVILASGLDSR.A	2	73.9	90.4	48.4	65.2	24.9	29.1	22.5	48.9
MSMEG	MSMEG	K.ALADLGALPTTDR.R	2	162.5	129.6	67.2	62.1	80.8	87.8	70.4	109.5
_1482	1479										
MSMEG	MSMEG	R.AAHWEHTVAVTEDGPR.I	3	5.5	3.5	1.9	1.8	10.7	7.7	3.8	3.5
_1485	1482										
		R.LTDVSHAIEVETHAAEK.R	3	30.2	41.1	10.7	9.0	38.9	35.3	20.5	20.2
		R.LTDVSHAIEVETHAAEK.R	4	45.5	52.0	7.0	7.4	56.6	46.3	5.6	6.1
		R.TSAELDAMAVAGALVASA									
		LR.A	2	11.3	12.1	9.2	11.8	10.9	11.1	20.8	22.2
MSMEG	MSMEG	R.LQVHVTSVTHAIR.R	3	3.3	3.3	3.7	4.3	3.5	3.1	3.6	3.7
_1492	1490										
MSMEG	MSMEG	K.ADYGPLVTEAALNR.V	2	114.4	133.4	94.4	150.0	108.2	129.3	105.5	119.4
_1498	1497	K.FIDLVNQNADELAR.L	2	168.7	170.8	146.8	165.7	195.7	172.2	188.6	165.9
MSMEG	MSMEG	R.FNETTPYNPSSPYSSSTK.A	2	7.5	7.0	3.3	1.8	6.1	8.0	1.3	2.6
_1512	1511										
MSMEG	MSMEG	R.YAIDPSTLQDELGWAPK.H	2	105.2	110.5	137.7	155.4	73.5	82.0	134.7	141.9
_1513	1512	K.LIDAVVAHGTAGDIAAR.L	2	55.0	52.8	188.6	166.2	63.6	76.0	1039.1	869.6
		K.LIDAVVAHGTAGDIAAR.L	3	163.7	169.0	231.2	226.1	182.4	188.9	217.6	225.5
		R.AVLGEAVFLAPEHK.V	3	84.2	74.2	95.9	90.0	111.2	105.0	119.5	115.6
		R.FVLGVGVGHPEHTGEYR.									
		K	2	58.4	66.0	26.2	21.4	58.5	72.8	21.8	26.9

		R.FVLGVGVGHPEHTGEYR.									
		K	3	47.9	55.3	76.2	80.6	55.5	63.2	78.4	86.2
		R.KPYDALVEYLDVLDAAK.V	2	41.4	41.5	116.1	117.3	58.9	51.0	166.9	156.1
		R.KPYDALVEYLDVLDAAK.V	3	46.8	46.9	68.4	65.5	54.4	59.0	77.8	75.6
MSMEG	MSMEG	K.DLTDDQVTVLR.D	2	187.9	137.3	100.1	70.1	155.4	181.5	93.1	98.6
_1521	1520	K.IEIGC*YQGLR.H	2	161.6	119.8	76.6	56.6	131.8	157.1	62.4	75.4
		R.KIEIGC#YQGLR.H	2	36.4	17.1	24.9	10.9	45.9	46.7	24.4	29.0
		R.LVGVDLPR.D	2	57.4	54.4	28.1	24.8	63.9	65.5	21.0	27.7
		R.M#EIALTYIYGIGR.T	2	252.2	266.5	150.8	142.7	200.6	202.6	124.6	117.2
		R.M*EIALTYIYGIGR.T	2	59.3	50.4	28.4	25.8	73.5	67.9	41.5	36.0
		R.MEIALTYIYGIGR.T	2	59.3	50.4	28.4	25.8	73.5	67.9	41.5	36.0
		R.SNEILAATGIDK.N	2	165.3	141.0	97.1	80.6	167.6	187.5	98.5	105.7
		R.TKDLTDDQVTVLR.D	2	4.4	4.2	7.9	5.3	8.9	7.6	11.7	9.4
MSMEG	MSMEG	K.STFNNTIVSITDPQGNVIA									
_1522	1521	WASSGHVGFK.G	3	223.8	223.3	107.5	100.3	229.7	248.6	96.0	94.3
		K.STPFAAQLAAENAAR.K	2	1680.1	1881.7	924.0	982.7	1775.2	1820.9	879.4	816.5
		K.STPFAAQLAAENAAR.K	3	176.9	189.3	64.6	75.3	196.0	198.1	60.5	55.8
		R.KSTPFAAQLAAENAAR.K	2	28.8	18.1	17.6	11.9	56.7	57.5	24.8	24.0
		R.KSTPFAAQLAAENAAR.K	3	87.5	52.9	72.1	61.4	148.2	164.8	70.6	83.2
		R.SLQAAGLEVGTISDVTTPQ									
		PHNGC*RPPK.R	3	474.5	0.0	303.7	0.0	590.5	525.7	283.0	254.3
MSMEG	MSMEG	K.SLNTLPFQIAR.E	2	990.5	941.2	515.4	495.1	992.6	1088.7	433.0	527.4
_1523	1522	R.AQIDVPLTEQLIVELYSK	2	362.2	320.5	289.0	243.3	350.7	308.3	267.7	221.9
		R.AQIDVPLTEQLIVELYSK	3	78.1	73.1	72.0	66.7	67.7	65.1	45.9	57.4
		R.ETAGERPIPSWLQVVGER									
		.Q	2	284.5	269.0	166.0	174.3	323.0	300.0	156.4	161.2
		R.ETAGERPIPSWLQVVGER									
		.Q	3	1069.2	1056.2	566.3	572.8	1115.5	1094.6	540.2	566.3
		R.LGVDLVGGDQSFEK.R	2	1540.1	1630.7	937.9	971.0	1341.5	1503.1	740.7	807.5
		R.LGVDLVGGDQSFEKR.P	3	220.2	212.5	118.1	115.9	362.9	331.8	193.8	175.2
		R.RLGVDLVGGDQSFEK.R	2	291.6	212.8	113.9	74.4	356.2	334.6	188.7	165.3

MSMEG _1524	MSMEG 1523	.M#LISQRPTLSEETVAENR. S	3	607.4	380.1	368.4	249.9	448.8	506.6	253.8	304.9
		.M*LISQRPTLSEETVAENR. S	3	604.8	373.0	369.5	251.4	435.9	494.6	254.1	306.1
		-.MLISQRPTLSEETVAENR.S	2	169.8	177.2	96.1	100.0	143.2	133.6	59.6	74.7
		-.MLISQRPTLSEETVAENR.S	3	2018.3	1731.5	1305.8	1150.7	1868.7	1906.2	1186.6	1320.4
		K.EDVTDIILNLK.G	2	666.3	606.3	435.3	378.8	584.4	519.6	464.4	364.3
		K.GLVVSSDDDEPVMTYLR.									
		K	2	851.3	794.5	563.1	575.9	551.3	563.4	354.1	359.7
		K.LIIDVETK.N	2	80.6	65.1	52.6	43.1	63.9	52.3	54.0	68.7
		R.DALASAGGTLVELFGLAR.									
		E	2	1652.3	1530.2	1198.7	1074.9	1591.1	1513.8	1298.7	1209.7
		R.DALASAGGTLVELFGLAR.									
		E	3	257.6	240.5	143.6	140.7	318.8	280.2	208.1	179.6
		R.EGVHTVGELVAR.T	2	99.9	68.9	177.9	210.2	108.2	79.8	69.6	58.6
		R.FVIEPLEPGFGYTLGNSLR									
		.R	2	734.9	773.0	488.0	518.6	844.9	818.9	622.1	609.4
		R.FVIEPLEPGFGYTLGNSLR									
		.R	3	97.2	119.5	63.7	72.9	134.2	127.9	71.6	82.2
		R.IDGVLHEFTTVPGVK.E	2	1693.9	1691.3	1630.6	1656.6	1364.8	1322.8	1828.0	1808.1
		R.IDGVLHEFTTVPGVK.E	3	595.4	538.1	344.7	336.9	546.9	486.2	356.8	316.2
		R.IPVDSIYSPVLK.V	2	1439.9	1417.4	1434.6	1413.9	1612.2	1494.7	1638.0	1507.8
		R.PTLSEETVAENR.S	2	17.3	15.4	9.3	10.0	8.7	6.5	2.1	3.3
		R.TLLSSIPGAAVTSIR.I	2	1680.9	1508.0	1156.1	1060.0	1533.9	1488.6	1209.5	1112.3
		R.TLLSSIPGAAVTSIR.I	3	91.8	78.0	40.1	36.7	76.2	73.4	37.1	30.5
MSMEG _1525	MSMEG 1524	K.DVVTHTLFAEIGPFYADR.N	3	26.9	27.8	7.9	8.8	26.1	23.4	3.2	4.5
		K.GDNAPMAVIELVR.E	2	42.0	42.1	26.0	29.9	33.5	34.6	11.6	19.9
		R.DKDVVTHTLFAEIGPFYAD									
		R.N	4	84.9	95.8	23.9	28.6	86.0	83.3	19.3	27.7
		R.KGDNAPM*AVIELVR.E	2	122.5	122.0	83.9	107.6	177.6	197.9	98.2	108.7

		R.KGDNAPM*AVIELVR.E	3	71.3	60.4	8.7	4.8	35.2	63.0	1.7	11.2
		R.KGDNAPMAVIELVR.E	2	357.5	404.0	208.8	220.3	421.4	408.9	266.4	254.5
		R.KGDNAPMAVIELVR.E	3	326.3	307.7	153.9	131.5	415.8	380.7	193.6	166.4
		R.LGGSSSHQSALLANLATS									
		LFEHGR.I	3	387.6	394.5	238.3	237.5	478.5	444.3	304.1	278.7
		R.LGGSSSHQSALLANLATS									
		LFEHGR.I	4	511.5	539.5	262.6	258.3	629.4	613.1	364.4	331.2
MSMEG	MSMEG										
_1528	1527	K.LGLPLTASPVYGSR.A	2	81.0	86.7	60.2	67.9	64.8	71.0	51.4	51.0
		R.AIDLC#NAGDPVC#GSGD									
		SVPAHR.A	3	58.1	66.9	42.2	46.9	48.4	50.5	45.1	42.0
		R.AIDLC*NAGDPVC*GSGDS									
		VPAHR.A	3	57.9	66.7	41.5	46.5	48.3	50.4	44.4	40.7
		R.IGNAFVQALRG	2	23.5	19.2	23.7	23.1	23.0	26.5	26.6	29.7
MSMEG	MSMEG	R.QELLRAANVGSAAEYTR.									
_1536	1535	T	3	45.2	40.4	25.0	27.3	35.9	36.8	29.8	31.2
MSMEG	MSMEG	K.HKPTFTPNVDDGDFVIVIN									
_1556	1553	ADK.I	3	1094.4	844.8	661.5	522.4	1137.0	1136.9	641.1	535.9
		K.VYAGPDHPHAAQQPIPFEI									
		K.Q	3	986.0	1141.1	508.5	558.5	1067.4	1035.9	507.4	457.1
		R.LASAAATLLRG	2	36.8	36.7	10.2	9.1	39.6	39.2	10.6	9.6
		R.SWYVIDASDVVLGR.L	2	414.7	411.3	246.6	230.5	401.4	454.6	238.7	237.9
		R.SWYVIDASDVVLGR.L	3	29.2	16.0	10.0	3.7	25.4	29.7	2.3	7.6
		R.VVENAIIGM#LPHNK.L	3	229.6	251.1	81.9	90.6	188.6	236.6	62.3	71.2
		R.VVENAIIGM*LPHNK.L	2	35.4	37.8	37.8	41.0	37.1	31.6	42.3	41.1
		R.VVENAIIGMLPHNK.L	2	35.4	37.8	171.3	150.2	37.1	31.6	129.0	142.4
		R.VVENAIIGMLPHNK.L	3	119.1	98.1	50.1	47.9	127.8	125.3	53.5	50.4
MSMEG	MSMEG	K.APLVTVDVDQFDIYAHLD									
_1557	1554	GGGPSGQAGALR.L	4	97.3	82.8	83.2	77.0	218.6	210.1	132.1	132.5
		R.ALILVQPEDRPALK.K	2	436.4	466.2	303.0	301.0	491.0	436.3	333.1	304.5
		R.ALILVQPEDRPALK.K	3	1570.7	1707.8	518.8	547.3	1529.1	1469.8	491.6	427.7
		R.ALILVQPEDRPALKK.A	2	5.2	7.3	0.1	0.2	16.9	12.4	0.3	0.2
		R.ALILVQPEDRPALKK.A	4	107.5	111.3	28.8	30.7	260.0	234.5	92.9	85.2
		R.EPVIIDRPIQTVGR.R	2	691.7	67.7	408.0	81.1	792.8	686.7	472.2	416.6
		R.LVPGTGQFNLDGR.T	2	2357.3	3238.7	1596.4	2000.3	2565.0	2943.1	1975.6	2015.3
		R.VDQFDIYAHLDGGPSG									
		QAGALR.L	2	118.1	96.9	37.5	31.3	97.6	88.0	29.6	23.4

		R.VDQFDIYAHLDGGPSG									
MSMEG	MSMEG	QAGALR.L	3	1629.2	1683.2	801.9	764.8	1602.6	1583.5	734.7	738.5
_1567	1564	R.ALLTGFLLATLAGDK.T	2	14.0	11.7	25.2	19.6	30.6	27.0	24.8	20.4
		R.IPGLVLTDPGDR.M	2	48.0	50.4	142.9	137.2	72.6	73.5	126.9	137.9
MSMEG	MSMEG	K.YGLTYPGVGFVVWR.N	2	62.4	61.0	115.3	108.0	83.5	73.1	162.1	140.9
_1574	1571	R.AGYTQVMQC#LSQTAR.									
		W	2	97.1	116.6	119.9	123.6	50.1	56.2	54.3	77.0
		R.ALKDDIITVLGQLDALKPR.									
		G	3	135.6	131.6	187.1	170.9	113.0	95.2	224.7	167.5
		R.ALKDDIITVLGQLDALKPR.									
		G	4	29.3	21.0	22.8	20.7	30.3	24.4	31.8	30.5
		R.GQFDQLQPFAH	2	6.9	3.2	13.8	18.6	6.7	11.9	36.9	39.4
		R.LNLATFVTTWMDPEAEK.									
		L	2	95.5	85.9	103.9	98.7	47.9	49.0	78.7	73.8
		R.PGNQVVGQYYNFLR.L	2	157.3	150.7	176.9	170.7	99.0	94.1	159.3	152.1
MSMEG	MSMEG	K.AGDRVVLGPLGAGK.T	2	49.4	56.1	49.5	60.2	22.1	35.2	24.9	39.6
MSMEG	MSMEG	R.YAELVDAGDFDGVGQLL									
_1581	1579	GR.G	2	12.3	13.4	6.4	9.9	9.7	10.5	4.3	5.4
MSMEG	MSMEG	K.EKPQEGETVAVGPGR.W	3	4.0	4.0	1.6	1.4	5.2	5.4	2.1	2.4
_1582	1580	K.ILVQANEAEETTASGLVIP									
		DTAK.E	2	525.9	558.9	315.5	349.8	633.6	585.3	393.5	348.8
		K.ILVQANEAEETTASGLVIP									
		DTAK.E	3	758.6	581.2	528.2	402.8	933.4	883.3	631.3	597.5
		K.RIPLDVAEGDTVIYSK.Y	2	478.0	517.3	594.9	545.1	852.5	751.5	887.4	703.5
		K.RIPLDVAEGDTVIYSK.Y	3	606.9	654.4	420.6	426.4	1044.3	1061.3	688.2	659.0
		K.YNGEEYLILSAR.D	2	404.7	378.5	273.7	255.7	400.1	443.7	304.5	304.0
		K.YNGEEYLILSAR.D	3	64.4	42.7	17.3	10.4	76.2	57.3	24.4	17.8
		R.IPLDVAEGDTVIYSK.Y	2	1355.5	2171.0	865.1	1374.0	1154.0	1329.5	773.0	831.8
MSMEG	MSMEG	K.AAADAVSEALLASATPVDD									
_1583	1581	KK.A	2	108.3	104.7	81.8	68.0	76.7	77.3	48.5	53.4
		K.AAADAVSEALLASATPVDD									
		KK.A	3	454.1	441.8	239.8	220.4	474.2	438.6	262.1	252.5

		K.AAVEEGIVTGGGAALVQA									
		R.S	2	323.6	303.0	182.0	200.7	255.8	254.7	112.1	174.7
		K.AFLDDLAIVTGGQVVNPD									
		VGLLLR.E	3	164.7	221.3	125.2	184.0	217.0	208.0	78.6	120.7
		K.ISSLPDLLPLLEK.V	2	597.0	558.9	344.4	336.1	473.5	404.1	311.4	244.9
		K.SFGGPQVTNDGVTIAR.E	2	867.8	721.6	562.6	497.3	915.4	921.9	499.0	552.2
		K.TNDVAGDGTTATVLAQA									
		LVR.A	2	149.3	154.5	177.6	182.0	66.5	73.0	64.3	57.0
		K.TNDVAGDGTTATVLAQA									
		LVR.A	3	307.0	360.1	231.9	259.1	374.6	335.8	213.1	203.1
		R.DEQVGELVGEAMTK.V	2	283.4	327.3	406.0	462.6	172.0	204.7	222.9	245.8
		R.DKISSLPDLLPLLEK.V	2	61.9	75.6	44.2	64.5	107.5	92.5	50.7	52.3
		R.EIDLEDPYENLGAQLVK.S	2	602.9	586.1	932.6	839.3	480.2	477.3	1015.0	940.9
		R.EVGLEVLGSAR.R	2	60.0	54.7	114.6	96.5	58.3	50.1	126.9	109.6
		R.M*ILTTETAVVDKPADEDE									
		HGHGHHGHAAH	5	43.2	43.0	14.3	18.2	15.1	12.6	0.4	3.5
		R.NVAAGANPIALGSGISK.A	2	658.9	542.2	775.7	738.0	794.5	796.9	718.3	726.1
MSMEG	MSMEG	K.EGVSAEAALGLLR.R	2	82.8	82.0	23.7	24.0	77.7	77.8	39.4	34.0
_1602	1600	R.AAAAALVEAGADAVK.V	2	170.8	133.1	330.5	247.9	180.8	162.5	441.3	405.5
		R.GPLGTVIHQLTGGLR.A	3	29.6	22.3	2.6	2.4	15.0	18.6	0.9	2.4
		R.ISGLPVVDDTGEVGIIITN									
		R.D	2	206.0	196.7	105.9	113.8	164.4	159.5	304.1	230.4
		R.ISGLPVVDDTGEVGIIITN									
		R.D	3	107.5	114.3	68.3	63.6	98.4	96.9	67.5	65.8
		R.NLPVAEQAGQVETVK.R	2	16.1	11.2	50.1	56.4	5.7	3.0	23.6	32.7
MSMEG	MSMEG	K.TFISELDVPVVAGGVLDH									
_1603	1601	R.T	3	204.0	173.4	196.9	189.0	197.2	154.4	189.3	168.5
		R.FEIPVIAHPTDALVSPEFAI									
		EMGR.L	3	317.9	313.4	279.4	253.1	159.3	211.7	177.6	198.6
		R.LLQQQLHAAPLDPLLLGAA									
		VAR.I	3	253.5	243.0	466.0	406.1	256.5	234.9	904.3	605.3
		R.YVHVVLADGDIHSSGDLAK.									
		A	3	60.7	57.2	160.6	180.6	35.3	44.2	33.7	53.7

		R.YVHVVLADGDIHSSGDLAK.									
MSMEG	MSMEG	A	4	71.9	65.9	54.0	56.5	57.6	53.2	72.9	79.6
_1605	1603	R.DPDTAARLRAEDDAVDAE									
MSMEG	MSMEG	HR.H	3	0.1	0.1	0.4	0.3	4.5	5.4	0.7	0.7
_1610	1608	R.FLEALTGVTNPEGK.R	2	758.8	698.5	627.5	580.9	668.5	643.1	656.5	659.0
		R.LAGVQYHPEVLHSPHGQ									
		QVLSR.F	3	72.8	47.7	142.0	158.4	46.5	45.5	480.1	547.9
		R.LAGVQYHPEVLHSPHGQ									
		QVLSR.F	4	44.8	49.1	108.8	109.9	9.6	22.9	31.4	54.0
		R.LAGVQYHPEVLHSPHGQ									
		QVLSR.F	5	343.1	268.2	251.7	200.6	279.2	272.8	197.2	228.0
		R.VVLDITSKPPGTIEWE	2	12.6	15.4	166.5	175.6	1.2	6.6	79.0	92.9
		R.VYSEVVPHTAGVEEIK.A	2	18.7	15.7	77.8	67.0	5.4	6.9	44.1	55.9
		R.VYSEVVPHTAGVEEIK.A	3	71.5	74.3	191.1	187.9	30.2	37.8	94.0	129.6
MSMEG	MSMEG	R.TVLDDVSLDVRR.G	2	76.4	83.8	2.0	1.0	80.4	84.7	1.0	1.9
MSMEG	MSMEG	R.ETIAALGGGLPGADHGEHE									
_1634	1633	GR.H	3	9.5	0.0	0.4	0.0	14.8	15.1	0.5	1.3
		R.SALTEAASAQRPSPAVALA									
		ALSGVR.Q	3	1129.1	1204.5	728.1	785.6	1591.1	1632.4	783.1	756.9
		R.YDSLMAHAAAAPGSSLG									
		QQIYVTR.V	3	214.1	240.6	233.6	244.7	305.5	312.1	196.5	200.1
MSMEG	MSMEG	K.APVLLIPC#LEGR.P	2	35.1	34.8	90.2	87.1	0.6	3.2	101.3	91.4
_1635	1634	K.QAAEVVGIPFDK.Y	2	53.6	46.8	15.4	10.0	21.6	19.0	14.2	10.5
		K.RLPAEQFAHWDTW	2	176.5	143.7	71.7	54.9	81.4	97.7	69.2	65.6
		K.YSQAGLFPIAYTIGTDFK.K	2	41.9	46.6	17.4	22.5	62.1	60.4	54.2	58.2
		R.GLGSAWTTLHLLGEGEK.									
		Q	2	547.8	539.3	385.8	360.5	289.0	254.9	398.5	396.6
		R.GLGSAWTTLHLLGEGEK.									
		Q	3	599.1	517.9	280.0	247.8	304.4	271.2	288.4	263.5
		R.LPAEQFAHWDTW	2	119.7	127.8	67.2	73.3	54.7	59.4	58.5	67.9
		R.SNAIPYLEQEAAER.G	2	1218.8	1310.0	585.3	558.1	825.3	868.9	610.0	599.2

		R.SNAIPYLEQEAAER.G	3	71.8	63.5	13.6	18.7	33.0	35.4	13.6	11.5
MSMEG _1642	MSMEG 1641	K.FEGHDVHAEYASLR.S	3	4.7	3.6	6.8	4.0	4.4	4.3	4.8	4.2
		K.FEGHDVHAEYASLR.S	4	5.0	3.2	5.0	3.1	2.9	3.7	2.3	3.5
		K.TL LDNISIDAR.P	2	20.3	24.5	54.7	61.6	17.0	18.5	38.2	33.2
		R.ATDNDIVIPDVLASR.H	2	11.4	10.7	19.0	19.6	13.1	12.5	18.3	19.9
		R.IGLDQLSWITPAR.W	2	13.6	12.8	11.2	11.7	12.3	14.4	9.0	14.6
		R.TPEAPPASASSEAPADLG									
		APAK.T	2	99.1	96.9	29.8	26.8	104.2	96.5	31.2	28.4
		R.TPEAPPASASSEAPADLG									
		APAK.T	3	26.2	31.3	9.0	11.5	22.2	30.9	7.6	14.1
		R.TPPPAPANSSQAPTTMGP									
		AAAPR.G	3	6.1	9.8	7.2	8.6	4.0	7.1	3.7	6.6
		R.YPSAPQHGYPNGPQTGY									
		PSGPQR.G	3	88.9	90.7	66.6	69.2	74.8	93.4	58.3	77.3
MSMEG _1647	MSMEG 1645	K.LTGDVAPDVWEVAGHVS									
		PNPGVGPLTR.A	3	283.0	293.5	295.4	289.6	256.9	264.1	302.1	313.7
		R.AFLLTNVVVEAEESK.L	2	194.3	198.3	348.8	344.7	159.8	154.0	311.0	326.6
		R.IDPAKDADGLHPTNLGR.L	3	2.6	1.8	6.5	3.6	4.6	6.6	11.1	11.1
		R.RFDVPIAGAHVVVIGR.G	3	55.4	55.4	27.9	33.7	35.2	44.5	32.5	30.3
		R.RSENATVTL#HTGTR.D	3	1.3	0.7	1.2	0.4	2.1	1.2	2.5	1.1
		R.RSENATVTL*HTGTR.D	3	1.3	0.7	1.2	0.4	2.1	1.2	2.5	1.1
		R.TPGLGTVLVGDDPGSQA									
		YVR.G	2	72.8	90.0	99.8	105.6	66.3	76.2	91.6	104.8
MSMEG _1650	MSMEG 1649	R.GRPSYPPEAIDWLPPDG									
		HDVLDLGAGTGK.L	3	6.0	14.2	31.5	29.5	5.5	7.1	35.6	38.1
MSMEG _1652	MSMEG 1651	K.AFVNALTSHVANIGDV									
		R.S	3	168.6	153.6	344.3	333.1	230.4	210.7	274.5	255.4
		K.FPGFTEPDPSYHGVFAE									
		LGAPAYALK.A	3	996.2	1051.8	573.9	594.0	842.4	982.9	591.4	667.6
		K.LGIETTFVENPDDLESWR.									
		A	2	563.7	575.9	232.8	242.5	578.5	578.6	316.4	302.0
		K.LGIETTFVENPDDLESWR.									
		A	3	25.5	31.6	5.2	5.2	25.7	26.1	3.7	4.6
		R.DLGSAAAPFNAFLIAQGLE									
		TLSLR.V	3	114.1	133.2	59.1	76.5	114.0	155.5	70.2	96.5

		R.IGNPTTDVVEQR.I	2	6.7	5.4	8.4	8.1	4.5	7.1	4.0	3.8
		R.LAVGLEGIDIIADLEQGF									
		AAAR.P	3	26.2	35.3	10.8	16.9	6.7	14.3	3.0	6.9
		R.LYGGTYNLLHYTLPK.L	2	316.5	317.9	153.5	176.3	286.8	264.5	171.3	151.1
MSMEG	MSMEG	K.ALAEQEEAIVSELNSVQG									
_1654	1652	K.T	2	1043.0	1097.2	649.3	642.1	723.6	821.9	580.4	708.0
		K.ALAEQEEAIVSELNSVQG									
		K.T	3	450.1	554.7	250.8	309.2	407.0	367.3	362.1	294.9
		K.ALIAFYEEQIEDAYK.T	2	1110.6	1127.3	707.1	669.1	811.6	820.7	746.5	721.9
		K.ALIAFYEEQIEDAYK.T	3	63.6	85.9	21.1	31.2	44.3	45.2	22.8	29.2
		K.FAAAGIDVK.T	2	96.9	69.8	42.7	30.4	61.6	67.8	38.7	46.7
		K.GISNFHSPSDVIVDASM*P									
		AM*IR.L	3	227.1	228.1	56.9	75.9	99.2	141.6	34.8	54.3
		K.GISNFHSPSDVIVDASMPA									
		MIR.L	3	710.8	778.0	407.7	419.7	509.6	379.6	417.3	317.5
		K.GYNVPDYPANPK.T	2	40.1	32.1	39.5	34.7	25.9	22.8	33.6	38.4
		K.HVHQLVEENHLR.W	2	3.0	0.2	0.6	0.2	3.4	0.1	2.1	0.4
		K.HVHQLVEENHLR.W	3	27.2	7.8	11.5	2.3	17.1	4.9	9.5	2.2
		K.ILGSAVNPNVL.R.E	2	295.6	217.2	110.7	79.4	308.0	123.8	171.4	63.6
		K.IQIMPQVWAMR.Y	2	393.8	387.2	252.2	226.6	325.4	253.4	304.2	219.8
		K.KALIAFYEEQIEDAYK.T	2	71.5	75.7	107.8	91.9	75.6	82.4	213.6	168.2
		K.KALIAFYEEQIEDAYK.T	3	33.0	32.1	14.9	17.1	39.7	35.0	38.0	20.1
		K.LDAGDIIDSM*YMSK.K	2	315.8	381.7	45.4	62.6	215.7	249.9	36.4	57.6
		K.LDAGDIIDSMYMSK.K	2	56.9	63.6	30.9	32.6	46.0	30.4	29.4	25.1
		K.LDAGDIIDSMYMSK.K	2	572.9	553.4	340.1	319.3	407.4	328.7	359.4	269.8
		K.LDAGDIIDSMYMSK.K	3	14.1	18.6	1.3	2.1	5.0	6.5	0.7	0.8
		K.LFDELGVNVNNGLSDLYD									
		K.I	2	274.1	306.0	154.0	153.7	118.5	161.3	62.3	118.1
		K.LPNISASVPQLLAAIK.E	2	1103.9	992.2	778.6	584.0	1386.9	771.0	1285.9	674.2
		K.LPNISASVPQLLAAIK.E	3	58.0	83.6	9.5	30.2	61.5	53.8	33.7	31.3
		K.MLSIVPLMAGGGLYETGA									
		GGSAPK.H	2	197.5	182.0	111.0	112.1	198.1	208.9	132.9	162.9
		K.SGEEIVLKPEVK.L	3	39.4	30.8	2.4	2.8	26.8	27.3	3.3	5.7
		K.TGVMFSLHVKA	2	47.9	46.2	5.2	5.4	41.6	38.2	11.3	8.7
		K.THGQFDPTTM*GTVPNVG									
		LM*AQK.A	3	160.6	178.8	39.7	40.1	89.4	93.6	16.8	35.4

		K.THGQFDPTTM*GTVPNVG									
		LMAQK.A	3	160.6	178.8	54.9	54.7	95.3	114.0	39.2	48.4
		K.THGQFDPTTMGTVPNVG									
		LMAQK.A	3	786.4	816.2	438.2	420.9	411.1	478.6	327.1	382.0
		K.TSDISVAAR.I	2	0.2	0.1	0.0	0.0	0.1	0.1	0.0	0.0
		K.TVDIGGYYPDPEK.T	2	1131.8	1119.6	773.7	746.0	894.6	883.7	909.4	800.8
		K.VSHPIVFGHAVK.V	3	5.2	3.4	0.2	0.2	4.5	3.3	0.6	0.6
		R.DYLTDLFPILELGTSAK.M	2	925.7	1188.2	614.1	723.7	751.0	973.1	716.6	894.6
		R.DYLTDLFPILELGTSAK.M	3	54.7	65.7	27.8	36.7	46.1	58.9	32.9	49.6
		R.ILAEFGDHLTEEQR.V	2	457.9	418.7	273.2	264.4	336.1	326.1	278.5	253.7
		R.ILAEFGDHLTEEQR.V	3	781.9	750.1	385.9	373.5	511.4	520.1	336.7	377.1
		R.KFAEAAGIDVK.T	2	27.4	17.2	8.6	6.6	21.2	21.7	10.0	13.1
		R.LSGM*PVVFWLDTERPHE									
		VELR.K	4	112.0	125.9	29.0	34.0	103.5	87.4	28.0	36.2
		R.LSGMPVVFWLDTERPHE									
		VELR.K	3	304.2	335.3	154.0	147.3	218.0	273.4	125.7	218.0
		R.LSGMPVVFWLDTERPHE									
		VELR.K	4	397.0	450.3	181.8	220.4	221.7	407.1	138.6	287.3
		R.MYQEMINFC#K.T	2	196.7	192.9	112.2	108.5	160.1	144.9	119.1	125.8
		R.MYQEMINFC*K.T	2	196.7	192.9	112.2	108.5	160.1	144.9	119.1	125.8
		R.VPDNLGELGALTQDPSAN									
		IIK.L	2	577.9	621.4	273.1	312.6	411.1	390.6	337.3	307.1
		R.VPDNLGELGALTQDPSAN									
		IIK.L	3	615.6	810.0	406.1	497.9	505.1	463.5	551.5	392.9
		R.WDSLGEFLALGASLEDM*									
		GNK.T	2	36.2	42.2	8.1	7.2	50.5	26.3	5.9	10.6
		R.WDSLGEFLALGASLEDM									
		GNK.T	2	90.2	96.8	43.8	47.4	58.4	105.5	45.0	78.6
MSMEG	MSMEG										
_1655	1653	R.GPFLLDVAHLADDIER.R	3	15.5	14.2	0.9	1.6	27.3	22.9	1.1	2.1
		R.VTELITEFVDR.H	2	21.0	22.1	5.2	4.0	35.4	29.0	4.3	7.4
MSMEG	MSMEG										
_1656	1654	R.IDYHLVTPGLAGR.L	2	21.7	18.1	23.2	30.0	31.2	22.0	18.0	21.4
MSMEG	MSMEG										
_1662	1660	K.APFEPLTPGGFR.A	2	78.9	55.1	72.4	55.8	112.1	103.1	90.4	95.6

		K.LYDLPIVGDVR.G	2	51.2	56.1	81.1	84.7	68.3	62.1	71.0	79.2
		R.GEGFFYGIELVK.D	2	22.4	19.0	32.9	53.2	33.4	32.7	30.1	45.4
		R.GFLTPALWEAGLYC#R.A	2	146.9	109.9	88.7	74.3	238.7	238.0	144.0	129.7
MSMEG	MSMEG	R.VFFTTGGGEAVESAWK.L	2	97.3	83.6	238.3	188.0	145.3	117.2	219.5	231.1
_1663	1661	R.ALPGVISTETLVYLK.L	2	30.5	27.0	66.0	64.0	28.8	26.4	40.1	42.0
		R.PGAFLQDELSK.A	2	97.7	103.1	6.6	8.8	98.4	81.1	7.0	8.2
MSMEG	MSMEG	K.LADEHAEQFVAEEVSQTG									
_1665	1662	KPVR.L	3	291.2	284.9	167.1	209.1	234.4	207.1	248.1	227.8
MSMEG	MSMEG	K.DLVVNMEPFFDAYR.A	2	104.6	114.6	90.8	102.3	174.9	167.5	90.5	86.4
		R.FNPENPDAAGWQSFR.V	2	398.1	430.1	299.3	298.2	663.8	713.1	319.5	314.0
		R.GIQVTQAIQEVK.R	2	209.4	184.4	261.3	252.5	378.4	447.2	217.1	268.4
		R.LDILNEVDGVWR.C	2	107.0	96.4	148.2	148.0	230.5	223.3	156.7	159.8
		R.LLNLLHYVK.W	2	35.6	37.2	26.1	33.3	80.0	79.4	27.1	31.8
MSMEG	MSMEG	K.EAIDAVLDLEK.M	2	200.0	201.4	117.7	94.8	307.2	259.6	104.7	77.9
_1670	1667	K.LPDITEFAR.T	2	142.4	124.0	112.6	104.1	274.7	260.9	88.2	79.1
		K.TTSNAHTLTGDGLGIVFR.									
		K	2	135.0	156.8	202.9	246.0	207.2	221.2	185.2	207.9
		K.TTSNAHTLTGDGLGIVFR.									
		K	3	148.7	141.5	171.3	168.9	273.4	249.8	180.2	153.8
		R.GALQQSMDNNAAVFRT	2	90.8	78.9	171.6	144.3	110.5	92.8	97.4	96.2
		R.LGTNSLLDINVFGR.R	2	141.0	125.7	217.5	193.1	211.6	141.1	202.0	129.1
		R.SMVLEVLEGR.G	2	71.6	55.3	113.8	94.8	127.7	98.7	97.1	99.9
		R.YAPTIVDLAPR.D	2	115.2	103.1	171.3	154.1	167.5	134.4	101.1	110.0
MSMEG	MSMEG	R.IDFNYVAER.W	2	9.2	5.8	5.1	2.1	19.8	23.3	4.2	7.2
MSMEG	MSMEG	R.VSPQAYNEVIETYK.T	2	230.3	264.8	290.3	319.5	397.5	393.6	263.5	239.4
MSMEG	MSMEG	R.IVDDISETPDGTQQLGR.L	2	210.8	169.8	127.0	80.6	96.8	134.5	137.7	162.4
_1676	1673	R.LAIIDEVIKPR.Y	2	25.9	24.9	9.0	10.0	1.0	0.9	5.4	5.8

MSMEG	MSMEG	R.GVNAADAFTIAQVAIGLLR									
_1679	1676	.Q	2	23.5	24.7	165.0	176.9	76.7	92.9	502.1	477.3
		R.GVNAADAFTIAQVAIGLLR									
		.Q	3	7.3	5.9	35.7	34.2	38.3	41.9	53.1	55.6
		R.VASTLAEGGFDVTER.Y	2	130.8	153.8	275.4	307.3	272.2	229.6	231.4	250.7
MSMEG	MSMEG	R.AALAAGGEAGPVR.S	2	0.2	0.2	4.9	3.2	4.9	3.2	7.3	5.4
_1680	1677	R.SAGM#IVVEDVSWPVTDL									
		R.V	2	28.1	32.4	50.4	58.5	60.2	61.3	44.2	38.9
		R.SAGM*IVVEDVSWPVTDL									
		R.V	2	35.7	41.3	69.6	80.3	108.3	106.5	59.0	54.1
		R.SAGMIVVEDVSWPVTDLR									
		.V	2	155.6	158.2	469.4	465.4	664.1	621.8	459.9	431.5
		R.VDFADDPIGDLAALWQV									
		WQPQKK.D	3	8.2	11.2	24.0	30.4	47.7	71.0	33.9	61.2
MSMEG	MSMEG	K.AM#SNIAM#LLEEAGSSLR									
_1681	1678	.D	2	26.1	27.7	99.0	114.4	66.2	66.0	53.3	52.0
		K.AM#SNIAM#LLEEAGSSLR									
		.D	3	7.3	0.0	33.1	0.0	21.1	24.5	15.2	16.5
		K.AM#SNIAMLLEEAGSSLR.									
		D	2	8.9	9.7	41.6	44.8	21.9	20.9	20.8	20.6
		K.AM#SNIAMLLEEAGSSLR.									
		D	3	2.6	1.8	15.4	13.9	7.8	8.4	4.6	6.8
		K.AM*SNIAM*LLEEAGSSLR.									
		D	2	8.7	9.7	41.6	44.8	21.8	20.9	20.8	20.6
		K.AM*SNIAM*LLEEAGSSLR.									
		D	3	2.7	1.8	22.3	21.3	9.4	10.2	13.0	14.1
		K.AM*SNIAMLLEEAGSSLR.									
		D	2	8.7	9.7	41.6	44.8	21.8	20.9	20.8	20.6
		K.AM*SNIAMLLEEAGSSLR.									
		D	3	2.7	1.8	22.3	21.3	9.4	10.2	13.0	14.1
		K.AMSNIAM#LLEEAGSSLR.									
		D	2	10.8	14.6	55.0	69.6	29.9	30.7	26.8	26.6
		K.AMSNIAM#LLEEAGSSLR.									
		D	3	5.5	1.8	29.6	13.9	16.9	17.6	13.3	15.1
		K.AMSNIAM*LLEEAGSSLR.									
		D	2	10.8	14.6	55.0	69.6	29.8	30.7	26.8	26.6

K.AMSNIAM*LLEAGSSLR.														
MSMEG		MSMEG		D	3	5.6	1.8	36.6	21.3	18.4	19.4	21.6	22.4	
		K.AMSNIAMLLEEAGSSLR.D		2	34.2	51.8	167.6	256.4	83.2	88.7	96.1	93.9		
		K.AMSNIAMLLEEAGSSLR.D		3	26.6	21.8	152.0	125.0	64.7	67.6	87.4	84.4		
		K.DTYPEQNLNDLC#QAVV		AGGVVYLR.G	3	2.8	3.1	17.5	25.0	12.1	27.9	16.6	18.7	
		K.GVFPVSTGLVVEALAR.P		2	58.7	53.9	259.5	245.5	134.3	130.5	147.0	142.0		
		K.GVFPVSTGLVVEALAR.P		3	1.6	0.5	9.5	5.3	4.4	6.2	1.9	2.2		
MSMEG _1682	MSMEG _1679	K.VTVYLTDIR.Y		2	184.8	163.0	799.9	683.8	647.0	710.3	718.6	719.2		
		R.ESVGIGDVAAQTEK.A		2	38.8	36.5	183.0	170.7	157.4	169.7	184.1	181.7		
		R.GQIQQDLETR.E		2	0.1	0.0	2.2	2.5	1.3	1.3	3.3	3.2		
		K.IHGRPGFHAETSAGTIDAR		.Y	3	0.1	1.6	3.1	2.4	12.6	8.7	0.9	1.5	
		K.IHGRPGFHAETSAGTIDAR		.Y	4	0.0	0.0	0.0	0.0	6.6	5.5	0.0	0.1	
		R.GAEHVTIAVSGAHGGHTV		DFR.S	2	1.5	0.8	3.1	2.9	41.3	32.8	2.3	3.5	
		R.GAEHVTIAVSGAHGGHTV		DFR.S	3	67.8	43.6	27.4	28.5	502.1	448.5	36.3	47.8	
		R.GAEHVTIAVSGAHGGHTV		DFR.S	4	112.6	106.6	58.9	52.2	738.4	838.1	40.1	60.0	
		R.GAEHVTIAVSGAHGGHTV		DFR.S	5	70.6	48.9	26.5	17.3	596.0	594.4	23.0	25.2	
		R.GSSFLWGVWHDAK.Y		2	344.0	388.0	7.5	7.0	162.4	166.1	10.0	6.2		
MSMEG _1683	MSMEG _1680	R.PGFHAETSAGTIDAR.Y		2	3.4	2.2	4.9	5.7	44.0	28.7	1.3	1.8		
		R.PGFHAETSAGTIDAR.Y		3	25.5	21.0	12.2	12.5	153.5	143.1	10.9	11.5		
		R.RGSSFLWGVWHDAK.Y		3	7.2	13.2	12.4	7.5	58.8	55.4	4.6	5.4		
		R.SLAASGITLLGR.A		2	13.4	6.8	58.2	52.2	407.1	355.0	55.9	54.9		
		K.GVYDLESIFR.F		2	0.0	0.0	34.4	43.3	0.8	0.5	37.1	31.7		
MSMEG		MSMEG		R.LANPPLLVPVLR.A										
MSMEG _1694		1690		2	20.9	19.2	68.5	67.6	31.8	27.0	35.1	38.6		

		R.LITATVDEGLNEIAYIVPGL									
MSMEG	MSMEG	GDAGDR.Q	3	18.6	19.3	9.9	10.4	17.8	28.1	6.7	11.1
_1696	1692	R.ENLSELEFNLLMLVAPVLR									
		.K	2	176.9	182.5	177.8	161.8	186.4	190.3	224.5	207.6
MSMEG	MSMEG	R.IHAYEGHDLAHVVHPVR.T	3	3.8	2.6	18.0	14.4	4.6	4.0	13.2	16.2
		R.IHAYEGHDLAHVVHPVR.T	4	17.9	19.7	12.9	13.2	17.0	18.9	11.9	17.8
MSMEG	MSMEG	K.PLPIVTGQDAELASVK.S	2	3.3	3.1	218.8	192.2	1.3	0.7	200.7	250.7
_1704	1700	K.SIVAGEQTQTVFK.D	2	1.9	3.6	237.5	233.5	3.4	4.2	205.3	224.1
		K.VGVLQANYIVDTLGVADG									
		K.G	2	28.7	31.5	251.8	286.0	19.3	26.0	259.7	243.9
		K.VVPSYLLDPVSVDK.S	2	148.6	149.6	380.6	382.3	143.8	114.7	365.7	357.4
MSMEG	MSMEG	R.TGWDAVLQETK.N	2	1.3	5.4	19.7	16.2	2.8	6.0	13.6	12.5
MSMEG	MSMEG	R.AFLAELNPGFASFVEDK.I	2	18.2	24.0	28.7	32.7	19.4	25.9	14.8	18.1
MSMEG	MSMEG	K.EDEEALDRWEGAELGIHK									
_1734	1730	.K	3	8.0	0.0	10.7	0.0	12.2	10.4	14.7	15.0
		K.VFVVLYDMTK.E	2	14.7	14.2	5.3	5.4	16.5	16.9	0.9	2.1
		R.LTFFGEDIGWEGALATVV									
		EDPLSK.V	3	16.8	0.0	23.6	0.0	16.4	22.2	19.9	25.2
		R.YIGVMADAAEIAGAPPEYV									
		HDLR.T	3	51.8	42.4	75.4	51.3	38.0	36.3	48.0	50.5
MSMEG	MSMEG	R.DQILPHEDSDAAVLEQV									
_1735	1731	FAQR.G	3	146.6	153.7	153.0	157.7	116.9	112.6	163.0	143.2
		R.IAMYHALGEAVAPIR.L	3	43.6	40.2	19.3	21.8	15.7	16.5	12.8	9.0
		R.IVILGGGPAGYEALVAAA									
		R.G	2	132.6	118.2	257.2	260.7	164.4	137.6	221.2	281.0
MSMEG	MSMEG	R.IAYGTVLSGDQYLHSVPT									
_1753	1750	R.D	3	88.2	91.6	91.7	94.7	58.7	55.2	84.7	80.4
MSMEG	MSMEG	R.LGPLTEADIAQR.C	2	1.6	2.3	14.0	14.8	2.4	3.6	12.7	14.0
MSMEG	MSMEG	R.VVVADLDEPGAAATAAR.I	2	71.8	76.3	136.0	134.6	43.5	57.6	95.7	116.8

MSMEG	MSMEG										
_1803	1801	R.LAVDEAC#TTLIR.S	2	141.0	167.6	287.7	370.7	127.7	132.7	319.5	302.9
		R.VAAM*LENLAVVR.T	2	37.7	41.4	48.1	51.6	27.5	24.9	40.4	40.5
		R.VAAMLENLAVVR.T	2	165.2	184.0	114.0	115.5	134.4	148.2	99.0	94.8
MSMEG	MSMEG	K.AASGDAVTAPMQGTVVK.									
_1807	1807	V	2	71.3	66.4	88.6	82.4	41.7	37.0	60.7	61.6
		K.APLVPGTPDPVKDADEVV									
		AFAK.E	2	180.3	159.6	246.5	228.8	143.4	111.0	234.9	209.0
		K.APLVPGTPDPVKDADEVV									
		AFAK.E	3	3512.6	3731.4	5757.9	5943.0	2859.0	2749.0	6234.7	6070.8
		K.DAGLASVAVYAEPDADAP									
		HVR.L	2	552.7	559.5	432.9	463.5	510.5	571.6	390.1	502.8
		K.DAGLASVAVYAEPDADAP									
		HVR.L	3	2380.1	2103.7	2878.9	2619.0	1909.3	1592.0	2480.9	2333.0
		K.DAGLASVAVYAEPDADAP									
		HVR.L	4	111.5	94.5	65.1	52.8	75.1	73.8	63.0	57.3
		K.DGTITGLAVEAGAAITQGT									
		VIAEIK	3	104.0	107.0	113.1	125.0	96.4	75.8	139.0	110.6
		K.IANGEPLDITEDPTPR.G	2	2323.9	2214.9	2473.2	2348.4	2711.1	2722.7	2887.9	2912.8
		K.IANGEPLDITEDPTPR.G	3	88.6	108.4	71.6	104.1	54.0	69.0	69.4	89.7
		K.LVEEAPAPFLTDAQR.K	2	3372.0	3278.7	3210.6	3121.1	3791.3	3834.1	3657.5	3652.1
		K.LVEEAPAPFLTDAQR.K	3	206.7	205.9	179.4	179.4	182.6	166.9	171.9	172.7
		R.AKAPLVPGTPDPVKDADE									
		VVAFAK.E	3	590.2	614.8	3576.6	3759.3	1071.5	1058.1	1329.4	1405.8
		R.AKAPLVPGTPDPVKDADE									
		VVAFAK.E	4	338.6	323.1	356.4	344.4	595.1	598.6	536.2	626.2
		R.ALAEFTVEGLATVIPFHR.									
		A	3	64.4	69.6	66.8	71.5	116.4	103.0	141.9	129.0
		R.AVVSDPAFIGDGEK.F	2	240.4	196.6	343.9	298.3	159.5	98.2	335.5	273.1
		R.AVVSDPAFIGDGEKFDVH									
		TR.W	3	94.4	94.0	121.8	140.3	180.3	183.1	275.1	297.9
		R.AVVSDPAFIGDGEKFDVH									
		TR.W	4	159.1	137.1	164.4	151.7	496.3	486.4	443.1	449.1
		R.HVEAQVIADQHGNVVAG									
		TR.D	2	29.9	17.6	22.3	20.6	38.3	47.3	25.5	45.2
		R.HVEAQVIADQHGNVVAG									
		TR.D	3	1098.7	889.2	867.1	739.3	1220.0	1480.3	1055.4	1312.8

		R.SSHTWFLTHLLGLPGVR									
MSMEG	MSMEG	.N	4	36.3	32.1	15.0	14.8	17.3	15.6	5.3	4.2
		R.THMPDYPEEGALR.G	3	14.3	10.4	7.0	3.6	8.3	9.7	2.7	2.2
_1812	1811	R.YSVFSWQR.V	2	133.5	124.8	97.6	96.3	116.4	136.7	78.9	85.4
MSMEG	MSMEG	K.LLYAYGEATVAK.V	2	544.9	568.7	643.3	704.8	504.0	498.3	545.0	607.9
_1813	1812	K.NRPLGDGVITGYGTIDGR.									
		D	2	403.1	430.5	483.0	572.2	361.9	382.8	254.5	301.6
		K.NRPLGDGVITGYGTIDGR.									
		D	3	613.0	594.9	630.8	581.9	587.9	553.6	562.5	471.6
		K.SGTAHYVASGEQDAFDYV									
		R.D	2	398.6	488.7	287.1	342.9	318.8	384.6	213.4	283.5
		K.SGTAHYVASGEQDAFDYV									
		R.D	3	1158.7	1190.5	1167.5	1148.8	1150.5	1248.1	1128.7	1083.7
		K.TVTGEDVTMEELGGAHT									
		HMAK.S	3	149.3	174.3	199.3	213.4	78.4	106.9	88.1	124.6
		K.TVTGEDVTMEELGGAHT									
		HMAK.S	4	272.5	204.1	291.0	245.1	128.4	145.9	114.1	141.3
		R.IALLDEGSFVELDALAK.H	2	186.8	179.4	183.3	155.3	137.3	127.7	128.8	108.8
		R.IQEGVVSLGLYSR.I	2	1007.5	937.5	1605.3	1430.2	739.2	668.3	1354.5	1384.2
		R.LELQQTYEDTLVNPYIAAE									
		R.G	3	56.2	88.2	65.1	95.1	36.5	42.9	21.6	70.5
		R.RTEETLHPVGEEAVDK.V	3	1.0	0.5	0.7	0.5	0.2	0.1	0.1	0.1
		R.RTEETLHPVGEEAVDKVH									
		AK.G	4	0.0	0.0	0.0	0.0	0.4	0.7	0.0	0.1
MSMEG	MSMEG	K.VAQGATVTFDHEHVPTE									
_1819	1818	HLDR.L	3	83.4	76.8	74.1	89.0	38.5	50.4	192.3	196.6
		K.VAQGATVTFDHEHVPTE									
		HLDR.L	5	123.8	82.7	58.1	42.1	71.3	68.5	57.0	48.1
MSMEG	MSMEG	R.SALLTEFLTR.L	2	29.8	30.2	38.8	39.1	25.0	22.6	30.2	35.1
MSMEG	MSMEG	K.LAGEQAVLAAPDAYVVR.									
_1825	1824	T	3	121.3	119.6	57.3	60.6	135.5	130.5	109.2	105.7

MSMEG	MSMEG											
_1828	1826	R.EVFPALLADGLR.I	2	101.1	92.7	70.8	74.9	74.5	62.8	51.9	62.2	
		R.LDGAVIFDGVR.V	2	106.9	74.2	9.1	12.4	48.5	32.7	22.9	14.2	
MSMEG	MSMEG											
_1832	1831	R.VSSLDVAVDEIPR.M	2	20.5	0.0	36.5	0.0	17.9	18.5	38.6	39.7	
MSMEG	MSMEG											
_1834	1833	R.TTEEVDAVVDR.I	2	10.9	9.4	5.3	5.6	5.8	5.4	5.0	4.6	
MSMEG	MSMEG	K.VLAADEPLSLQAHPSAAQ										
_1836	1835	AQEGER.E	3	139.3	142.2	105.8	131.8	105.6	97.9	90.7	94.0	
MSMEG	MSMEG											
_1843	1842	K.AGVVPPAEDDDPAEWK.V	2	1453.1	1220.0	1474.3	1237.6	2171.6	2164.9	1667.2	1788.3	
		K.GVTEETTGVLRL	2	5.2	5.1	5.6	4.7	8.8	10.6	19.3	20.7	
		K.INIKPQVDQWIFDDGK.S	2	267.9	222.0	291.0	250.0	452.0	494.5	261.4	318.2	
		K.INIKPQVDQWIFDDGK.S	3	111.3	115.6	86.5	91.3	175.2	184.5	91.1	108.7	
		K.KINIKPQVDQWIFDDGK.S	3	571.7	640.3	458.4	557.6	659.9	738.1	437.8	594.1	
		K.NQAILGNIGHFDNEIDMAA										
		LER.S	3	405.1	363.9	341.9	324.0	470.2	407.4	274.1	252.7	
		K.VADLSLADFGR.K	2	532.6	460.0	488.1	446.2	868.3	774.3	599.2	554.4	
		K.VLIC#GYGDVGK.G	2	156.0	136.0	229.9	210.5	191.3	226.8	179.6	178.4	
		R.LAEHEMPGLMALR.R	3	87.6	42.5	33.9	11.7	39.6	43.7	6.1	6.9	
		R.VSVTEIDPINALQALMDGF										
		DVR.T	2	102.7	133.4	94.7	127.6	79.9	118.0	53.7	86.1	
		R.VSVTEIDPINALQALMDGF										
		DVR.T	3	93.4	111.1	71.8	88.5	78.6	110.8	44.6	67.7	
MSMEG	MSMEG	K.DQAEYIGVDVEGPYKPEH										
1843	1843	YR.Y	3	621.1	701.1	739.9	802.4	711.1	804.2	523.2	608.2	
		K.DQAEYIGVDVEGPYKPEH										
		YR.Y	4	270.2	267.4	243.7	242.0	398.0	370.3	225.3	252.9	
		R.IHVEALGGTLTK.L	2	15.1	8.5	22.0	26.4	33.4	28.4	15.6	19.1	
MSMEG	MSMEG	R.LHLPVPDWQVLLNVPTEL										
_1873	1876	AAQR.A	3	65.8	68.7	117.0	119.7	42.4	48.7	65.4	89.7	
MSMEG	MSMEG	R.AKVEKDOPENPQVVLTVR.										
_1874	1877	G	3	4.6	2.6	23.2	14.2	11.6	9.7	45.7	36.7	
		R.DVLLEQVWGYR.H	2	36.1	36.3	70.6	74.6	33.5	41.3	66.3	80.7	
		R.GEGFDTAVIGDGSQALTA										
		VR.E	2	325.3	373.6	281.8	279.1	263.8	298.7	313.7	308.8	

MSMEG		MSMEG									
_1878	1881	K.TIYLFV рЕLDHER.N	2	36.4	39.3	84.8	86.4	20.8	28.3	54.4	48.0
		R.GEAC*ADSFYTA FESAVQ									
		K.L	2	0.5	0.4	134.3	136.7	1.9	2.6	111.3	104.9
		R.TM*VVEDDRESTAGTTPE									
		R.PHAEVVVK.G	4	1.0	0.9	40.9	41.5	3.5	4.1	33.3	37.4
		R.TMVVEDDRESTAGTTPER									
		PHAEVVVK.G	4	4.3	5.8	238.9	284.4	20.4	27.4	169.0	217.1
MSMEG		MSMEG									
_1881	1882	K.AENQTLATITLQNYFR.L	2	7.9	7.9	22.5	21.3	9.0	7.0	19.9	19.6
		K.FLAVVDDVAER.H	2	142.9	131.4	110.7	114.3	179.8	151.3	129.7	118.9
		K.GIDNEAPPLTYTGPSEDG									
		TAQVQR.S	3	124.5	124.9	122.8	111.2	92.9	109.2	77.0	100.2
		K.GVHVVTVNDYLAR.R	2	94.5	90.9	82.9	88.6	86.0	92.6	58.5	75.9
		K.GVHVVTVNDYLAR.R	3	102.7	87.5	81.9	66.4	108.3	101.6	75.5	77.0
		K.LSGMTGTAETEAELHEIY									
		K.L	3	205.6	200.3	734.4	903.6	178.3	206.4	639.4	282.2
		K.TLTAVLPSYNALSGK.G	2	275.1	253.9	344.2	319.9	322.6	280.6	430.6	361.2
		K.VADYVNALSDDVEK.L	2	243.1	236.8	151.5	137.6	252.6	270.5	159.2	189.2
		R.DLIDS DAVGEPGELTR.E	2	214.5	213.7	194.8	200.9	227.0	229.5	164.3	162.1
		R.EGYDMFVGML EALK.E	2	23.5	28.1	6.9	8.5	20.6	17.7	10.6	6.2
		R.GHNFAIVDEVDSILIDEAR.									
		T	3	78.3	79.5	47.4	47.2	93.4	78.1	55.3	46.6
		R.GLPDPVETPEEYEAAWHE									
		VLPQVK.A	3	286.2	297.7	199.4	220.9	247.3	274.3	163.8	214.8
		R.KVADYVNALSDDVEK.L	2	34.1	32.6	32.7	49.8	27.5	25.0	46.4	64.4
		R.LNLPDDVPIEAK.M	2	23.0	25.0	39.4	45.6	19.3	23.8	20.8	34.6
		R.NGEVLIVDEFTGR.V	2	73.9	76.0	179.1	152.1	73.3	57.0	113.2	82.7
		R.NVLLNVIDR.K	2	62.9	52.7	35.4	22.9	51.8	40.3	25.4	18.4
		R.TPLIISGPADGASHWYQE									
		FAR.I	3	206.3	216.3	240.0	225.2	233.4	229.6	248.6	231.2
		R.VADGEDL DLLPEAFAVA									
		R.E	2	112.1	141.1	89.9	112.1	115.3	149.6	80.7	108.9
MSMEG		MSMEG									
_1888	1890	R.TPLAALLDAAGLEVPRPA									
		DGR.K	3	33.6	37.8	3.5	3.0	1.1	0.3	1.3	2.0
MSMEG		MSMEG									
_1890	1892	R.SSVTFDGDEQAR.S	2	4.5	4.1	2.1	1.6	2.1	1.9	2.0	1.4

MSMEG	MSMEG	R.FGLSTVDLDTSTADGAR.									
_1903	1907	R	2	68.5	47.4	9.4	5.5	26.9	8.4	20.9	4.1
		R.IGALTALTLLLR.R	2	5.8	5.6	0.0	0.0	1.7	0.5	0.1	0.0
MSMEG	MSMEG	K.GLAVAVVPVPTK.L	2	23.3	26.8	17.3	18.5	13.7	15.4	14.9	14.9
_1913	1917	R.STGYVVGGISPLGQR.K	2	41.3	42.9	59.9	68.8	24.7	28.1	67.9	77.5
MSMEG	MSMEG	K.EIAEIMETPIGTVMSR.L	2	82.5	90.2	44.5	52.9	88.6	97.0	44.0	57.5
_1914	1918	R.DAIPLLDQLYGGALR.M	2	54.3	59.7	42.6	52.7	20.5	64.2	21.0	43.4
		R.MAVYYADVEGFPYK.E	2	32.5	39.8	29.2	30.2	35.7	35.5	25.2	25.2
		R.SAEVEALEALPDTEIK.A	2	181.0	206.9	226.2	229.3	178.6	169.7	227.4	211.9
MSMEG	MSMEG	K.LAAEPLAELQLR.D	2	40.8	32.4	65.7	68.7	37.5	22.7	65.8	71.2
MSMEG	MSMEG	K.LLGALPTLYDSR.T	2	29.6	34.0	93.3	98.5	27.7	27.3	110.3	122.4
MSMEG	MSMEG	K.IAYVEIGAADVR.R	2	168.1	190.8	254.9	261.5	138.3	153.1	250.7	246.8
MSMEG	MSMEG	R.LIFENDYVTEPQVAQVK.									
_1935	1939	V	2	100.5	117.8	116.3	128.4	74.2	97.9	62.9	97.4
MSMEG	MSMEG	R.PVVLPHNPIPTVLVR.A	3	32.7	32.2	67.1	62.2	33.9	27.3	67.2	75.4
MSMEG	MSMEG	K.IVEADQIEEWAEAEK.A	2	6.6	9.6	76.3	87.7	17.5	21.5	75.9	83.0
_1951	1955	R.LPLQLIEDQVMTR.L	2	2.5	3.1	65.6	64.0	13.9	16.3	60.9	68.4
MSMEG	MSMEG	K.AAQQLFTVLGELK.G	2	28.3	30.6	74.1	50.0	13.9	24.0	57.2	67.6
MSMEG	MSMEG	K.AEALQDLESALTAQAQEAQ									
_1959	1961	R.S	3	43.4	45.1	13.2	14.8	86.3	50.6	14.9	19.7
		K.NFYFYFPDQLSIDR.Y	2	24.4	25.4	20.4	25.9	57.9	52.5	28.8	25.1
		R.IYFGPVISNTPADYAIVGK.									
		T	2	68.2	61.0	264.0	229.1	111.3	91.0	229.2	231.3
		R.LLDPTIVSPAFTQFQQGK.									
		N	2	283.5	279.9	483.6	465.2	214.1	236.5	366.7	417.4
		R.NFLFSNVIGENSK.I	2	47.4	57.7	25.0	40.9	85.4	74.7	22.6	32.0
		R.PAQAPPPPSAATPTGPVQ									
		ISQAK.A	3	51.6	29.5	13.3	25.6	33.7	33.6	6.1	18.1

		R.TRPVFVPTAGPNDPVAR.									
MSMEG	MSMEG	Y	3	18.3	15.8	87.7	89.6	41.4	40.2	67.5	61.7
_1979	1982	R.SLDDPNEYVLVEAFR.D	2	17.6	35.0	161.0	320.5	10.4	16.2	94.6	138.8
MSMEG	MSMEG	R.EVVLEVVEHDPQTGAYTV									
_1981	1984	ASGWGPKA	3	62.3	73.6	122.8	115.5	72.8	80.3	129.1	102.9
		R.TIAVTALPLDQAEGADIFA									
		R.Y	2	82.2	98.0	99.0	106.9	81.9	87.8	72.6	70.9
		R.TIAVTALPLDQAEGADIFA									
		R.Y	3	44.8	50.3	29.4	25.6	32.0	43.9	21.3	23.8
MSMEG	MSMEG	K.IGISTFVNDDTIDAVTLAR.									
_1996	1997	A	2	76.0	80.0	74.1	77.1	57.1	56.8	87.5	80.4
		K.PVQKPHPIYIGGASEATV									
		K.R	3	47.1	47.2	46.1	44.9	36.4	30.5	54.0	46.6
		K.PVQKPHPIYIGGASEATV									
		K.R	4	43.5	47.4	36.3	34.3	24.6	27.5	40.5	41.6
		R.GFHSLVIAEHSHIPASR.E	3	31.9	35.3	25.4	27.9	15.4	23.7	31.7	31.1
		R.GFHSLVIAEHSHIPASR.E	4	87.4	98.1	47.0	49.6	47.4	59.0	48.7	56.3
		R.HDAGWISNPLPVDFLSK.F	2	45.3	41.4	55.2	49.6	23.3	33.4	49.5	51.1
		R.LLDEQIEAIK.A	2	75.3	56.7	73.0	47.6	45.2	48.3	70.9	77.0
		R.PKPVQKPHPIYIGGASEA									
		TVK.R	4	54.8	60.8	54.0	56.8	23.1	27.0	39.3	46.7
		R.TLDPFVTLAAAAAVTTK.I	2	82.1	83.0	79.0	94.8	22.6	40.4	31.8	53.8
MSMEG	MSMEG	R.EGNADYAVIALLQNPEDV									
_2010	2010	DTYVDHPAHVELSR.Q	4	61.8	72.1	79.7	95.2	74.4	76.0	123.0	112.0
		R.SAVQFALPENAVLDL	2	46.0	34.7	63.3	52.3	63.6	54.2	83.2	72.0
MSMEG	MSMEG										
_2019	2018	R.ALFADAVATFGR.V	2	10.9	9.8	19.8	25.7	3.1	6.2	14.2	17.1
MSMEG	MSMEG	R.ILSAPLEPLTEGTVTSAED									
_2025	2027	LAALIAK.A	3	19.1	20.4	28.2	28.7	16.1	20.2	19.8	23.0
MSMEG	MSMEG	K.AVESPEPPAFLLLGSDALS									
_2026	2028	AYR.R	2	264.8	271.3	158.5	152.8	178.1	180.1	160.2	173.5
		K.AVESPEPPAFLLLGSDALS									
		AYR.R	3	134.3	132.0	56.0	57.4	94.1	90.8	51.7	57.7

		R.DVSSVADIAETAPDR.V	2	343.5	331.8	195.5	191.5	252.5	256.5	204.8	208.7
		R.FGGVDVLVNAGYGYR.A	2	326.2	333.5	96.5	103.6	320.3	294.5	106.2	117.6
		R.TLAEAVAAAGHNLVVTAR.									
		D	2	175.4	174.5	110.9	104.1	111.6	111.7	99.6	83.1
		R.TLFDTIIFGTVATIK.A	2	63.7	68.9	127.6	105.1	43.9	42.6	163.8	184.4
		R.TLFDTIIFGTVATIK.A	3	65.3	62.9	20.1	20.9	32.3	32.3	12.5	17.8
		R.VVAAPLDVTRPEQVTAAC									
		QLADER.F	3	896.0	921.2	468.9	456.2	636.5	634.8	499.1	490.1
MSMEG	MSMEG	K.LAVEAYPPYAEYQTK.T	2	55.2	64.7	48.6	63.7	24.8	26.1	43.6	43.9
_2027	2029	R.ILEQGTTDGHVHLDRPIVL									
		FTTTGAK.S	4	46.6	43.3	65.4	63.3	22.4	26.9	76.3	70.9
MSMEG	MSMEG	R.GLYQYKPDLPFSPGAEV									
_2033	2034	GVVR.S	3	248.9	257.0	411.2	457.1	217.6	204.5	380.1	359.3
		R.LLVVGFTGGEIPQVK.V	2	148.4	145.0	193.9	232.7	103.8	96.6	96.9	115.8
		R.LSGGETVLVHGAGGIGS									
		SVRL.L	3	79.2	70.2	46.5	36.5	62.1	53.6	15.8	16.1
MSMEG	MSMEG	R.GPVLVGSATEVADEL.R.									
_2045	2046	W	2	57.4	50.8	8.2	9.8	72.2	60.1	28.5	10.2
		R.VAWNIVTSYLDAA.R.N	2	92.8	67.0	133.2	93.4	59.9	53.6	411.9	488.2
MSMEG	MSMEG	K.ANDMWGPTEDPNSAWK.									
_2078	2080	R	2	68.0	81.8	129.2	142.6	158.7	182.9	135.8	142.9
		K.VQFQSGGPGSHAVYLLD									
		GLR.A	3	325.1	337.1	611.6	613.2	837.7	777.2	741.0	689.0
		K.WETFLTSELPEWLAANR.									
		D	2	112.0	112.5	153.1	160.8	195.6	213.4	151.8	149.1
		R.ELQAMVPDLQR.V	2	93.3	101.6	232.9	225.2	323.3	260.9	293.7	278.4
MSMEG	MSMEG	R.LPADQIVALGALTPR.E	2	206.3	214.9	116.3	110.2	101.6	125.3	74.6	83.3
MSMEG	MSMEG	K.ILDIFEGTQQIQQLVVAR.R	2	49.1	40.6	150.5	150.3	31.9	32.2	106.6	136.5
MSMEG	MSMEG	K.AAELGITAVNVPEDFEGIA									
_2081	2083	EHR.S	3	161.6	151.7	309.9	304.6	159.7	165.9	428.6	382.8
		K.ASGADLFDLTPDDDK.M	2	53.4	50.3	78.6	105.6	27.4	41.0	86.7	103.3

MSMEG	MSMEG										
_2171	2175	K.SPLGRDALTELLRR.A	3	0.2	0.3	5.0	5.0	0.1	0.2	0.9	1.5
MSMEG	MSMEG										
_2174	2178	R.PFYVATAANPENMR.R	2	118.0	102.0	4.7	10.0	101.4	106.1	3.9	10.3
		R.SFTIVGDLAQR.R	2	29.4	23.5	42.2	38.8	18.7	13.6	37.7	28.0
		R.VAYLLYTYR.K	2	68.4	61.2	12.0	8.1	18.3	19.6	26.7	17.9
MSMEG	MSMEG	K.LADWGSGSALGDDTYER.									
_2198	2203	V	2	16.9	18.9	130.4	127.6	19.2	30.1	90.7	137.2
		R.FDLDPGRPILHGLVGDIDA									
		AR.L	3	32.3	32.8	111.5	104.9	42.4	45.9	118.1	123.3
		R.FDLDPGRPILHGLVGDIDA									
		AR.L	4	18.3	17.4	55.9	58.5	23.7	23.4	68.4	59.5
		R.GSAVALGAAAFNAR.V	2	62.9	51.7	56.9	39.5	21.0	18.3	60.5	34.9
		R.LLTQYTSAMDVGYR.G	2	234.4	246.9	176.2	206.7	166.9	173.6	208.9	265.1
		R.LTDFDEIELPNLNR.V	2	139.9	162.9	308.4	327.8	173.3	178.6	347.8	316.8
		R.VPGTVFDLGVNK.A	2	14.5	12.1	175.2	163.4	49.1	36.1	237.5	168.4
MSMEG	MSMEG	K.TGPFGGTIAHGLLTLSSLP									
_2201	2206	HFTHQLYR.V	4	61.8	61.6	80.1	73.6	82.8	88.0	94.4	87.0
		K.TGPFGGTIAHGLLTLSSLP									
		HFTHQLYR.V	5	25.9	12.7	39.5	20.1	33.1	35.3	41.5	43.2
		K.VFDNLDAAAAAGTELGP									
		TDWLEVTQDR.V	3	175.7	234.6	235.0	333.0	142.2	252.4	153.9	282.6
		R.VDNITM#AINYGYNK.V	2	81.1	96.4	100.2	113.5	72.1	73.1	79.2	69.0
		R.VDNITM*AINYGYNK.V	2	81.1	96.4	100.2	113.5	72.1	73.1	79.1	69.0
		R.VDNITMAINYGYNK.V	2	197.7	213.6	343.8	386.9	178.9	167.1	297.4	269.1
		R.VNLFADATEDHQWIHVDP									
		EKA	3	358.1	437.3	554.6	661.5	405.7	426.6	565.9	542.7
		R.VNLFADATEDHQWIHVDP									
		EKA	4	336.3	267.2	509.9	379.8	417.7	434.2	540.1	532.9
MSMEG	MSMEG										
_2225	2230	K.AFMGNPILC*DILIR.S	2	14.8	15.1	38.3	38.9	17.0	16.7	38.6	37.4
		R.EFVVATPYVEAK.D	2	29.2	25.7	66.3	66.3	32.9	45.0	47.2	68.6
MSMEG	MSMEG	R.YAVPGLGNVPLETGPLAR.									
_2263	2266	R	2	76.7	86.5	62.2	69.4	249.3	239.3	106.7	99.9
MSMEG	MSMEG										
_2271	2274	R.EVNPTTEILPVSAR.T	2	27.0	35.3	109.9	152.2	61.5	66.6	64.8	58.7

MSMEG		MSMEG										
_2280	2283	R.SDELLDLITTNVAR.R	2	14.8	16.4	68.5	66.9	50.1	35.9	102.3	75.6	
		R.TPIRPEYLAGLIDR.L	2	26.6	35.4	93.9	104.6	38.7	46.9	48.0	63.8	
		R.TPIRPEYLAGLIDR.L	3	96.0	77.7	120.3	115.6	125.6	75.1	99.7	108.0	
		R.VPVLAIAAHIPR.S	3	2.8	1.0	43.6	29.6	3.9	3.9	10.2	8.3	
MSMEG	MSMEG	R.VYGLPGDSLNGFTDAIR.R	2	5.6	7.2	89.6	80.0	9.8	8.2	37.2	37.7	
		K.DDGLHGSDLIQTAWTLAR										
		.A	2	201.5	195.3	137.8	140.5	234.0	229.4	188.6	176.2	
		K.DDGLHGSDLIQTAWTLAR										
		.A	3	386.1	388.3	266.2	254.1	463.9	422.1	348.9	335.4	
		K.EVTVLSLAEIGVEPDEVGV										
		ANAGSK.V	2	357.2	370.0	237.5	250.8	307.4	305.9	246.0	240.9	
		K.EVTVLSLAEIGVEPDEVGV										
		ANAGSK.V	3	636.1	690.2	453.7	481.2	514.1	548.7	422.1	462.9	
		K.IAEYLVAQK.L	2	4.5	4.1	0.9	1.2	2.7	3.4	0.1	1.2	
MSMEG	MSMEG	R.AVEEALLIK.E	2	17.4	17.5	4.6	4.6	23.5	19.7	11.3	7.2	
		R.EAADAVLDEINER.A	2	1954.5	2190.4	1621.9	1867.6	2206.1	2259.3	2035.6	2163.3	
		R.EAADAVLDEINER.A	3	66.3	42.6	37.9	18.4	72.2	60.5	42.9	42.9	
		R.EGGDSTVTVLTAGPER.A	2	202.0	168.0	90.7	67.6	212.1	203.0	99.8	90.7	
		R.ETDEGVFTLEASLPAVVS										
		VNEK.I	2	292.8	293.4	253.6	228.2	294.2	271.7	265.1	232.3	
		K.IVEELADSLGGAVGASR.A	2	1442.7	1403.3	1386.0	1443.2	1169.2	1120.6	1123.4	1539.1	
		K.IVEELADSLGGAVGASR.A	3	481.4	487.0	244.5	243.1	448.2	397.0	172.0	162.3	
		K.REPAVAGDRPELTEASVV										
		VAGGR.G	3	583.9	571.1	2682.6	1906.7	536.9	513.7	873.8	845.4	
MSMEG	MSMEG	K.REPAVAGDRPELTEASVV										
		VAGGR.G	4	450.7	466.1	198.3	218.3	390.5	390.3	121.2	115.9	
		K.TIVAVNKDEEAPIFEIADLG										
		IVGDLFK.V	3	973.4	1087.7	834.3	913.9	429.2	675.3	418.4	606.7	
		K.VSAELLTAAR.A	2	37.3	32.5	29.9	24.8	34.0	24.9	13.2	16.2	
		R.AAVDSGYYPGQFQVGQT										
		GK.T	2	1873.0	1838.9	1723.5	1736.0	1577.0	1597.9	1279.4	1320.6	

		R.AAVDSGYYPGQFQVGQT									
		GK.T	3	466.6	513.0	198.4	241.2	310.6	347.8	76.1	114.0
		R.ALGEPSAVVVGKPGTAAG									
		LTDGLK.A	2	144.9	141.5	58.3	50.2	181.7	153.0	66.1	48.4
		R.ALGEPSAVVVGKPGTAAG									
		LTDGLK.A	3	2692.3	2957.4	1993.6	2094.7	3088.5	3321.4	2174.6	2254.7
		R.EPAVAGDRPELTEASVVV									
		AGGR.G	2	153.3	96.0	75.1	47.8	112.5	105.6	36.3	30.7
		R.EPAVAGDRPELTEASVVV									
		AGGR.G	3	2033.7	2369.2	2025.9	2426.6	1677.0	1618.5	2114.2	1857.2
		R.IGSGLLVDVIEVK.E	2	1041.6	1051.0	903.6	860.9	925.4	917.7	729.5	740.0
		R.PGSVEAVPADGAGEVNN									
		VEVPAQAENATR.I	3	249.4	291.7	122.8	146.2	104.4	115.7	26.5	29.6
MSMEG	MSMEG	K.ATGEVEAELPEHPDADER									
_2362	2361	.R	3	22.3	14.4	17.1	10.7	18.6	12.4	11.9	9.6
		K.IDGVALSLVYR.D	2	11.7	8.2	8.3	7.1	18.5	13.5	3.4	15.3
		K.VAGSTVGLATLHNASEVK.									
		R	2	21.5	20.7	26.5	26.4	26.8	19.1	33.3	37.0
		K.VAGSTVGLATLHNASEVK.									
		R	3	101.1	94.4	96.3	103.8	80.4	74.5	76.7	77.7
		R.EFEFPHTC#PEC#GTELAPAK.E									
		PAK.E	3	78.4	77.3	84.5	109.5	50.6	50.5	63.7	79.0
		R.LTPSDEFPVPAVLEVR.G	2	201.5	193.0	162.3	152.5	214.7	221.9	165.2	156.6
		R.M#LSLDNVFDSDeltaWA									
		AR.I	2	42.0	35.8	50.1	48.2	62.5	43.8	49.9	57.3
		R.TPDSPTQLVGGAGFATEF									
		APAEHLER.M	3	122.2	117.5	101.7	107.4	114.7	103.2	126.2	108.3
		R.VADFEELNAGLVAEGKPP									
		FANPR.N	3	167.9	163.4	167.2	161.4	280.8	208.3	195.4	177.3
MSMEG	MSMEG	K.EVSSTEVTQAHLDQIAAT									
_2365	2364	DDR.F	3	387.5	409.0	260.9	327.9	253.7	265.9	225.1	274.9
		R.TVLDTALLHAVIAGHDAR.									
		D	3	71.8	53.8	220.6	215.5	65.1	68.3	554.5	509.3
		R.VGDDGTHSAEEVMALTR.									
		A	2	60.1	56.4	14.5	18.5	19.0	19.8	0.0	1.3

		R.VGDDGTHSAEEVMALTR.									
MSMEG	MSMEG	A	3	77.7	74.6	31.1	32.3	37.7	20.0	18.4	19.4
_2366	2365	R.IGVLTGGGDC*PGLNAVIR.A	2	62.0	66.7	466.1	504.4	36.5	38.8	335.6	387.0
MSMEG	MSMEG	K.VQAAGAIVGAVMK.A	2	44.6	36.6	47.6	47.5	38.3	23.9	53.2	63.8
_2367	2366	R.AWWGNFLVQK.A	2	65.2	63.7	14.9	20.7	54.6	71.8	21.5	15.8
		R.DLVNAGAVELVAATVDHG									
		VSSEAAR.A	3	346.1	314.4	187.9	158.5	353.7	292.1	281.8	236.9
		R.IGLALNC#EITPWGR.F	2	99.1	94.7	79.9	79.3	101.3	98.8	120.2	73.9
MSMEG	MSMEG	K.AVIAELVQSLR.K	2	85.9	80.7	36.9	29.1	97.0	77.4	40.8	30.4
_2372	2371	K.LAEALGC#VGLR.C	2	18.7	12.9	11.0	8.7	16.7	9.1	27.4	28.1
MSMEG	MSMEG	K.VVDVSTESTLIEATGTPEK									
_2373	2372	.L	2	62.3	62.5	4.0	5.4	44.3	43.2	0.5	1.0
		R.EIAQSGVVSUSR.G	2	6.8	5.5	1.5	1.1	7.6	4.6	1.4	0.9
		R.GQIIAVNLFR.A	2	66.9	65.3	6.8	9.2	74.7	69.1	6.3	6.7
		R.M*TIVVSVEDSPLSEQITK.Q	2	21.4	0.0	17.5	0.0	12.8	13.5	5.1	6.3
MSMEG	MSMEG	R.RGFNIQSLAVGATEQK.D	3	32.9	37.4	4.2	11.7	33.6	40.1	5.7	7.1
_2374	2373	K.AEEQGLEVDTPAEVAK.W	2	45.7	43.8	14.7	10.8	27.2	35.2	5.2	6.1
		K.APENVTVGMVAPK.G	2	31.7	33.3	8.4	12.9	7.2	9.6	3.9	6.5
		K.GEGQALALSYAAIGGAR.									
		A	2	1351.7	1205.3	1063.2	989.7	1275.3	1112.4	1164.2	1010.8
		K.GEGQALALSYAAIGGAR.									
		A	3	148.5	140.4	76.6	86.3	149.2	131.0	96.9	82.0
		K.GVPC#LIAIDQDPK.G	2	630.0	495.8	663.3	519.6	648.7	681.0	755.5	861.1
		K.GVPC*LIAIDQDPK.G	2	629.5	491.6	662.9	518.2	637.3	679.8	752.2	860.3
		K.LIVDLIYEGGIAR.M	2	265.8	210.0	229.3	187.8	276.7	273.1	240.0	258.1
		K.VAVIGYGSQGHAAHSLSLR.									
		D	4	371.8	238.9	106.2	60.0	413.9	333.4	186.9	142.5
		R.DLMWSVDRPITETA	2	333.5	282.4	577.5	521.6	342.6	268.3	416.2	329.5
		R.EKAAEQGLEVDTPAEVAK									
		.W	2	24.8	14.6	11.8	6.2	25.5	24.7	9.4	11.4

		R.LYPGVTGPLVGNPPIDFV									
MSMEG	MSMEG	VVR.E	3	273.3	314.9	205.6	220.1	180.0	152.3	214.2	193.5
_2382	2381	K.EIAEHPFGNPNFTGR.S	2	36.6	25.4	38.9	26.8	63.2	54.3	32.3	42.1
		K.EIAEHPFGNPNFTGR.S	3	91.2	69.7	78.6	57.5	81.9	80.7	73.2	94.0
		K.GHDTFC#PLGPWIVTDLD									
		PSDVELR.T	3	109.0	135.1	124.2	145.9	85.2	106.1	104.6	138.9
		K.GHDTFC*PLGPWIVTDLD									
		PSDVELR.T	3	107.5	133.3	124.2	144.6	85.0	104.1	104.5	138.8
MSMEG	MSMEG	K.TALLEGLELKPR.K	3	24.4	6.9	3.6	3.3	43.9	28.9	16.2	14.7
_2383	2382	R.GPTTFAAGSVPDFAITR.S	2	410.2	411.7	564.2	573.0	467.2	420.6	768.0	710.3
		R.IGVAEFVPEFAHLPSVLGE									
		GNK.K	3	72.6	76.2	27.2	32.0	45.1	43.7	24.1	25.1
		R.TALFNWAYAR.H	2	58.5	43.9	75.9	59.7	54.1	51.9	109.2	117.3
		R.VVVLGDAWGLLK.F	2	65.0	58.8	26.8	20.6	65.8	59.1	37.2	26.3
MSMEG	MSMEG	K.TMAVNVDGELPPGVSAK.									
_2387	2386	D	2	98.0	132.2	108.9	129.7	55.9	50.8	84.0	89.2
MSMEG	MSMEG	K.AGLLAAEVAQDDVELLWK									
_2388	2387	.V	2	96.1	97.0	125.2	113.1	129.3	119.9	107.5	100.2
		K.GSVLVAGPDFGTGSSR.E	2	186.9	162.5	130.9	104.4	157.0	189.3	68.8	94.6
		K.VIEQNPGLEITVNLQDR.T	2	119.1	123.2	73.8	63.2	83.6	95.2	60.2	58.3
		R.LLEGLDDIGLTLR.K	2	126.2	122.3	134.1	129.2	143.6	135.6	92.5	92.4
		R.NDPSFILNLSPDFDK.G	2	294.7	284.2	181.1	169.6	333.3	298.9	176.3	164.9
		R.SNVDTDQIIPAVYLK.R	2	2046.0	2312.8	2015.4	2188.6	1638.9	1740.7	2058.1	2229.9
		R.TGFEDGLFAAWR.N	2	66.9	62.2	46.4	50.0	70.6	73.8	29.1	38.8
		R.TVTAGTVVVVPFR.I	2	80.8	69.5	123.1	111.8	122.6	122.6	119.2	106.2
MSMEG	MSMEG										
_2389	2388	-.MNKAELIDVLTTK.M	2	67.0	79.7	75.9	66.7	251.7	266.2	290.0	268.0
		-.MNKAELIDVLTTK.M	3	9.9	10.3	10.6	13.6	167.9	145.1	181.9	173.4
		K.AELIDVLTTK.M	2	1259.0	1237.4	1986.6	1874.3	1782.9	1571.3	2214.9	1988.6
		K.GDSVTITGFGVFEQR.R	2	400.8	384.4	569.6	531.3	533.2	501.0	600.8	572.9
		K.LPADGPAVK.R	2	0.5	0.5	0.6	0.4	1.3	1.1	0.7	0.8
		K.VKPTSVPAFRPGAQFK.A	2	196.0	132.3	322.9	209.4	429.6	318.0	547.8	396.4

		R.AVHKGDSVTITGFGVFEQ									
MSMEG _2391	MSMEG 2390	R.R	3	11.1	16.2	10.7	14.7	140.1	137.3	192.2	191.4
		R.QATAAVENVVDTIVR.A	2	641.1	654.0	1167.9	1131.3	955.9	831.3	1411.4	1239.9
		R.QATAAVENVVDTIVR.A	3	61.0	60.5	82.6	76.1	89.3	83.5	90.4	84.8
		R.RQATAAVENVVDTIVR.A	2	45.3	41.2	56.0	46.7	133.0	130.9	111.5	107.3
		R.RQATAAVENVVDTIVR.A	3	33.4	30.6	38.3	36.8	104.1	84.4	86.2	82.2
		K.ANALVDEQVIDALYR.A	2	250.1	253.7	346.6	328.0	269.7	227.2	429.1	366.1
		K.DRPFVPATPPAFGER.E	2	61.4	64.2	61.0	76.4	44.7	60.9	76.3	95.1
		R.DGDVLVHHPYDSFSTTVQ									
		R.F	3	104.1	98.9	122.9	130.7	60.9	82.7	124.6	155.5
		R.FIEQAAADPNVLAIK.Q	2	230.4	225.2	432.0	423.0	164.8	189.5	381.9	389.6
MSMEG _2397	MSMEG 2396	R.GIC*ALRPGVPGYSDNITV									
		R.S	3	246.0	277.0	351.3	355.7	171.6	219.4	246.9	334.9
		R.HDSHWVALPQEGQTVR.									
		D	3	51.7	36.3	74.5	58.9	21.5	22.1	44.6	46.7
		R.HDSHWVALPQEGQTVR.									
		D	4	38.6	28.3	32.2	21.3	21.4	18.2	22.6	21.8
		R.LEVSDDMTESMLELLL.R.E	2	43.3	46.8	56.1	64.9	29.0	38.1	54.2	69.0
		R.NADFEVEEDRDEDLLQAL									
		ER.E	3	175.5	169.6	182.1	180.3	131.0	110.8	198.7	167.0
		R.TLEQAGVHVYGLIGLK.T	2	39.0	35.2	256.7	294.2	36.8	27.2	217.3	302.3
MSMEG _2399	MSMEG 2398	R.TLEQAGVHVYGLIGLK.T	3	61.1	63.6	85.1	95.9	45.3	52.7	85.5	112.1
		R.TSGDSPIVNALIDAAEAGK									
		.Q	2	185.3	224.9	187.4	202.4	147.2	188.2	216.3	226.4
		R.VLALAADPSLPLLER.A	2	240.3	217.6	378.7	353.0	231.0	148.4	535.6	351.5
		R.ALEPVADQVAQMGEFLR.T	2	28.9	28.5	31.5	38.9	11.9	12.9	39.3	29.4
MSMEG _2407	MSMEG 2405	K.LATPDQGFTSSQAAAR.A	2	8.7	7.8	7.2	6.5	9.7	11.2	8.3	9.2
		K.YVDSWGLMK.V	2	62.5	59.0	24.4	20.1	54.2	63.7	19.3	19.5

		R.EVNAGYNIVTEAYGPLGV							
		GR.L	2	119.6	127.2	76.8	71.8	125.4	123.3
		R.LGLDYVDLYLIHWPGGDT							
		SK.Y	3	98.4	103.1	71.4	75.0	83.0	89.4
		R.LIDTAAAYGNEAAVGR.A	2	295.6	250.0	279.7	230.4	293.8	332.3
		R.LLDHPAVTAIAEAHGR.T	3	102.9	85.2	89.9	79.1	112.4	117.7
		R.LLDHPAVTAIAEAHGR.T	4	163.9	142.4	97.6	75.4	208.7	201.8
		R.SVSAALEAGYR.L	2	24.8	20.6	16.9	14.9	27.4	20.7
		K.LWNSDQGYDATLAAFDA							
MSMEG	MSMEG	SVQR.L	3	195.6	193.3	70.9	66.1	106.8	121.6
_2408	2406	R.AVAALQAGYR.H	2	67.6	52.2	31.6	24.7	51.2	35.5
		R.ITLNDGNSIPQVGLGVWQ							
		TPAEDTER.A	2	66.8	74.3	10.4	14.1	21.4	22.2
		R.ITLNDGNSIPQVGLGVWQ							
		TPAEDTER.A	3	476.1	543.9	192.1	224.5	201.9	268.4
		R.LGVDYLDLYLIHWPV PEN							
		NK.F	3	587.0	627.9	296.5	297.2	209.1	238.8
		R.WHIQLGNIVIPK.S	2	90.1	89.7	50.4	59.0	21.6	23.7
		R.WHIQLGNIVIPK.S	3	97.6	95.8	12.0	9.5	37.3	36.0
		K.VKEIVGEVPGL	2	11.2	15.3	21.0	18.8	23.0	24.3
MSMEG	MSMEG	K.VVLGLYEDFLC*PAC*GNF							
_2410	2408	ER.S	2	36.8	38.9	31.6	31.2	10.3	29.5
		R.FHTALYTPELQPQENSGI							
		YPDNDAR.L	3	192.0	212.3	103.4	118.5	155.5	180.6
		R.INGEDYSPTTPDALVAK.V	2	71.4	84.5	43.3	46.2	66.9	74.3
MSMEG	MSMEG	K.HSGADAVYPGYGFLSENP							
_2412	2410	DLAAK.C	3	207.7	204.8	276.0	262.6	132.6	151.8
		K.LAEQIVEAGAHVLAIK.D	2	55.6	39.9	70.9	47.8	77.4	48.1
		K.LAEQIVEAGAHVLAIK.D	3	172.5	161.0	186.7	162.6	187.2	175.0
		K.LPPLDLQAPPAGSK.Q	2	171.7	174.0	249.3	241.8	153.8	159.3
		K.LPPLDLQAPPAGSK.Q	3	40.1	43.3	56.3	68.0	29.0	34.8
		K.LTADDEALLAQPGPK.R	2	145.1	140.1	194.0	184.6	133.9	131.7
		K.LTADDEALLAQPGPK.R	3	17.1	19.3	21.4	25.2	11.5	15.7
		K.VVELAPAPNLSDEL.R.Q	2	439.2	430.0	540.6	544.3	471.4	453.1

K.VVGDLALALVAGAGITAEFF									
AEDPAK.Y	3	34.4	38.1	43.3	48.1	19.7	22.5	29.0	34.0
K.VYAPFESGLPGPTGR.V	2	250.9	253.2	392.9	380.5	223.1	231.1	421.7	444.9
K.VYAPFESGLPGPTGR.V	3	10.9	14.0	13.7	17.0	7.0	9.4	8.7	10.8
K.YDIPDSVIGFLR.G	2	14.9	19.1	21.6	28.6	9.9	9.3	23.4	19.7
R.AAYEMGIATVAVPYEDR.									
N	2	72.8	50.0	68.4	58.3	61.2	50.9	70.0	63.3
R.AVC#DLEPYWEAVR.K	2	115.2	113.1	93.6	94.1	93.3	102.4	103.1	106.2
R.AVC*DLEPYWEAVR.K	2	113.2	111.4	93.5	94.1	93.0	102.0	103.1	106.2
R.AYLSVDEIIR.V	2	57.7	50.7	78.1	70.6	47.7	46.2	76.0	74.1
R.EAESAFGDASVYLEQAVL									
NPR.H	3	50.4	46.2	45.7	49.1	38.5	41.8	53.9	53.1
R.ESLAEAIEAASR.E	2	54.6	39.7	83.6	66.2	41.5	32.4	80.9	66.7
R.ETYGDTSSLSANQFFYGL									
R.Y	2	47.9	40.7	61.0	47.8	38.8	34.8	63.9	47.9
R.ETYGDTSSLSANQFFYGL									
R.Y	3	13.7	17.4	23.3	27.4	5.0	11.6	11.2	21.1
R.FEEEIEANYAAADR.V	2	61.1	62.2	46.3	41.0	20.4	25.2	17.8	23.3
R.GELGDPPGGWPEPLR.T	2	112.2	114.1	146.2	145.2	88.7	96.7	152.7	164.2
R.GVSTNIPFLQAVIDDPDFR									
.A	2	122.1	108.9	140.1	127.3	121.3	132.0	160.3	173.9
R.GVSTNIPFLQAVIDDPDFR									
.A	3	28.0	33.2	31.6	36.4	17.2	27.4	26.5	36.1
R.IAAGETLADLGLSQDR.L	2	444.2	428.7	310.2	312.5	411.3	386.9	351.5	366.1
R.IAAGETLADLGLSQDR.L	3	27.1	30.2	34.8	40.4	12.3	21.6	22.5	33.9
R.IFDALNNVESMR.P	2	21.9	19.8	19.9	16.0	8.2	7.2	4.3	5.9
R.IFDALNNVESMRPAIDAVR									
.E	3	224.5	240.4	270.2	266.9	228.5	204.9	313.4	250.2
R.ILNLYLADITVNKPHGERPS									
TVYPQDK.L	4	78.1	84.9	110.2	104.1	73.1	66.5	114.7	107.7
R.IQVEHTVTEEITVDLVSS									
QLR.I	3	366.2	358.4	504.9	515.5	310.4	337.9	553.3	589.0
R.KVYAPFESGLPGPTGR.V	3	11.2	11.3	20.8	19.1	11.2	14.1	28.1	27.1
R.LKADESYQIGEVGHPVR.A	2	2.7	1.5	3.9	3.7	7.2	2.7	9.0	2.5

		R.LKADESYQIGEVGHPVR.A	3	72.0	62.4	153.0	133.4	74.1	56.6	109.1	90.2
		R.LKADESYQIGEVGHPVR.A	4	63.7	49.5	71.5	59.5	52.4	49.4	67.4	65.1
		R.LLFPGPTAEFFEAHR.E	2	20.3	16.5	34.7	31.6	25.9	17.6	51.7	35.5
		R.LVELGPEGFAGWLR.E	2	161.0	179.8	273.8	281.8	211.3	188.5	386.2	340.1
		R.TTGLLM#VAPYVAR.S	2	17.8	17.3	78.4	81.0	12.0	13.6	37.2	41.2
		R.TTGLLM*VAPYVAR.S	2	17.8	17.3	78.4	81.0	12.0	13.6	37.2	41.2
		R.TTGLLMVAPYVAR.S	2	66.8	63.6	98.4	88.8	55.8	52.4	114.6	89.4
		R.VTTSFIDDRPHLLTSR.S	3	51.6	68.2	1931.8	2100.2	48.1	47.5	532.5	560.7
		R.VYTTHEIPGGQLSNLR.Q	2	45.6	36.5	89.1	85.9	55.2	49.2	90.2	87.0
		R.VYTTHEIPGGQLSNLR.Q	3	217.8	208.9	263.7	256.7	197.2	195.5	291.1	274.1
MSMEG	MSMEG										
_2413	2411	K.NIAALDVAGATVR.R	2	22.0	26.8	27.7	32.7	14.1	13.2	19.5	21.6
MSMEG	MSMEG	K.EVASLGGDVSALLPSPVN									
_2414	2412	R.R	2	80.3	87.8	117.1	150.9	67.6	67.6	98.6	99.7
		K.HVAGVDTFFFVATTPQYSF									
		VSSSLAK.E	3	106.5	107.2	123.6	122.4	85.8	83.3	105.5	100.8
		R.VESGQGLVVDFVK.S	2	88.6	83.9	160.0	144.2	80.3	80.9	151.6	145.2
MSMEG	MSMEG										
_2415	2413	K.LDIGSAEFITELEK.F	2	4.7	4.9	172.6	161.9	2.6	4.7	245.4	209.8
MSMEG	MSMEG	K.SSILADGVESLLGAIYLEH									
_2418	2416	GLTVVR.E	3	15.3	15.9	18.3	18.4	4.8	5.1	12.4	15.7
		R.ASIVNTQALADVGR.G	2	65.6	68.3	149.3	177.4	66.0	54.8	177.5	195.5
		R.LFGEELLDTAPTLGAGLDW									
		K.S	2	34.3	37.8	47.0	42.3	14.7	19.5	23.4	33.2
MSMEG	MSMEG	K.IALAAC#TGM*ASDQPLSR									
_2421	2420	.R	2	11.9	13.2	4.8	5.3	5.2	6.6	5.7	4.8
		K.IALAAC#TGMASDQPLSR.									
		R	2	13.0	0.0	6.1	0.0	5.2	6.6	20.5	7.0
		K.IALAAC*TGM#ASDQPLSR									
		.R	2	12.0	0.0	4.5	0.0	7.8	10.7	5.4	4.5
		K.LEIDLSSLSEADVVK.R	2	18.3	0.0	58.4	0.0	8.7	10.0	42.2	51.4
		K.SGTEVTFSVADTVLPK	2	106.4	108.1	77.5	76.9	93.4	98.6	75.6	86.4
MSMEG	MSMEG										
_2423	2422	R.VNPLALEEFAALEER.Y	2	15.4	15.9	19.1	19.4	14.6	16.0	19.2	18.3

MSMEG	MSMEG	K.RPIADVQLPEPAVEPEAPP									
_2424	2423	AR.D	3	109.4	124.8	80.1	92.6	117.6	127.5	51.2	104.3
		R.IDTTGLPAVGDDATIPR.D	2	54.4	60.9	54.9	63.1	49.7	66.5	49.1	75.7
MSMEG	MSMEG	K.LITAIVKPFTLEDVK.T	2	6.0	8.6	217.5	240.9	6.2	4.7	435.6	320.7
_2426	2425	K.LITAIVKPFTLEDVK.T	3	17.6	13.5	518.6	431.2	16.2	17.1	689.0	683.8
		K.TGLEQTGILGM#TVSEVQ									
		GYGR.Q	3	11.8	11.8	119.6	95.5	13.3	16.2	85.0	95.0
		K.TGLEQTGILGMTVSEVQG									
		YGR.Q	2	2.7	5.2	258.9	276.0	2.2	1.8	254.6	215.2
		K.TGLEQTGILGMTVSEVQG									
		YGR.Q	3	9.9	9.5	212.4	175.6	5.4	7.5	183.3	193.8
		K.VRVVEVVVDDSAVDK.V	2	1.3	1.2	33.1	30.0	2.0	1.7	63.3	41.9
		K.VVDVIVQAAR.T	2	3.2	3.1	92.2	79.0	2.1	1.8	87.6	64.2
		K.VWVSPVETVVR.V	2	70.1	80.6	1613.5	1942.6	64.8	66.4	1898.8	1824.7
		R.GAEYSVDFVPK.V	2	30.4	21.7	39.6	31.6	24.8	30.5	48.9	54.0
		R.VEVVVDDSAVDK.V	2	0.9	1.4	42.5	48.4	0.6	0.4	35.1	24.4
		R.VEVVVDDSAVDKVVVDVIV									
		QAAR.T	3	0.2	0.5	34.2	30.9	0.8	0.7	80.1	86.1
MSMEG	MSMEG	K.LWYPLWDANIR.L	2	0.4	0.4	60.8	67.0	0.1	0.1	91.3	105.1
		K.VAGEDISVGLAMLDVR.H	2	10.1	9.1	118.2	140.7	15.5	12.3	126.0	117.9
		R.AGEILAAVPANHPAPPR.									
		L	3	0.4	0.1	120.0	109.3	1.1	0.5	137.7	146.6
		R.DALLDLYEFWLTTK.A	2	4.1	9.5	9.6	19.7	2.3	9.6	7.1	15.0
		R.ELLAQHADAEIGAALR.I	2	3.6	3.5	179.7	202.5	3.7	2.1	92.3	175.9
		R.ELLAQHADAEIGAALR.I	3	0.7	0.3	43.8	48.5	0.2	0.7	66.7	47.3
		R.HIAGDADLSSLLVGGAR.R	2	14.2	16.3	647.1	572.9	6.8	11.1	888.1	902.3
		R.LLWADGSNPGEIVQIR.T	2	6.7	8.3	95.5	99.9	4.1	5.6	132.4	109.4
		R.PANDLAAAVSQLLTGGPR									
		.Q	3	0.0	0.1	28.2	30.2	0.2	0.0	28.9	24.3
		R.VAAASATTGLPIAVSTLSR									
		.L	2	0.4	0.2	229.1	219.5	0.3	0.5	189.6	242.9

		R.VSRPDLLLLGALC*HDIGK.									
MSMEG _2435	MSMEG 2433	G	3	0.2	0.1	26.6	24.7	0.4	0.1	32.5	33.6
		K.EEPSLIQIDSER.A	2	732.0	563.2	489.8	365.3	793.1	911.5	436.2	482.4
		K.KDEAAEAPAEAEEAPAEA ADAASES	2	388.7	467.1	335.0	410.1	543.4	585.4	441.3	467.6
		K.KDEAAEAPAEAEEAPAEA ADAASES	3	477.7	630.3	386.6	477.3	542.2	688.8	412.8	528.0
		K.LDLFNAALAEAESGTTAA ATTPK.K	2	576.8	727.7	404.1	464.2	728.6	738.8	486.0	443.3
		K.LDLFNAALAEAESGTTAA ATTPK.K	3	1150.0	1103.6	649.7	627.8	1204.9	1356.7	631.3	646.1
		K.PSKLDLFNAALAEAESGT TAAATTPK.K	3	27.1	33.1	56.7	92.4	202.9	201.3	282.6	288.5
		R.AQYWLGVGAQPTEPVLA LLK.I	2	610.1	647.0	550.6	573.1	706.1	704.9	592.4	584.7
		R.AQYWLGVGAQPTEPVLA LLK.I	3	297.0	252.0	196.9	166.4	248.1	283.7	155.7	159.2
		R.YHPKEEPSLIQIDSER.A	3	12.2	12.8	31.1	44.6	58.9	65.1	65.6	78.3
MSMEG _2437	MSMEG 2435	R.EILVPFVGAIUTSVSR.Q	2	10.3	11.9	17.0	17.9	10.7	13.5	12.9	12.4
MSMEG _2440	MSMEG 2438	R.DDIPTFSPGDTVNHVVK.V	2	383.5	397.8	227.3	235.3	441.2	394.7	233.2	185.9
		R.RQGGGISETFTVR.K	3	3.1	2.6	3.4	1.4	11.9	10.8	2.4	2.8
		R.TFPVHSPNIDHIDVLTR.G	2	101.4	88.5	37.9	32.8	138.0	115.3	40.5	27.6
		R.TFPVHSPNIDHIDVLTR.G	3	659.7	839.3	337.0	418.9	810.7	781.6	333.8	316.3
MSMEG _2443	MSMEG 2441	K.DIVGQFSYVVETER.R	2	45.5	50.4	28.7	29.9	41.4	37.9	25.4	23.1
		K.DVNIEEVEKPELR.L	2	33.1	36.9	54.1	57.8	35.3	35.3	53.4	42.4
		R.FYLANSVELIPR.N	2	36.6	40.5	30.8	32.0	39.3	42.1	31.0	30.5
		R.NADGEVYFELR.L	2	7.7	8.8	2.6	5.1	8.0	9.6	4.6	3.7
MSMEG _2450	MSMEG 2446	R.SSFYAETEEQESQR.A	2	23.2	19.8	2.2	2.6	26.3	23.8	1.5	1.8
MSMEG _2468	MSMEG 2467	K.IAELTESGTATGSAQK	2	11.8	12.0	7.6	9.0	8.6	10.3	3.8	5.8
MSMEG _2511	MSMEG 2512	K.AFIEVAGPDDELELK.A	2	269.9	289.1	116.1	116.4	153.9	170.6	101.7	101.0

		R.LVLGGNNAGSGTGFGTF									
MSMEG	MSMEG	KPSEFSDSYVK.L	3	121.7	135.6	50.6	60.6	106.9	113.0	44.8	49.9
_2516	2520	R.LHTGTLVNNDLR.H	3	27.1	18.9	1.9	1.9	5.0	3.6	3.1	2.6
		R.LTHFGPAGLLDR.I	2	68.6	65.6	135.2	157.5	32.9	41.0	132.5	141.4
		R.LTHFGPAGLLDR.I	3	98.0	94.1	9.0	5.4	31.4	30.1	9.5	7.0
		R.VADIAGLAGFSHNHDATEI									
		R.L	3	129.0	161.7	49.7	55.5	76.3	75.3	61.3	53.4
MSMEG	MSMEG	K.ETVAHGGTVLFVGTK.K	2	182.9	205.5	323.6	443.3	80.0	67.6	90.3	108.9
_2519	2522	K.VIASAVAEGLQAR.A	2	41.4	30.8	10.7	11.3	30.0	32.2	16.3	18.2
		K.VPSAVWVVDTNK.E	2	230.5	176.9	127.6	123.9	127.0	132.9	83.9	119.7
		K.VPSAVWVVDTNKEHIAVG									
		EAR.K	4	79.9	83.4	25.7	26.0	178.3	173.3	84.0	101.8
		R.LKELEAMEQTGGFEGR.T	2	341.2	317.8	301.7	310.8	229.9	211.0	122.8	145.8
		R.LKELEAMEQTGGFEGR.T	3	279.9	272.8	208.4	213.5	201.9	206.2	110.9	120.8
MSMEG	MSMEG	K.ISGQDTAQLTESQFAALR.									
_2524	2527	H	2	1.6	0.6	116.1	133.8	0.3	0.9	147.9	141.0
		K.STLLNIIGGLDRPTK.G	3	0.0	0.0	25.8	24.0	0.0	0.0	32.8	40.3
		R.ATELLEMVGLGHR.I	3	1.5	2.5	18.5	16.6	3.8	2.6	22.8	15.1
MSMEG	MSMEG	K.VSQDDALAHЛАVFDLTNQ									
_2525	2528	DEAQK	3	25.9	33.8	472.9	452.2	20.5	27.6	483.0	466.9
MSMEG	MSMEG	K.AGNYTEQFMFDADNRPA									
_2526	2529	FTEFR.Q	3	9.4	7.5	198.9	174.2	5.8	10.8	235.7	223.7
		K.DVIPVM#VQEHSVYDR.A	2	0.2	0.3	43.0	38.8	0.2	0.1	41.8	46.7
		K.DVIPVMVQEHSVYDR.A	2	1.8	1.3	367.1	331.1	2.0	0.5	423.2	385.4
		K.FVM#IQLAEPEKNEK.L	3	4.0	3.0	24.1	26.4	1.5	0.2	29.5	31.6
		K.FVMIQLAEPEKNEK.L	2	6.1	9.1	41.6	30.7	3.6	5.1	85.4	49.1
		K.FVMIQLAEPEKNEK.L	3	11.1	13.1	181.2	162.8	7.4	11.5	237.4	210.3
		K.IEITQPDGPSFTVDGWNV									
		TWQK.W	3	17.5	16.9	27.0	34.2	23.9	22.6	14.0	35.6
		K.LIYEAIVDLGAR.V	2	0.6	0.8	99.3	74.9	0.1	0.4	173.2	150.5
		K.LNEFGAPVGYK.I	2	0.1	0.4	66.6	53.7	0.3	0.3	48.5	53.5
		K.LTFVGMDVPR.R	2	10.6	11.1	226.1	207.7	5.8	9.4	244.5	226.8

		K.LTGVLTTSIPEGETPR.W	2	0.5	0.5	1009.6	965.3	1.1	1.0	1125.5	1014.7
		K.M#VAPGMYGPNHQHFFN									
		FR.M	4	12.8	9.9	23.4	26.7	10.5	11.8	9.0	16.5
		K.MVAPGMYGPNHQHFFNF									
		R.M	4	0.0	0.1	15.2	18.7	0.2	0.1	23.5	28.2
		R.AALSEM#VVPYGDSSPTH									
		WNK.N	3	4.0	4.1	53.6	55.8	0.1	0.9	43.9	55.7
		R.AALSEMVVPYGDSSPTH									
		WNK.N	3	6.0	9.2	210.4	238.4	4.6	8.1	230.5	237.4
		R.EGLTLHEITYNDR.G	2	81.2	91.1	129.5	105.6	81.2	82.3	173.8	110.9
		R.FPSYLVEHM#TGVEEK.V	3	0.0	0.0	34.5	36.7	0.0	0.0	44.0	46.5
		R.FPSYLVEHMTGVEEK.V	2	118.5	102.5	236.2	237.6	125.9	71.4	284.9	301.4
		R.FPSYLVEHMTGVEEK.V	3	7.8	7.9	115.7	123.1	2.8	4.2	132.4	146.9
		R.FVQHNLWVTK.Y	3	0.0	0.2	3.8	2.6	0.0	0.1	4.7	5.7
MSMEG	MSMEG										
_2528	2531	K.GATPFDVETLEAALTR.L	2	98.6	88.0	228.1	221.8	52.3	44.2	186.9	151.2
		R.DVLSASTFGVGQLIASALD									
		R.G	2	35.5	36.4	94.7	92.2	10.2	13.5	35.2	46.0
		R.LVAITVPGTPIEQALR.E	2	145.9	126.2	405.4	354.7	96.5	86.8	313.1	330.1
MSMEG	MSMEG										
_2540	2543	R.SGAQVAVVIGGGNFFR.G	2	31.7	31.9	69.5	67.7	22.5	19.6	29.6	31.7
		R.TNPDAELITAISHR.E	2	101.7	101.6	79.9	90.3	113.6	111.6	82.2	78.2
		R.VQTAITMGQVAEPYIPLR.									
		A	2	76.6	79.7	105.6	110.6	59.1	63.2	86.5	87.1
MSMEG	MSMEG										
_2541	2544	K.STHTYTAQIDELVK.H	2	6.5	9.7	47.4	37.5	9.7	7.8	30.3	46.4
		R.LVVIKPYEASQLR.A	3	39.7	43.2	108.6	95.9	57.7	50.6	138.7	126.0
		R.NSDLGVNPSNDGNIIR.V	2	19.4	17.7	14.3	12.6	19.2	24.2	12.3	16.0
MSMEG	MSMEG										
_2553	2555	R.ILVATAEVLAR.S	2	10.2	10.1	9.4	11.7	6.2	6.7	3.4	5.7
MSMEG	MSMEG										
_2580	2581	K.TVPEAQIVETLIEEAMR.L	2	118.6	114.9	72.1	70.1	55.4	67.2	44.5	60.6
		K.VGNQILESLNLRPR.G	3	359.9	361.4	287.0	308.9	262.2	280.3	259.9	263.0
		R.HSQIPVIADIHFQPK.Y	3	72.5	63.6	62.2	73.3	48.9	45.7	27.4	51.9

MSMEG	MSMEG	R.IAHEYMIDHGAYPSTLGYK										
_2587	2588	.G	3	36.4	37.8	5.7	6.4	13.0	23.4	4.8	5.2	
MSMEG	MSMEG											
_2594	2595	K.YSDIVAQHFQTDHHQIR.I	3	18.5	15.8	3.6	3.0	16.6	12.5	2.0	1.2	
		K.YSDIVAQHFQTDHHQIR.I	4	26.1	24.2	14.7	12.1	9.8	6.2	3.7	4.0	
		R.VDGDPMSGVFVTDHFGAP										
		GAETGVDR.A	3	300.9	306.8	28.7	40.4	277.6	324.9	20.1	19.2	
MSMEG	MSMEG											
_2598	2599	K.VAVITGGASGIGLATGR.R	2	45.7	49.9	167.8	184.1	53.2	63.2	174.8	194.8	
		R.AEGATVVVGIDPTTGKA	2	40.3	37.1	190.3	186.6	60.6	74.9	147.4	181.4	
MSMEG	MSMEG											
_2606	2607	R.APGIFVGDLAEVLGR.S	2	8.1	9.6	26.4	22.0	11.2	9.8	21.5	21.3	
MSMEG	MSMEG											
_2613	2614	K.AVNVNEQFQVSR.Q	2	102.3	94.0	70.4	64.7	124.2	114.8	72.1	66.2	
		K.FVFGAGGGALPLLQK.S	2	103.4	90.5	64.0	51.4	163.2	128.5	75.2	63.3	
		K.GFGGFPGVGAFLR.T	2	46.5	44.4	17.6	21.3	75.3	70.0	26.3	27.0	
		K.LFEEVWSWGTK.V	2	62.5	55.9	6.6	6.0	50.7	60.8	4.9	4.2	
		K.YLIGQLLSEPAR.V	2	93.9	140.6	80.1	78.6	153.8	127.4	105.5	93.5	
MSMEG	MSMEG											
_2616	2617	R.DAPQALIDAADLVTEMTK.I	2	37.7	37.0	54.0	52.0	39.1	34.9	49.8	54.7	
MSMEG	MSMEG											
_2621	2622	K.DFPVILYQIQT.K.Y	2	178.0	180.8	209.1	209.3	150.9	101.8	251.0	172.8	
		K.DSYSFDVDDDGLK.N	2	119.1	136.5	83.1	107.6	63.1	74.2	71.9	101.4	
		K.FKDAELLGMPWIVVVGR.										
		G	3	43.1	46.3	22.2	28.0	42.3	47.5	35.3	34.6	
		K.TREPGGEWELLAVGVPG										
		DR.E	2	120.0	118.0	257.7	248.2	193.8	211.2	101.9	165.8	
		R.AGAAELVADLDR.L	2	185.0	170.0	175.7	169.9	165.6	130.7	241.7	181.9	
		R.AVPGIYSWLPLGLR.V	2	157.9	152.2	170.1	159.5	187.5	152.2	293.1	243.0	
		R.DFTPDGTIAAEVR.D	2	263.9	248.6	447.0	450.1	206.9	204.3	452.3	600.7	
		R.GIEIGHIFQLGR.K	2	50.3	47.9	111.6	104.0	38.0	36.2	107.3	108.2	
		R.GIEIGHIFQLGR.K	3	58.1	44.1	36.0	27.6	57.9	45.8	68.6	51.9	
		R.GWADGVVELR.N	2	73.2	66.4	62.0	59.1	63.5	53.3	88.1	81.3	
		R.KYTDAFSADVLGEDGKPL										
		R.L	3	136.9	135.8	137.9	153.5	119.8	109.4	151.9	183.8	

		R.AEYENMQAPVVGVR.L	2	61.9	55.4	30.9	30.1	39.7	33.2	25.1	21.5
		R.DGYEC#GLTLTYNDIK.E	2	22.7	21.8	38.3	40.7	15.0	19.3	33.4	37.2
		R.DGYEC*GLTLTYNDIK.E	2	22.7	21.8	38.2	40.7	15.0	19.3	33.4	37.2
		R.DNVVVAQNLTVSSLR.R	2	260.9	244.4	176.1	165.7	288.4	234.6	207.0	182.8
		R.GQGGNGASAPAAPKPGA									
		PAPSPATAAK.P	3	9.0	9.4	6.1	6.7	7.2	7.4	6.6	6.5
		R.ISLEDLDSALK.E	2	160.4	143.2	93.6	91.7	149.5	126.6	108.1	88.9
		R.ISLEDLDSALKETSQLNLIL									
		K.G	3	2.1	2.3	2.5	2.3	12.7	9.2	12.6	8.0
		R.VGNNPFSTQQPADRPIPR									
		.P	2	8.2	6.4	2.5	3.7	10.8	5.7	5.7	2.4
		R.VGNNPFSTQQPADRPIPR									
		.P	3	518.7	417.8	482.3	364.2	433.9	306.5	397.8	338.0
MSMEG	MSMEG										
_2641	2640	K.ELGDTTELPDISPK.W	2	387.6	370.7	292.4	282.7	287.2	290.7	315.4	308.8
		R.AGLVTEVVVAHDDLTAAR.									
		R	2	56.5	60.5	59.8	59.8	36.4	36.1	71.2	87.3
		R.IDALQTGGALWAEAEAAR									
		.Q	3	84.5	95.6	12.2	12.5	36.2	40.3	20.0	12.3
		R.MSLTGDYLSAQDALR.A	2	157.7	185.0	105.8	116.8	106.4	117.4	117.3	117.9
MSMEG	MSMEG										
_2653	2652	R.YQAAVSVGTNPTFSGR.T	2	13.6	13.2	15.5	15.6	12.5	17.5	10.9	10.8
MSMEG	MSMEG	K.EILGQYGLHDTDTGSPEA									
_2654	2653	QVALLT.K.R	2	74.6	66.3	19.8	17.7	77.9	73.3	21.2	17.4
		K.EILGQYGLHDTDTGSPEA									
		QVALLT.K.R	3	2002.9	2069.0	968.7	1006.9	2205.0	2215.0	1131.9	1114.5
		K.KEILGQYGLHDTDTGSPE									
		AQVALLT.K.R	3	82.5	76.4	20.1	19.1	81.1	84.7	18.2	24.4
		K.KEILGQYGLHDTDTGSPE									
		AQVALLT.K.R	4	109.2	0.0	46.2	0.0	109.9	130.6	54.2	61.4
		K.RIQDLTEHLK.V	3	5.2	3.5	0.7	0.3	6.2	5.4	0.9	1.4
		K.YVAQVDVAR.Y	2	8.1	6.2	2.7	1.9	9.2	6.7	3.2	1.8
		R.GLLLLVGR.R	2	228.8	170.6	90.4	67.1	212.9	205.9	88.1	82.3
		R.RGLLLLVGR.R	2	45.4	32.0	6.8	4.4	61.2	58.1	16.1	13.5
MSMEG	MSMEG										
_2656	2655	K.ALC#AAQQELADR.A	2	5.1	4.5	4.0	4.4	3.9	4.8	3.7	4.4

K.APVAGIAMGLVSDDVDVD									
GK.V	2	382.0	351.3	269.1	258.9	300.2	239.7	253.3	212.2
K.APVAGIAMGLVSDDVDVD									
GK.V	3	155.8	168.4	81.7	85.5	128.3	110.0	91.8	56.4
K.DFVTALQLDTK.L	2	307.8	275.5	212.6	208.3	360.7	256.4	338.9	288.1
K.DHFDFFPLTVDEER.M	2	158.4	183.1	94.3	114.1	168.4	187.3	149.6	164.0
K.DHFDFFPLTVDEER.M	3	168.1	160.8	93.6	98.1	198.8	166.7	167.0	133.4
K.INAIANPQLPK.V	2	32.9	30.6	11.9	15.9	29.8	23.7	15.1	12.4
K.ISLVLVAEESAESAESAGD									
K.G	2	165.1	137.8	110.8	92.1	134.8	102.8	106.4	81.1
K.ISLVLVAEESAESAESAGD									
KGAEK.A	3	272.0	256.7	275.2	323.1	455.0	384.9	439.8	455.6
K.LDGIPSQVLAGALSQAK.D	2	893.1	894.8	678.7	701.0	940.7	883.7	963.7	992.6
K.LDGIPSQVLAGALSQAK.D	3	126.2	149.1	72.3	83.5	133.4	126.0	98.3	93.4
K.LRVEIADIDNR.G	3	57.8	35.9	19.0	9.5	61.0	44.4	40.8	20.8
K.TTDFGAFVSLLPGR.D	2	563.8	560.9	521.8	514.8	612.4	521.9	771.4	674.9
K.TTDFGAFVSLLPGR.D	3	20.4	21.6	2.5	4.8	28.6	24.1	10.5	11.2
R.ALSAEVAVIPR.A	2	418.3	306.1	334.5	235.8	490.2	246.9	477.8	242.1
R.ALVPVLPSIEEFPYAIR.Q	2	1542.5	1454.9	1094.6	944.3	1341.6	1537.4	1286.6	1354.2
R.ALVPVLPSIEEFPYAIR.Q	3	117.7	151.4	75.9	104.6	99.4	124.3	100.2	111.5
R.AVFDMVVAGR.I	2	279.3	197.8	159.6	113.9	302.3	169.3	238.4	128.1
R.GETQILGVTTLDM*IK.M	2	132.4	134.8	85.7	91.6	106.3	99.3	107.2	94.5
R.GETQILGVTTLDMIK.M	2	550.3	531.4	478.2	440.5	612.4	453.1	639.3	490.4
R.IALIDGTWVAFPTVEQLER									
.A	2	527.7	527.9	406.6	386.9	470.2	591.9	481.3	577.9
R.LAQQAAAGSAVAYLDDETM									
*LLSATTA.N	3	136.4	146.1	74.7	78.3	116.6	104.9	62.8	70.7
R.LIDRPLRPSFVDGLR.N	4	14.4	13.9	7.0	8.6	7.8	9.5	4.2	6.7
R.LTILDVMAEAIDRPDEM#S									
PYAPR.I	3	101.5	109.4	63.6	64.0	70.3	73.2	57.9	66.0
R.LTILDVMAEAIDRPDEM*S									
PYAPR.I	3	101.5	109.0	63.6	64.0	70.2	73.1	57.9	66.0

		R.LTILDVMAEAIDRPDEMSP									
		YAPR.I	3	354.1	467.6	249.2	315.7	215.9	356.6	208.7	328.3
		R.LTILDVMAEAIDRPDEMSP									
		YAPR.I	4	11.9	23.1	1.9	7.4	7.1	10.7	2.6	5.1
		R.PLRPSFVDGLR.N	3	60.3	33.5	17.6	4.2	39.6	9.1	11.0	0.7
		R.TDEIKVEVLER.L	2	123.1	94.8	228.0	195.3	123.4	90.2	261.5	176.3
		R.TDEIKVEVLER.L	3	26.7	21.0	4.8	2.9	30.7	30.2	10.1	11.3
		R.YMHYNFPPYSTGETGR.									
		V	3	165.5	163.4	102.2	105.9	86.8	119.9	72.4	105.2
		R.YVALTDILGAEDAFGDMD									
		FK.V	2	235.7	242.6	161.2	163.6	173.7	201.9	144.7	181.9
MSMEG	MSMEG	K.TGSGDYGSTNDVGIAYGP									
_2658	2657	QGQR.I	3	26.8	25.9	10.3	9.6	12.6	21.3	5.3	12.1
		R.NNASIGIYAVDLDNSR.T	2	39.8	46.6	4.4	10.8	16.7	27.6	6.0	9.5
		R.WETELNSAVPGDPR.D	2	40.2	47.7	8.2	10.9	28.2	34.6	11.3	12.8
MSMEG	MSMEG	R.KGLPPNPDATSTGLDGAR									
_2664	2662	.G	3	5.4	4.0	2.8	2.2	5.3	5.8	3.4	4.5
		R.KISGLQGLTVGIEPLLDLS	2	82.5	83.5	84.7	84.9	75.9	74.1	99.8	93.6
MSMEG	MSMEG	K.AAHLPSAIDGPTVGSSPLK									
_2667	2666	.L	3	114.1	90.4	146.0	147.8	63.9	58.2	198.0	228.7
		K.GTSVGGIMLAMVESVDHV									
		TETANR.L	3	30.9	27.8	12.8	15.0	11.2	11.2	6.2	6.4
		R.DTGFGENPATLAYAR.S	2	34.6	39.8	31.7	37.8	15.4	21.6	17.4	22.9
		R.LPDVPIVALVETAR.G	2	112.5	115.3	304.6	334.9	70.0	59.7	158.5	164.0
MSMEG	MSMEG										
_2669	2667	K.LAGFGYVVLPDVYYR.I	2	328.9	364.1	129.8	137.2	49.0	59.1	76.7	104.9
		R.IAVEDDPDSPHLLADK.I	2	243.6	182.8	93.4	73.9	67.5	71.2	90.6	89.7
		R.IAVEDDPDSPHLLADK.I	3	588.3	526.7	217.8	204.5	133.5	153.1	206.0	238.3
		R.IPNWGPINLNTVFSQDQE									
		R.K	2	403.1	432.0	135.0	123.5	110.0	128.6	141.0	146.3
		R.VAAALSFHGGR.I	2	13.0	9.7	7.8	6.4	2.8	1.7	7.4	8.1
MSMEG	MSMEG	R.LIWAQSTSGIIGR.D	2	37.5	38.5	62.0	58.4	21.7	26.4	51.6	64.4
MSMEG	MSMEG										
_2684	2682	R.DMLTAFNSGDVATAR.K	2	85.6	88.9	67.3	66.4	117.2	112.4	71.0	77.0
		R.KINVNLAPLAAQAR.L	2	20.1	19.0	846.4	966.7	32.4	28.4	923.1	965.0

		R.LPQIPATTEEVEALAADM									
MSMEG	MSMEG	R.A	2	102.5	109.5	221.7	200.2	93.4	92.1	444.0	398.3
_2688	2686	K.THGGAPAIGALFGAIGSLL									
		DGAPDIK.T	3	58.5	57.4	26.0	25.7	23.2	29.7	22.7	29.1
MSMEG	MSMEG										
_2698	2697	R.DYFDYLDIFK.A	2	64.5	66.8	65.2	64.6	56.8	60.2	57.1	52.4
		R.GLLGM*VVP SLR.A	2	36.0	34.6	31.4	28.2	26.9	28.2	20.6	19.5
		R.GLLGMVVPSLR.A	2	36.0	34.6	31.4	28.2	26.9	28.2	20.6	19.5
		R.TDVLTFGPLR.V	2	101.9	92.5	87.2	85.3	92.5	91.0	82.6	75.2
MSMEG	MSMEG	R.AEIEGEMGDSHVGLQAR.									
_2723	2725	L	2	16.0	8.4	2.7	0.5	2.5	2.6	0.2	0.4
MSMEG	MSMEG	K.EKVDFAGPYLITGQSLLVR									
_2727	2729	.A	2	31.8	37.2	68.4	77.9	51.2	53.2	93.9	105.5
		K.EKVDFAGPYLITGQSLLVR									
		.A	3	78.2	76.0	143.0	144.9	139.1	135.8	192.2	177.7
		K.NGAVDALTTDEVILAGYAA									
		QSPGTFK.L	3	226.6	284.7	2689.8	3302.0	571.9	658.1	2356.4	2754.9
		K.NLGPAGIQAPQPPAVDRD									
		-.	2	1.1	3.9	127.7	129.4	3.6	4.3	150.8	115.3
		K.NLGPAGIQAPQPPAVDRD	2	158.0	150.1	685.0	721.0	247.0	237.9	381.3	411.8
		K.QPDGTLTGF D VDVA K.Y	2	42.1	43.7	96.5	92.5	55.7	54.3	104.0	96.9
		K.VDFAGPYLITGQSLLVR.A	2	237.0	250.2	468.7	451.7	312.2	309.5	500.4	478.9
		K.VDFAGPYLITGQSLLVR.A	3	11.6	14.3	29.1	26.9	21.3	20.9	20.8	27.3
		K.YVANELGYSEDQIEWK.E	2	131.5	135.4	256.6	268.5	199.8	216.3	309.5	319.3
		R.IKDEYPGVQLQQYDTYSA									
		C#VEALK.N	3	145.6	141.5	270.8	251.8	263.5	229.3	384.4	337.3
		R.IKDEYPGVQLQQYDTYSA									
		C*VEALK.N	3	144.7	141.3	269.9	251.1	261.4	228.5	379.8	335.3
MSMEG	MSMEG	K.EALAAAEDIAANSTQWK.									
_2731	2734	A	2	92.2	90.4	79.0	49.8	87.4	75.6	83.4	63.9
		K.SAAAALAESLPTASVLGD									
		VDALSAR.L	3	87.2	97.0	107.0	110.0	110.1	90.2	145.5	119.0

		R.AEALADSTDWGATSAAF									
		R.D	2	165.0	167.5	70.9	93.9	155.2	147.1	84.3	104.5
		R.LSSILEQADEAAQNER.A	2	172.9	160.5	178.8	193.1	201.5	175.6	188.4	191.3
		R.VDPDGTWVLITGSGER.V	2	528.0	674.5	371.1	534.7	479.1	547.0	214.6	337.1
MSMEG	MSMEG	K.DLQIPDDPASAIAAAR.R	2	22.5	22.8	89.7	81.6	37.6	35.2	87.5	80.5
_2739	2742	R.YRDEDAAGVSDADPYAP									
		GADTR.A	3	20.0	20.6	19.5	20.1	18.7	26.4	11.9	17.3
MSMEG	MSMEG	R.ELVGEGSLFLLK.V	2	14.6	12.3	52.8	27.4	17.3	16.2	19.6	21.6
_2740	2743	R.FTTVETAVLAVVK.R	2	25.9	24.5	35.6	32.1	21.2	24.1	35.2	27.7
MSMEG	MSMEG	K.FGNPLGVVDNSTVDPADR									
_2743	2745	.Q	2	120.7	124.1	112.2	120.9	77.1	75.0	141.0	133.0
		R.IFTPASELPFAGHPTVGAA									
		WYLR.D	3	164.3	170.1	167.4	166.3	144.1	127.5	200.4	220.1
		R.WSPEGWVQVAGR.V	2	30.3	39.0	31.0	33.2	8.9	16.6	23.2	36.4
MSMEG	MSMEG	R.LTELPVGMPVAVVVR.Q	2	79.6	85.3	171.7	184.0	110.7	93.5	248.6	239.9
_2750	2753	K.ASGDFVWDEEESEALR.Q	2	90.1	91.3	35.2	31.3	79.0	63.7	29.6	26.3
MSMEG	MSMEG	K.RIEAGLYATQK.L	2	0.5	0.4	0.3	0.1	0.3	0.8	1.1	1.1
_2758	2759	K.RIEAGLYATQK.L	3	1.1	0.6	0.1	0.0	0.5	0.9	0.1	0.2
		K.VALLNAEEEVELAK.R	2	240.2	221.3	158.9	124.0	219.9	166.6	151.3	122.7
		R.ELLQDLGREPTPEELAK.E	3	107.6	97.1	136.2	114.8	111.8	126.0	116.8	123.0
		R.GMAFLDLIQEGNLGLIR.A	2	101.7	98.3	75.7	72.6	100.6	98.9	77.7	75.8
		R.IEAGLYATQK.L	2	2.1	1.5	2.8	2.8	1.0	1.7	0.6	2.4
		R.IPVHMVEVINK.L	3	35.6	20.6	9.4	4.4	40.1	10.0	11.7	1.5
		R.TLDEIGQVYGVTR.E	2	232.0	250.5	166.9	181.8	182.5	190.6	138.1	119.7
MSMEG	MSMEG	K.LGVTYPGVVTGGIVR.T	2	66.2	81.1	293.5	324.7	108.2	110.4	315.0	347.2
_2760	2760	R.FKLDTQPATPEAVAK.T	2	10.3	8.7	72.2	68.8	16.4	17.2	74.3	79.2
		R.FKLDTQPATPEAVAK.T	3	53.9	58.3	108.8	106.9	56.0	66.4	116.9	124.5

MSMEG	MSMEG													
_2762	2761	K.STPTDPVTVVDTETER.W	2	139.3	138.5	110.1	122.9	118.7	127.2	130.0	142.4			
		K.VIAAAPGVATALR.D	2	14.6	9.4	4.0	0.8	12.1	12.2	3.8	7.0			
		R.AEVFGAAGASNDDAAGG												
		QAVR.T	2	4.8	4.5	3.3	2.5	2.2	2.7	13.3	41.4			
		R.AVAEQLADEAAELVLR.R	2	125.2	131.0	125.2	124.1	105.0	94.1	124.8	114.5			
		R.AVAEQLADEAAELVLR.R	3	24.2	24.5	13.7	17.7	19.8	20.9	16.1	20.0			
		R.LAVLRPGEHVLGEEEGGK												
		QEGR.A	3	43.2	37.8	56.5	46.5	49.5	47.6	96.4	91.3			
		R.LAVLRPGEHVLGEEEGGK												
		QEGR.A	4	129.3	136.3	127.6	131.2	126.0	138.9	127.8	148.7			
		R.RAEVFGAAGASNDDAAG												
		GQAVR.T	3	6.0	7.3	3.1	3.4	7.6	7.3	4.3	4.6			
MSMEG	MSMEG													
_2763	2763	R.RTETDDVSEDSLEELK.A	3	21.2	22.3	18.4	19.2	35.8	38.2	18.4	17.4			
MSMEG	MSMEG													
_2765	2764	K.VSLINLDPQTTPVVISR.G	2	158.7	157.1	144.4	176.1	151.5	159.0	170.4	193.2			
		R.VGLSIVNSPGTIDAGYR.G	2	167.6	179.1	79.1	93.1	116.9	125.4	46.5	54.6			
MSMEG	MSMEG	R.AAAAAQAAAQQNPAAQQ												
_2766	2765	PQQQEGERQPQPPEPVAR.R	3	26.4	38.0	46.5	58.4	15.5	25.1	29.1	45.8			
		R.AAAAAQAAAQQNPAAQQ												
		PQQQEGERQPQPPEPVAR.R	4	138.2	203.7	158.4	252.8	94.7	134.3	111.4	167.0			
		R.AAAAAQAAAQQNPAAQQ												
		PQQQEGERQPQPPEPVAR.R	5	20.9	23.3	26.2	29.7	14.6	16.5	19.7	23.8			
MSMEG	MSMEG													
_2769	2769	R.MLASLVEEAVAVGDLVR.L	2	21.1	25.2	23.3	27.2	13.6	17.9	15.0	23.1			
MSMEG	MSMEG													
_2771	2770	R.LGIPTVATVPWTTDR.L	2	93.6	96.7	273.2	285.4	95.0	110.8	189.3	237.6			
MSMEG	MSMEG													
_2776	2775	R.SYAPTIGGLAEHLAALR.L	3	12.4	14.1	1.2	1.0	13.0	9.1	2.8	2.6			

MSMEG	MSMEG	K.AAGIGLDIVPDVGPVIDNPI									
_2780	2780	R.T	2	50.0	54.4	51.1	44.7	16.2	24.8	85.2	88.5
MSMEG	MSMEG										
_2782	2782	R.ADVIDEAATFLK.Q	2	168.2	158.0	91.6	86.4	79.1	73.3	72.6	64.5
		R.ISDPVWSSVALHR.P	3	76.7	73.4	20.2	23.5	35.1	34.7	5.6	8.8
		R.ISDPVWSSVALHRPAEFN									
		K.S	4	75.8	81.2	27.3	23.0	57.1	56.8	35.6	35.0
		R.ISVENLIAK.L	2	47.9	35.0	11.2	10.7	19.5	22.5	16.6	19.5
MSMEG	MSMEG										
_2784	2785	K.LSLTDDEWR.E	2	17.7	11.5	45.6	37.0	14.7	18.5	55.2	47.4
		R.YC#INSISLR.L	2	10.4	7.3	3.9	1.4	19.0	20.1	4.5	8.0
MSMEG	MSMEG										
_2787	2788	R.IENYSGVQLSVPQR.Q	2	54.6	61.5	62.9	58.4	49.4	55.4	72.3	73.7
MSMEG	MSMEG	R.GVSIAATSNTLPEQLGEG									
_2788	2789	R.F	2	44.0	54.5	149.5	157.3	40.4	50.8	136.7	127.6
MSMEG	MSMEG										
_2789	2790	R.LGAGIENDYVMVRPV	2	16.4	0.0	12.0	0.0	7.6	8.6	9.0	14.1
MSMEG	MSMEG	K.LTGSAPEHVIDVVDLGAG									
_2800	2802	LLGWGDPK.V	3	90.8	98.0	101.0	112.8	82.3	103.0	108.8	116.5
MSMEG	MSMEG										
_2839	2841	K.LMISASVDAR.I	2	10.8	10.5	253.5	241.6	10.0	11.7	155.5	214.2
		K.SIGVGQYQHDVTPGSLAR									
		.S	2	32.7	26.9	38.0	38.6	29.5	37.2	28.9	55.1
		K.SIGVGQYQHDVTPGSLAR									
		.S	3	158.6	144.1	31.6	35.8	151.8	165.2	30.4	41.7
		R.AGVTLAELEGDR.T	2	84.3	78.5	9.6	11.5	118.7	89.8	11.8	12.6
		R.ELPDLDVTVR.G	2	63.1	51.6	19.8	34.9	79.0	68.8	28.0	24.9
		R.IRDGEDPLDASGVHPESY									
		PVVR.R	3	64.6	61.9	10.1	15.7	63.2	85.2	10.9	13.6
		R.LLADPNLVPEEVAGEFLN									
		ENVADAAAALEGAR.H	3	40.2	70.3	4.5	11.2	21.6	74.6	1.3	13.2
		R.PAFSTATFAAGVEK.V	2	146.4	137.6	53.7	80.6	222.1	210.0	61.5	69.0
		R.RLQDPLAELVK.I	2	16.6	12.1	142.5	145.2	34.0	24.4	74.0	90.7
		R.SLDAVVEDAVNAVGVDLN									
		TASVPLLAR.V	3	43.5	65.7	6.5	12.8	32.9	68.9	4.5	16.9
		R.TTLGLDPGFR.T	2	11.5	10.7	1.9	3.4	8.6	10.5	2.3	3.2
		R.VSGVTESLAEAIVAH.R.E	3	89.7	76.8	8.4	7.5	122.5	92.0	13.1	7.1

MSMEG		MSMEG									
_2897	2903	K.ATAVSVLEAAGHTVR.E	2	5.5	8.5	8.9	10.6	2.8	2.9	9.1	9.0
		K.ATAVSVLEAAGHTVR.E	3	13.6	12.1	6.1	7.0	10.7	8.6	13.0	10.3
MSMEG	MSMEG										
_2900	2908	R.AAVVFADALGLDR.V	2	17.6	14.0	11.4	13.0	16.0	14.0	3.4	3.8
MSMEG	MSMEG										
_2931	2941	K.DYGLDDYYLELSTK.D	2	74.1	77.0	208.3	219.5	60.2	52.1	215.6	193.4
		K.HLEAGYEFVNTPHITK.E	3	131.0	122.7	100.4	97.4	101.2	129.9	88.1	135.5
		K.VPFMILLAGDKDAEAGAVS									
		FR.F	3	53.7	60.2	35.5	27.2	52.1	38.9	69.5	37.0
		K.YVGSDEIWEETATLR.E	2	170.3	165.6	154.2	141.4	135.4	126.6	174.0	161.8
		R.EVAEASGLDLVPDPGGAA									
		FYGP.K.I	2	118.9	123.4	87.1	93.4	88.5	87.2	106.5	104.5
		R.IYGTAWESQEALDR.H	2	211.2	202.1	186.9	195.7	151.4	168.4	163.2	193.2
		R.LFEFGSVYR.Y	2	109.1	97.3	90.0	93.4	103.4	74.1	130.8	108.1
		R.LLEFVLSLLK.D	2	19.0	23.3	11.9	15.8	22.3	18.5	20.6	18.6
MSMEG	MSMEG	R.NGGNMADPGSVAYLFSR.									
_2940	2951	K	2	143.0	150.5	21.5	24.3	114.1	104.6	14.6	14.0
		R.VGGGDPGGNPTLYDAIQK									
		.A	2	238.9	223.8	119.5	102.2	205.6	227.0	60.7	79.6
MSMEG	MSMEG	R.TTIVRPGLTNDAGTGLV									
_2941	2952	R.I	3	48.2	57.2	55.2	66.8	43.4	48.3	64.8	74.5
		R.VLVAVLDAPQTAGR.T	2	84.6	93.5	105.0	124.6	74.5	75.2	127.2	122.6
MSMEG	MSMEG										
_2942	2953	R.HFYGGVLGLPQGR.S	2	27.4	0.0	152.3	0.0	16.6	14.8	156.3	137.4
MSMEG	MSMEG										
_2956	2165	K.IGPDKDIPHVTADVIVK.Y	3	25.8	25.0	464.4	403.8	0.4	0.2	423.6	342.7
		K.IGPDKDIPHVTADVIVK.Y	4	27.5	27.6	9.2	8.1	0.2	0.2	9.2	7.4
		K.LEAVFGDSPLVR.Q	2	127.3	112.2	23.9	20.4	15.1	16.2	33.5	33.0
		K.RPEITAEMFDEDGYYR.T	3	31.0	30.5	2.8	2.4	15.3	11.6	2.8	2.6
		K.VIASSVDFLADAVALVESG									
		PAPSR.L	3	21.1	23.6	0.7	0.9	2.5	2.7	2.4	1.7
		R.ALAADHLEVIA GDKGEAD									
		LGLDHDTWQR.L	4	32.3	22.7	2.9	2.1	2.6	2.2	1.0	1.6
		R.FVSALTGSAPISAEMK.S	2	133.2	140.2	220.6	230.5	4.3	4.4	152.2	152.6

MSMEG	MSMEG	K.GVPDYLPPDSAQFVAVR.									
_2975	2988	D R.AGYGDIELPIFEDTALFAR.	2	117.7	114.4	85.6	86.3	81.6	80.2	119.6	101.6
		G R.ELLQEFLFK.L	2	183.9	191.3	191.7	181.1	138.9	139.8	211.0	246.7
MSMEG	MSMEG	K.ALIAEQLDLFPALK.E	2	0.1	0.0	26.6	30.3	0.0	0.0	8.9	19.5
MSMEG	MSMEG	K.AIQDNADGVSFDAPEGK.V	2	25.1	15.9	218.2	167.5	16.8	22.6	243.7	279.7
_2982	2994	K.ASETDAANAESC*VDTSG PTIK.V K.GEDYTPLGSTDFSTIVNK.	2	0.0	0.0	68.6	62.0	1.7	3.6	76.7	90.3
		V K.LAVEEINADGGVLGK.Q K.QIELIGEDGASEPTVFAEK.	2	3.1	7.6	716.7	795.2	16.2	2.6	815.6	844.5
		A	2	94.6	129.6	1049.7	970.0	26.9	30.6	1136.1	1072.7
		K.SLYLVGSDYVFPQTANR.I K.VGSLNSLSGTMAISEVTVR.D	2	31.5	21.4	656.6	702.1	58.2	68.1	615.0	660.3
		R.IGEIRPDGLIYTVWESK.G	2	9.7	13.2	248.4	292.3	1.6	1.2	159.3	171.2
		R.IGEIRPDGLIYTVWESK.G	2	12.3	21.5	237.5	266.6	8.8	10.3	248.7	283.7
MSMEG	MSMEG	R.IGEIRPDGLIYTVWESK.G	3	11.1	14.2	373.5	331.3	7.4	9.4	456.2	429.2
_2983	2995	K.AAYDADPYAYLQK.A	2	16.9	18.9	7.8	8.4	17.0	17.4	12.3	8.5
MSMEG	MSMEG	K.AVVATIGYDLPLPLPR.I K.GLAYVLVGEDGTLGGPVA	2	85.5	77.3	1082.3	937.1	94.1	90.9	513.3	605.8
_3003	3017	K.N K.SGGGVDP LTDAPAPITPQ	2	252.3	260.6	573.6	541.7	203.9	198.6	395.1	392.3
		QR.K R.ITALLAGVDSIR.E	2	131.9	134.8	215.3	234.5	115.1	144.3	184.1	303.1
		R.LQPGSFYALPQSPQLFK.	2	131.2	119.6	138.9	150.4	162.3	119.9	164.3	135.5
		Q R.THAAGSLRPADAGQTVTL	2	223.5	222.0	200.8	186.6	222.1	198.7	192.1	199.0
		AGWVAR.R	3	772.7	824.2	82.0	99.0	330.6	425.4	70.8	105.5

		R.VFQAPYVGAVVMPGGAS									
MSMEG	MSMEG	QPR.R	3	29.6	42.8	67.3	90.7	19.1	30.6	51.8	83.1
_3004	3018	K.LYSDTAALDDFNSK.V	2	22.5	24.9	13.1	14.8	12.5	16.2	7.0	8.8
MSMEG	MSMEG	R.LSDLVEAGLLER.R	2	10.5	10.6	6.9	9.0	5.0	9.5	9.9	9.7
_3013	3027	R.DIADVAADLR.A	2	0.7	1.1	11.1	9.2	1.1	2.9	9.2	10.2
MSMEG	MSMEG	R.GAIEPWNVLGEESTAGGT									
_3016	3030	AR.Y	2	14.1	11.5	109.0	88.0	8.8	9.2	104.6	89.9
		R.HLLTDITGNTHR.A	3	0.4	0.0	4.4	0.8	0.4	0.1	2.2	1.4
		R.IVLLDGDSPAGLR.L	2	1.7	2.2	31.0	28.6	3.2	3.8	29.2	35.2
		R.LGLLELR.G	2	0.0	0.0	3.9	2.9	0.1	0.1	0.8	2.6
		R.LPAGDPVGADEDLAEDGA									
		DAR.A	2	0.1	0.5	10.7	12.2	0.0	0.8	7.7	10.4
		R.LTATDAPQPWVLDR.A	2	4.0	3.8	38.4	39.3	3.4	6.0	39.5	43.5
		R.SLVAWFWDPLR.A	2	0.3	0.1	6.4	6.3	0.9	1.0	9.3	7.9
		R.SYDTSPVNAVEAESR.R	2	14.3	14.4	20.2	20.0	27.2	28.6	16.4	20.2
		R.TATVVDADGAPTTALVAEI									
		R.D	2	0.3	0.7	15.8	18.8	0.7	0.8	11.9	13.8
		R.VTLPYTDAAWASIVDLGG									
		R.V	2	6.2	7.0	14.9	15.6	8.2	7.9	10.9	15.1
MSMEG	MSMEG	R.AEDPEYGLAFDLLSSEFD									
_3019	3033	K.V	2	26.4	31.5	62.3	67.7	24.1	22.4	59.1	54.9
MSMEG	MSMEG	K.EDFEILGPLPR.K	2	26.5	25.2	8.0	13.4	16.6	13.7	14.5	10.4
_3025	3039	K.GAACIDAALAALR.A	2	99.1	88.0	29.4	25.9	126.4	90.9	56.7	42.2
		K.LLGVEQPVMGDLIATVR.D	2	240.4	237.7	217.6	227.2	254.6	226.5	247.6	243.2
		K.LLGVEQPVMGDLIATVR.D	3	19.4	21.9	1.5	6.4	21.4	17.8	2.2	4.8
		K.RPVVSHDGLEADRVELIL									
		DR.T	4	65.5	63.8	29.4	37.3	65.8	86.7	30.6	61.6
		R.AAAVNAVAGAETVGK.V	2	7.4	4.6	8.1	7.0	6.3	5.9	8.9	10.1
		R.AL MAGLASSLK.V	2	56.0	33.0	16.1	8.9	68.2	23.8	37.2	5.5
		R.FDFNWQGPLSDDQR.T	2	124.5	131.3	41.9	50.4	127.8	133.7	62.0	66.9

		R.GEGTSKEDFEILGPLPR.K	2	38.7	43.6	14.0	9.0	37.0	46.2	7.7	12.6
		R.GEGTSKEDFEILGPLPR.K	3	66.7	62.5	21.6	23.2	86.3	68.7	45.4	32.7
		R.IAVAEETAFNR.T	2	29.5	25.8	14.8	9.6	24.7	30.7	13.6	18.1
		R.TAAIIIADGVSPGNEGR.G	2	648.9	600.0	357.1	315.7	1044.3	1080.7	374.0	341.9
		R.TPDIDEVGITTR.H	2	33.4	27.4	12.9	15.0	33.0	22.0	10.8	7.4
		R.TQIEEVTNQAVEADYEVH									
		TFVTELEK.A	3	341.6	377.7	205.5	220.7	245.7	315.2	164.5	223.4
		R.VAC#LLQGVDNVYETDLL									
		RPVIDK.V	3	159.0	223.7	121.6	155.3	162.7	179.8	106.6	142.7
		R.VAC*LLQGVDNVYETDLL									
		RPVIDK.V	3	159.0	223.7	121.6	155.3	159.9	179.8	102.5	142.7
MSMEG	MSMEG	R.ASASAHDADVDAEQLAR.									
_3026	3040	R	3	9.3	8.7	19.7	18.9	7.0	6.3	14.7	18.4
MSMEG	MSMEG	K.VAVLHQPVNLNQTAEAIR.S	3	107.5	104.5	183.4	229.1	78.6	95.4	125.4	136.6
_3033	3046	R.GDIVHVPTLLGMVDAA									
		VGGK.T	3	54.4	55.5	58.7	56.6	26.2	21.1	36.0	33.2
MSMEG	MSMEG	R.DGSDFVFMDSEDFEQHP									
_3035	3049	LPESLVGR.L	3	204.7	223.0	179.4	185.6	181.7	201.2	149.5	172.0
MSMEG	MSMEG	R.LPALPDSVGPALVAPTK.G	2	18.3	18.2	25.7	26.2	20.0	31.5	11.9	19.5
_3045	3059	K.AGVFSGDALADVDALLER.									
MSMEG	MSMEG	V	2	351.0	424.0	212.8	211.9	349.5	421.2	270.4	277.2
_3046	3060	R.VAITAQNHGFALEGAGE									
		K.F	3	102.0	123.8	115.0	142.7	42.8	72.7	53.9	72.2
MSMEG	MSMEG	K.AGEVNMVINTPYGNSGPR									
_3047	3061	.V	2	47.0	45.1	52.3	51.5	37.7	32.8	46.5	40.6
		K.ETPAC#FEPTLDYVVVK.A	2	56.1	48.9	111.5	98.7	56.3	48.9	124.0	107.1
		K.ETPAC*FEPTLDYVVVK.A	2	55.8	48.9	110.6	98.7	56.3	48.9	123.8	107.1
		K.FPGADATLTTTMK.S	2	92.6	96.7	101.5	108.2	66.1	70.3	85.9	97.7
		K.HYEDPSAADPRPSAVEVI									
		K.A	3	76.3	69.6	93.1	77.6	66.4	70.8	96.4	86.8

K.LAIGYTLDEILNDITK.E	2	45.5	52.5	49.2	50.2	34.9	42.7	50.5	57.4
K.LAIGYTLDEILNDITK.E	3	5.7	7.1	6.4	7.4	4.5	5.4	6.0	6.1
K.RLEDAGVPIVGTVFSPK.A	2	22.2	18.9	26.9	20.5	21.8	16.6	32.5	21.4
K.RLEDAGVPIVGTVFSPK.A	3	45.2	40.5	53.6	46.0	25.4	31.2	38.6	46.8
K.SQTAAYGSLPTEGTVFVS									
VANR.D	2	18.6	17.2	26.4	24.9	13.8	13.6	18.0	23.6
K.SQTAAYGSLPTEGTVFVS									
VANR.D	3	80.5	87.8	94.5	100.2	45.6	66.1	64.9	82.4
K.STGEVMGIDHDFGTAFAK.									
S	2	12.2	10.4	8.2	7.9	10.9	7.8	6.9	8.6
K.TPYHYSSYELDPAAEDEV									
APQTEKPK.V	4	185.8	214.4	219.0	237.7	112.4	129.5	167.6	185.9
R.ADGAQIDSLLGPEMK.S	2	36.6	33.1	47.7	46.8	24.7	24.9	36.4	39.3
R.AELVEAPVLDADLLR.R	2	201.5	189.0	377.1	375.6	192.9	181.9	431.1	400.4
R.AGFWTAPDPDTTVEQLLT									
NLR.T	2	34.3	32.2	45.3	40.2	15.5	25.2	23.8	39.8
R.AGFWTAPDPDTTVEQLLT									
NLR.T	3	26.6	33.9	34.3	46.1	13.5	26.0	17.1	39.0
R.DLGIAILR.E	2	38.7	33.4	40.6	34.0	28.7	27.9	38.1	36.4
R.ETVAELGLPVVVVR.P	2	16.7	17.4	25.1	29.3	12.4	12.9	25.7	27.5
R.EVGVDTGGC#NIQFAVNP									
R.D	2	38.4	39.0	49.2	47.9	41.4	38.9	57.9	54.1
R.EVGVDTGGC*NIQFAVNP									
R.D	2	38.4	39.0	49.2	47.9	41.4	38.9	57.9	54.1
R.GDIGVMSLQELHSELGSR									
.R	2	23.3	19.5	19.0	12.9	19.2	14.2	20.6	11.8
R.GDIGVMSLQELHSELGSR									
.R	3	50.1	49.2	55.6	48.7	40.4	35.9	56.5	51.6
R.GHFGEVLTAAGLPAPK.Y	2	31.5	26.6	43.9	39.5	31.8	25.6	51.0	45.1
R.GHFGEVLTAAGLPAPK.Y	3	78.4	72.1	70.3	63.4	61.1	59.7	64.5	62.5
R.GMEIVYDEETLR.G	2	68.4	73.7	95.2	94.4	45.2	49.9	80.5	80.1
R.IAADIGYPVLR.P	2	61.7	58.2	231.0	198.7	36.1	36.3	73.4	69.0
R.IYDMELALR.L	2	47.9	41.9	63.1	51.7	35.3	34.9	55.6	52.5
R.KHYEDPSAADPRPSAVEV									
IK.A	3	9.9	6.5	5.9	3.9	10.2	7.2	12.8	7.1

		R.LEDAGVPIVGTS.PK.A	2	19.8	20.8	21.7	20.7	11.3	13.9	24.0	18.5
		R.LIVIEMNPR.V	2	31.6	35.6	87.2	97.9	22.1	25.7	90.9	92.3
		R.QISALRPELAGAEAGVR.A	3	9.5	10.0	47.1	40.1	10.6	10.4	19.7	16.1
		RVMLGATITQLR.D	2	45.1	39.6	81.4	80.3	23.7	24.2	86.7	95.4
		R.YGVELIGADFEAIQR.G	2	83.9	66.0	126.5	103.0	86.1	69.3	157.9	123.9
MSMEG	MSMEG										
_3050	3063	K.AQEIM#TELEIAPTR.R	2	114.1	127.0	91.1	102.6	103.5	102.9	84.5	82.9
		K.AQEIM*TELEIAPTR.R	2	112.2	125.0	91.1	102.6	101.3	100.9	84.5	82.9
		K.QVLTDAETDEVLGK.M	2	147.0	152.7	145.8	149.6	158.8	162.0	169.1	157.4
		K.VSALLEALPK.V	2	311.2	303.5	260.4	252.7	408.1	392.0	352.4	320.7
MSMEG	MSMEG										
_3054	3065	R.LPEAEEITLAQLLER.A	2	75.3	76.7	107.1	82.4	65.4	69.1	94.4	113.3
MSMEG	MSMEG	KAAPVGLFVETFGSETVDP									
_3055	3066	AK.I	2	1623.9	1454.6	741.5	610.7	1386.7	1220.5	905.4	775.8
		K.AIGEVFDLRPAAIVR.D	2	698.0	680.6	355.9	367.0	615.5	526.7	402.6	371.5
		K.AIGEVFDLRPAAIVR.D	3	1059.1	925.7	440.2	383.7	967.2	846.4	606.6	522.3
		K.FVLGGPM*GDAGLTGR.K	2	210.9	195.0	491.7	576.0	264.2	277.4	501.2	458.1
		K.FVLGGPMGDAGLTGR.K	2	1361.3	1376.9	709.7	727.8	715.7	675.1	501.2	458.1
		K.GFDGASC#GVNVAIGAQ.S									
		PDIAQGVDTAHETR.V	3	384.0	426.3	274.4	306.8	349.6	349.6	301.9	315.3
		K.IC*DAISDSVLDALLEQDPK									
		.S	2	301.5	324.6	151.9	165.7	165.3	168.9	108.4	100.5
		K.IC*DAISDSVLDALLEQDPK									
		.S	3	227.0	219.6	77.2	81.0	137.0	124.2	74.1	62.6
		K.IIVDTYGGWAR.H	2	393.0	259.6	146.7	106.1	292.4	277.7	164.3	159.8
		K.NVVAAGLAER.V	2	9.8	6.2	2.5	3.1	9.2	10.7	1.1	2.2
		K.TQVTIQYDGTPVRL	2	1793.8	1687.2	1161.4	1103.5	1465.9	1357.7	1368.7	1348.9
		K.VVNTVLADLGHETLDTSD									
		YR.L	2	472.1	422.1	225.6	205.4	309.5	310.6	182.0	188.4
		K.VVNTVLADLGHETLDTSD									
		YR.L	3	3394.3	3103.3	1481.4	1303.9	2800.1	2650.4	1737.6	1642.3
		R.DLDLLRPIYAPTAAYGHFG									
		R.T	3	1117.1	1124.1	498.0	492.1	961.6	874.7	591.7	578.4
		R.DLDLLRPIYAPTAAYGHFG									
		R.T	4	562.3	535.6	253.0	219.8	485.5	477.8	310.0	310.4

		K.NTDIEIVAVNDLTDNATLA									
		HLLK.F	3	1458.6	1391.2	2050.7	1897.8	1187.2	1122.3	1988.8	1968.8
		K.VLNDEFGIVK.G	2	88.9	71.4	202.3	190.8	90.2	94.7	179.6	195.7
		K.VVSWYDNEWGYSNR.L	2	1676.9	1810.9	2085.9	2252.5	1088.7	1240.0	1599.7	1953.9
		K.YYDAPIVSSDIVTDPHSSL									
		YDAGLT.K.V	2	459.8	578.6	565.8	654.8	281.6	335.4	430.3	493.5
		K.YYDAPIVSSDIVTDPHSSL									
		YDAGLT.K.V	3	5939.0	5492.0	6941.5	6339.5	4640.2	4891.5	7082.3	7082.5
		R.AAALNIVPTSTGAAK.A	2	160.2	119.2	275.6	251.3	137.7	131.7	273.4	288.2
		R.LADLVALVGK.S	2	853.7	591.8	1163.5	687.3	879.2	834.0	1464.8	1344.2
		R.LPQDVSLLEGDDTIVIGDTK									
		.I	2	587.8	590.9	745.5	808.9	485.6	464.1	740.4	773.2
		R.VPIPTGSVTDLTAELAK.S	2	5700.5	5740.0	7947.2	7867.8	4565.1	4691.8	7354.0	7803.8
		R.VPIPTGSVTDLTAELAK.S	3	567.5	558.9	704.6	707.5	357.8	456.8	530.6	712.2
MSMEG _3085	MSMEG 3094	K.ALAAALVEGPDGSPGVFVS									
		DGFGVVHR.K	3	1552.4	1365.1	1051.2	976.2	1293.8	1251.3	1190.3	1090.4
		K.FAADAEAAETVAADR.I	2	336.9	334.2	320.6	305.5	235.6	223.6	230.8	227.1
		K.FAADAEAAETVAAD RIPDG									
		K.M	3	311.1	341.6	260.0	340.7	419.2	370.1	460.5	413.7
		K.GAFSVVGGGDSAAAVR.R	2	310.5	301.7	360.3	378.4	287.3	258.3	320.0	346.0
		K.GVAEAIIGATGK.G	2	26.4	15.2	6.7	6.7	21.4	20.0	20.2	6.3
		K.LAVIENLATK.A	2	27.2	20.4	13.7	21.6	15.4	10.1	16.0	22.4
		K.LSLAPVAAALGEK.L	2	502.7	432.0	600.6	550.7	437.7	384.2	671.2	585.1
		K.TLDDLLAEGVQGR.G	2	300.1	271.3	384.0	366.6	288.7	269.9	523.9	442.0
		K.TFWNGPMGVFEFPAFA									
		AGTK.G	2	161.2	184.8	162.8	202.4	63.8	81.8	66.3	99.2
		K.VLQQQLTSSTD RPYAVVLG									
		GSK.V	2	280.3	317.1	269.1	313.7	233.2	213.8	234.0	238.3
		K.VLQQQLTSSTD RPYAVVLG									
		GSK.V	3	1360.8	1323.1	1112.5	1142.5	1027.9	1167.3	1045.6	1139.0
		R.AEGLTDGDVLLLENIR.F	2	360.9	357.2	329.8	337.9	413.8	369.5	430.7	384.4
		R.HVQLAGDVVGTDALAR.A	2	336.1	400.8	376.7	331.3	352.5	375.7	462.5	478.8

MSMEG	MSMEG	K.ADAVAAAVGGADPV DIPA									
_3099	3109	AGAVGR.E	2	91.7	102.9	93.4	100.4	77.3	89.2	102.6	117.1
		R.GQATIVLTGGGTGIGLLK.									
		R.	2	91.6	81.9	985.2	982.1	70.4	63.8	1114.4	1072.8
		R.LVDAISSAIGER.G	2	125.0	98.4	125.3	99.8	110.1	104.8	141.2	143.8
MSMEG	MSMEG	R.VLTLVIAPHTEDLV EDSIEA									
_3100	3110	ANFASR.E	3	126.3	137.6	214.9	209.4	66.8	81.2	78.9	101.4
MSMEG	MSMEG										
_3101	3111	K.LMPAIYDLANR.G	2	37.2	33.4	22.7	25.9	10.9	17.1	5.4	6.8
		K.VVGLLDEEGFAK.D	2	38.1	21.9	58.3	46.2	61.0	55.7	68.3	75.9
		R.FVQGTFDDDTAFTR.L	2	132.6	131.4	71.6	103.4	140.7	131.3	85.6	94.0
MSMEG	MSMEG										
_3102	3112	K.GTAYDAQVNELAAR.G	2	61.9	54.0	225.1	165.0	69.6	84.4	128.0	166.6
		K.IHSVVASFFVSR.V	2	283.7	219.1	109.9	104.2	302.0	216.7	185.2	124.2
		K.LAAIGIDL PDVFR.V	2	572.6	547.8	350.1	333.2	498.8	446.6	347.8	304.3
		K.SWQELLDATQGQLDAAK.									
		K.	2	517.1	477.8	299.0	312.0	450.7	406.2	290.8	278.9
		K.SWQELLDATQGQLDAAK.									
		K.	3	73.3	72.8	20.8	26.9	53.0	66.0	13.6	17.9
		K.TILQAIELWK.I	2	321.9	266.4	188.0	142.0	236.7	218.8	154.3	143.2
		K.TLEAVADHG EITGNTIAGT									
		AASSQETFDK.L	3	794.1	768.9	449.1	431.3	817.9	726.0	529.2	498.7
		R.LAHD TD K TILQAIELWK.I	3	24.1	29.8	12.8	12.4	77.0	83.2	59.3	58.8
		R.LAYAAYEEVFGSDR.F	2	475.5	434.3	385.5	387.9	496.4	474.0	429.5	444.6
		R.LQTGNLTELINTR.S	2	928.6	984.8	664.8	700.1	959.5	852.9	764.0	626.3
		R.LVM DAYLEGLEK.A	2	236.9	220.7	167.4	149.4	192.6	169.2	188.1	187.3
MSMEG	MSMEG	K.AHDEWQVS FDEWAER EP									
_3103	3113	ER.K	3	78.7	91.0	53.9	80.0	33.7	49.8	23.6	45.2
		K.AHDEWQVS FDEWAER EP									
		ER.K.E	3	48.4	67.3	57.5	45.9	39.0	83.9	51.2	93.7
		K.AHDEWQVS FDEWAER EP									
		ER.K.E	4	54.5	51.8	57.2	55.4	71.1	42.5	71.2	57.3
		K.GANSFGPPSISTEDWNAT									
		WYGR.T	2	236.9	264.4	186.8	226.3	153.2	243.9	125.9	245.0
		K.GANSFGPPSISTEDWNAT									
		WYGR.T	3	180.0	222.1	114.4	168.7	195.7	171.0	80.5	141.2

K.GVEITTGPLGQGLASAVG										
MAMAAR.Y	2	129.4	122.4	108.5	112.0	107.3	111.9	104.5	121.7	
K.GVEITTGPLGQGLASAVG										
MAMAAR.Y	3	193.9	224.6	186.6	198.3	186.6	154.1	211.6	166.0	
K.ILGFDPEKNFEVR.D	2	44.1	46.9	113.3	117.1	74.9	52.8	218.7	193.5	
K.ISIEHNTDIAFSEDVVAR.Y	3	268.1	238.7	220.1	202.6	241.6	204.5	240.4	193.9	
K.LPEGWDADLPHWDLDAK.										
P	3	79.4	89.8	64.9	70.4	35.9	36.6	28.4	34.9	
K.LPEGWDADLPHWDLDAK										
PVATR.A	3	389.5	405.8	343.7	353.4	416.8	407.5	386.9	388.8	
K.LPEGWDADLPHWDLDAK										
PVATR.A	4	666.9	718.7	531.3	542.1	640.9	645.6	524.3	557.9	
K.LPELWGGSADLAGSNNT										
TIK.G	2	649.3	637.2	641.4	604.7	606.9	579.7	622.0	633.1	
K.LVGDTGEIVSIEHYGESAD										
DK.T	2	138.7	152.4	108.8	120.6	113.6	100.3	89.2	89.4	
K.LVGDTGEIVSIEHYGESAD										
DK.T	3	2751.3	2937.0	2513.6	2660.0	1595.1	2008.6	1757.9	2030.8	
K.M*NTGGVHGSALGADEVA										
ATK.K	3	10.3	8.7	5.0	4.6	2.7	3.4	1.5	0.8	
K.MNTGGVHGSALGADEVA										
ATK.K	3	50.3	39.6	39.9	32.0	33.6	34.2	29.9	34.5	
K.MNTGGVHGSALGADEVA										
ATKK.I	3	4.1	2.8	3.4	2.4	5.7	5.1	4.6	5.1	
K.NFEVRDEVIAHTR.E	3	28.0	17.9	7.7	10.5	36.1	34.1	25.9	25.2	
R.AASGAVLSAVGPK.L	2	10.5	9.2	3.1	2.1	7.4	14.6	2.6	4.5	
R.AYGGTFLQFSNDYM#R.P	2	76.4	77.5	92.4	77.5	50.4	41.4	57.7	43.0	
R.AYGGTFLQFSNDYM*R.P	2	76.4	77.5	85.4	72.7	50.4	41.4	50.3	40.9	
R.AYGGTFLQFSNDYMR.P	2	549.2	522.1	544.2	504.5	494.8	382.0	554.3	412.9	
R.AYGWHVQEVGGENVV										
GIEQALEEAR.K	3	1493.8	1530.5	1338.6	1341.2	1158.1	1267.6	1104.5	1251.2	
R.EFGFTPEAVAAAAER.S	2	1384.0	1353.7	1348.4	1351.8	1222.5	1100.5	1432.2	1225.1	
R.EFGFTPEAVAAAAER.S	3	35.3	34.5	20.4	24.3	34.4	29.0	27.2	24.8	
R.EHAM*GAILSGIVLHGPTR.										
A	3	54.8	50.7	20.8	29.1	37.0	40.4	19.4	21.9	

		R.EHAMGAILSGIVLHGPTR.									
		A	2	75.4	74.2	330.2	313.7	55.2	66.2	339.6	312.8
		R.EHAMGAILSGIVLHGPTR.									
		A	3	356.6	337.6	431.3	415.7	237.8	264.8	355.6	373.0
		R.EHAMGAILSGIVLHGPTR.									
		A	4	166.2	125.5	91.4	57.5	97.1	117.8	67.0	68.0
		R.GSSSGPVGMILTR.Q	2	111.4	69.9	55.1	30.1	141.2	44.6	96.7	20.1
		R.KVTDKPSFIALR.T	3	116.4	54.5	106.1	58.7	98.0	38.6	89.5	35.3
		R.QPIPVLLEGTDPEGVAR.G	2	114.0	116.4	403.0	403.1	136.1	152.2	299.6	359.4
		R.TIIGYPAPNK.M	2	5.8	5.7	34.2	16.9	3.8	4.9	47.6	16.5
		R.VAVEAAVAQSWYKL.L	2	909.0	845.6	1067.4	993.0	848.7	725.6	982.4	945.2
MSMEG	MSMEG	K.ADAIGVNFDITYFR.S	2	370.5	364.0	424.2	408.0	173.2	165.1	291.5	277.3
_3106	3115	K.ITVGGTYPLAEASR.A	2	643.5	600.9	449.4	418.8	270.5	307.9	266.2	320.5
		R.AGELINAIADGSIK.I	2	453.1	464.3	574.4	562.7	222.2	224.4	457.7	491.7
		R.ELPFVVGTEVC#GTVAAG									
		NDVAALK.V	3	445.2	412.4	446.9	398.6	200.0	194.3	313.1	305.1
		R.ELPFVVGTEVC*GTVAAG									
		NDVAALK.V	3	443.7	412.4	443.1	398.4	200.0	194.3	311.5	302.4
		R.GTLALFGASSGPVPPFDP									
		QR.L	2	598.0	622.1	655.5	683.4	266.9	290.9	483.9	520.9
		R.LNAAGSVFLTR.P	2	39.3	35.4	37.1	27.1	5.9	7.8	53.1	40.3
MSMEG	MSMEG	K.YGYGWADSDVAGASAQR									
_3122	3131	.G	2	68.2	58.0	6.1	2.6	51.6	61.3	5.0	4.7
MSMEG	MSMEG										
_3124	3133	K.AAMDELEIDPAFGER.S	2	119.7	111.7	68.0	74.1	142.9	134.5	95.0	96.7
		K.IAILDETDSGLVDALR.V	2	147.9	152.1	90.8	108.5	187.4	170.8	119.9	120.6
		R.HEILQLSLLKPK.I	3	34.1	29.8	11.4	12.6	37.7	30.2	11.9	13.7
MSMEG	MSMEG										
_3127	3136	R.INWVWNPPWGPDK.I	2	21.9	22.7	3.1	3.0	21.4	22.1	1.0	1.9
		R.TALVGAGLVDEL.R.I	2	38.9	36.8	34.8	31.7	42.9	43.6	41.8	43.7
MSMEG	MSMEG										
_3142	3149	K.NLSAVLDLVEASVR.Q	2	14.2	13.0	14.6	16.2	5.3	3.7	17.1	15.3
MSMEG	MSMEG	K.DHIEAIANWDPNAEPSIEI									
_3143	3151	QFTPATR.V	3	253.6	264.5	431.7	384.2	115.3	148.2	419.6	352.6
		K.DIHNYVEQNHNPTPETK.L	3	30.9	27.8	13.0	10.1	12.2	12.7	10.7	11.3

MSMEG		MSMEG		K.LSGEIKPGVTATDVVLTVT							
MSMEG _3147	MSMEG _3155	DM#LR.R	3	39.1	43.1	26.8	26.8	18.7	14.5	23.4	15.6
		K.LSGEIKPGVTATDVVLTVT									
		DM*LR.R	3	221.5	268.0	100.9	121.9	105.2	83.8	95.4	80.3
		K.LSGEIKPGVTATDVVLTVT									
		DMLR.R	2	60.2	74.9	10.9	18.8	30.5	31.6	18.4	20.2
		K.LSGEIKPGVTATDVVLTVT									
		DMLR.R	3	2424.2	3109.4	1182.8	1389.2	1215.2	1293.5	1259.4	1266.3
		K.LSGEIKPGVTATDVVLTVT									
		DMLR.R	4	64.7	90.2	14.6	23.4	28.3	34.9	17.1	21.8
		K.PGVTTADVVLTVDMLR.R	2	15.7	18.0	25.6	20.3	2.4	2.8	30.4	30.9
MSMEG _3147	MSMEG _3155	K.VLAENLLR.T	2	34.9	28.8	8.7	15.7	17.7	11.8	7.2	8.2
		K.VVPPGTGIVHQVNIEYLAR									
		.T	2	282.1	279.0	148.7	154.1	167.8	162.4	108.4	136.9
		R.ATLGNMSPEFGSTAAIFPI									
		DEETINYLR.L	3	563.0	837.9	268.0	380.8	132.5	302.7	130.9	302.3
		R.DTLTVGDQSYEIYR.L	2	2094.4	2154.7	1201.7	1198.1	1046.6	1063.9	1188.2	1202.0
		R.DTLTVGDQSYEIYR.L	3	40.6	44.4	5.0	2.1	17.4	18.1	0.5	2.8
		R.KDIHNYVEQNHNPTPETK.L	4	3.7	1.9	0.4	0.2	0.8	0.6	0.3	0.2
		R.TDEQLALVEAYAK.A	2	1993.2	1948.6	1020.1	1002.2	1069.2	1003.9	1004.9	1023.3
		R.TDEQLALVEAYAK.A	3	10.3	9.5	3.6	3.6	0.3	2.8	0.6	2.6
MSMEG _3147	MSMEG _3155	R.VIMQDFGVPC#IVDLATM									
		R.E	3	141.2	190.0	58.0	78.4	69.7	75.1	60.2	69.2
		R.VIMQDFGVPC*IVDLATM									
		R.E	2	283.7	279.2	119.0	123.7	118.4	140.8	107.7	134.8
		R.VIMQDFGVPC*IVDLATM									
		R.E	3	162.0	213.6	75.5	101.9	77.3	86.3	71.5	87.0
		R.WGQGAFDDFK.V	2	516.7	384.9	180.7	143.1	324.0	230.4	255.5	183.7
		R.DYVIPQDVVEIPDVLR.H	2	325.2	238.5	262.3	171.6	234.1	186.3	246.5	220.1
		R.IQFTPDLVPTDIVGTR.I	2	763.6	727.3	768.4	729.3	635.3	575.5	795.7	815.5
		R.LQDVAANTFVHHALVDYV									
MSMEG _3147	MSMEG _3155	VR.I	3	280.1	253.0	203.6	163.6	204.5	210.5	282.8	264.0
		R.LQDVAANTFVHHALVDYV									
		VR.I	4	99.8	63.6	31.1	24.4	100.1	93.8	59.7	61.5

MSMEG	MSMEG	K.AGVTANVVAPGYIDTEM									
_3150	3158	R.A	2	334.3	364.7	268.2	300.9	360.5	358.1	280.1	303.4
		K.EVEEHQGPVEVLVANAGI									
		SK.D	2	119.9	124.9	76.1	71.0	108.0	107.3	78.1	65.6
		K.EVEEHQGPVEVLVANAGI									
		SK.D	3	685.1	687.6	661.3	663.5	668.7	610.2	658.7	613.3
		R.FEEVINTNLTGAFR.C	2	343.6	358.2	277.7	262.5	313.1	271.9	246.4	209.9
		R.IQAGALDFIPAK.R	2	365.7	388.0	616.5	588.4	298.1	286.0	526.7	501.6
		R.IQAGALDFIPAKR.V	3	58.6	56.9	30.1	31.5	144.8	131.2	79.1	77.5
MSMEG	MSMEG	K.AVLPIMNPGGGIVGMDFD									
_3151	3159	PTR.A	2	283.6	297.4	205.7	227.1	312.2	324.2	264.5	266.1
		K.PAPLLELDVQNEEHLSTLA									
		DR.I	3	707.3	714.1	534.8	543.1	678.7	607.5	547.6	463.3
		K.VAQEAGAELVLTGFDR.L	2	364.8	355.1	368.9	376.0	486.7	389.3	485.1	415.1
		R.AMPAYNWMTVAK.S	2	159.6	167.5	132.5	144.8	170.8	189.8	170.4	182.7
		R.APLGWNMKGDPPTPVAK.T	3	24.4	26.2	30.4	48.9	97.8	92.8	109.2	96.7
		R.LPKPAPLLELDVQNEEHL									
		STLADR.I	3	147.7	153.7	93.7	80.5	229.7	217.2	147.7	140.6
		R.LPKPAPLLELDVQNEEHL									
		STLADR.I	4	177.9	150.4	86.7	66.8	238.1	228.8	137.2	110.5
MSMEG	MSMEG	K.VWLVPDSFGTALQGFTK.									
_3155	3163	M	2	70.4	59.6	185.6	225.5	93.8	89.7	152.7	140.8
		R.AAAYLQAQQQAK.A	2	5.4	4.7	6.8	5.5	5.5	5.2	4.3	4.9
MSMEG	MSMEG	K.INAVEVLSNLLTGLGA	2	4.8	0.0	141.7	0.0	0.0	0.0	0.0	0.0
_3158	3166	K.VVESFPALGADGGADGD									
		VK.F	2	48.9	55.1	115.4	135.0	71.1	80.6	72.4	102.7
		R.DPWVNMLR.T	2	2.9	0.9	3.4	5.3	8.1	4.6	1.5	2.9
		R.ILVDGGLSVPDALR.Q	2	99.1	108.1	291.9	310.7	324.4	284.9	268.0	242.3
		R.LSIDFGADPLTAPLSGR.A	2	140.3	145.7	268.8	261.0	324.5	309.9	285.3	269.9
		R.VLLLPLGPLAEHNIR.A	3	41.2	40.0	126.7	113.1	93.2	64.5	112.7	81.3
		R.YGTEASAAVAAAR.A	2	5.5	5.1	11.6	8.5	21.4	20.4	12.3	12.3
MSMEG	MSMEG	K.AGLDAGLDIDK.F	2	4.6	2.0	14.5	11.4	16.8	17.9	13.8	15.3
_3159	3167	K.AGLDAGLDIDKFAPR.L	2	1.6	2.0	136.4	160.6	31.4	38.0	135.7	157.7

		K.AGLDAGLDIDKFAPR.L	3	3.2	5.7	5.8	5.0	76.8	77.4	17.4	24.0
		K.EVAEHGGMAQAISEGIPK.									
		L	2	144.3	189.0	204.9	247.3	73.8	150.5	69.6	188.5
		K.GLSVAFDLATHR.G	2	4.4	4.7	60.0	56.8	43.2	32.9	47.9	48.4
		K.YQVDEDTEIEVLK.V	2	106.3	108.2	80.4	73.8	188.2	187.3	81.1	85.3
		R.AAAASGPAGEDGLGNLL									
		ALAIDAAR.A	2	15.4	18.6	39.4	38.1	68.8	75.3	35.0	54.9
		R.AAAASGPAGEDGLGNLL									
		ALAIDAAR.A	3	70.6	78.6	154.8	145.8	271.6	235.9	231.6	170.3
		R.AERDEAATQAALDELTR.A	2	518.2	510.2	777.9	739.8	339.7	316.6	459.2	413.6
		R.AERDEAATQAALDELTR.A	3	111.2	125.6	192.0	180.7	155.5	188.8	121.3	136.3
		R.GPYPTMYVNQPWTIR.Q	2	76.3	83.3	266.9	285.7	148.3	171.9	125.6	177.9
		R.IISDIFAYTSAK.M	2	90.0	92.2	154.4	165.2	304.9	263.0	195.9	190.9
		R.LLWSELVSEFEPK.S	2	107.6	128.2	230.8	266.6	387.7	371.0	328.8	306.4
		R.PIDPWGGSYYVEWLTHQ									
		LAER.A	3	58.4	70.5	78.0	106.8	83.5	140.9	49.0	82.6
		R.SFADVPLEGETPAAAATP									
		EAR.D	2	89.3	97.6	286.7	248.4	192.4	237.9	238.5	223.1
		R.THSQTSGWSLTAQDVFN									
		NVAR.T	3	72.8	103.1	142.4	153.6	209.7	172.8	151.0	81.4
		R.VQGDVGMAGVAIDSILDM									
		R.Q	2	30.7	29.5	39.3	43.7	71.6	71.4	39.8	48.5
		R.VQGDVGMAGVAIDSILDM									
		R.Q	3	8.7	14.7	5.7	5.8	32.6	25.9	8.5	6.4
MSMEG	MSMEG										
_3160	3168	K.STTIEALGMHLIEAGHR.V	2	3.8	3.3	1.6	2.4	5.4	4.4	2.7	1.8
MSMEG	MSMEG	K.AGEGVVNPDGTLTAGPVV									
_3169	3176	LQPEEYTSK.L	3	55.7	66.3	30.0	39.8	25.5	48.3	15.4	30.5
		K.AVELSDDVPAYGR.F	2	89.3	90.1	91.2	98.1	76.4	79.5	87.8	85.9
		K.DPDLVAAMDQVR.E	2	15.3	19.7	10.6	13.7	8.7	14.7	8.2	16.5
		K.LTVAVQDPDSLRFADLIA									
		DELNVK.A	3	33.7	43.7	104.3	115.6	24.3	33.8	34.4	91.6
		K.YTNEWQAYVTR.Q	2	46.2	45.6	39.1	36.8	35.5	37.2	28.1	33.8
		R.FGWDTHGLPAELEVQR.Q	3	33.2	29.8	30.0	28.7	23.3	27.7	23.7	26.6

		R.FWDEDPDAIDLHTVLEV									
		TC#R.L	3	14.1	19.2	5.9	10.6	14.4	13.3	6.2	7.9
		R.HETYEHSYPHC#WR.C	4	4.7	2.0	1.9	0.9	1.3	1.4	0.2	0.5
		R.IDVY GSLDELER.D	2	156.3	153.1	96.2	89.0	166.1	154.9	76.6	75.0
		R.LAAPLLPLATEVIWR.G	2	86.5	92.9	82.9	92.0	113.2	105.1	117.8	107.4
		R.LAAPLLPLATEVIWR.G	3	11.9	13.0	6.6	6.9	13.3	10.9	9.6	6.8
		R.M*VELNQQITWYPEHV.K.D	3	15.8	20.6	11.7	14.7	7.2	11.1	2.1	6.5
		R.MVELNQQITWYPEHV.K.D	3	15.8	20.6	11.7	14.7	14.6	18.2	16.0	19.1
		R.PFIDQLTRPNPDDPTGK.S	3	27.3	26.4	12.2	19.5	16.6	18.7	4.6	9.3
		R.YWGTPIPWK.S	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MSMEG	MSMEG										
_3178	3185	K.ALWDTILPFAGYAFNK.S	2	3.3	3.6	4.5	3.8	3.2	5.0	7.1	4.2
		R.GDTLGVFQLDGGPMR.D	2	27.5	25.6	14.8	14.9	18.0	19.5	23.1	20.6
		R.VAQVITFGTIK.T	2	15.7	14.9	25.4	23.4	11.7	12.3	42.7	41.7
MSMEG	MSMEG										
_3183	3190	R.ITALTAPLSAADIDEAAR.R	2	220.5	220.1	195.5	198.8	161.6	189.2	163.8	222.0
		R.LSEATGANVYLK.R	2	83.0	66.2	69.3	89.5	56.5	61.2	9.6	21.5
MSMEG	MSMEG										
3192	3192	R.ADELFAELPVALLER.L	2	53.8	64.0	48.3	51.0	42.6	39.1	69.5	53.7
		R.LVSLNEVGGEPALFGVTT									
		AEFHQR.A	3	123.1	117.7	127.6	127.5	71.2	80.2	136.0	124.4
MSMEG	MSMEG										
_3185	3193	R.FFSITSLAALR.Q	2	13.2	13.0	13.2	12.3	11.0	8.9	24.9	10.6
		R.IDHPDGLTDPAGYLAWR.E	3	19.1	26.3	5.3	10.0	21.3	13.0	7.1	9.9
MSMEG	MSMEG										
_3204	3214	K.DNVFAVILAHGK.T	2	1.3	5.1	4.3	10.6	1.1	0.7	3.2	3.6
		K.DNVFAVILAHGK.T	3	1.4	0.3	4.5	1.2	1.1	1.2	5.1	3.9
		R.ILPAGSDDPSLPR.I	2	8.6	8.1	23.1	19.5	5.3	9.6	17.5	26.5
MSMEG	MSMEG										
_3205	3215	R.ELLSQALENLADVR.A	2	40.8	33.9	30.6	28.2	53.1	41.8	57.2	48.0
MSMEG	MSMEG										
_3208	3218	R.VVVLDYGSGNLR.S	2	28.4	38.9	39.2	30.0	18.6	21.0	44.1	45.5

MSMEG	MSMEG	K.DGTLTGPNLDLLAAVAGR.									
_3209	3219	T	2	107.8	110.8	57.6	61.6	97.0	89.4	62.1	61.1
		R.GLILLPAVDVVNGQAVR.L	2	66.6	80.3	81.7	86.4	83.6	86.1	80.6	94.6
		R.GWETDGGDLWEVLDR.L	2	22.0	22.9	11.8	12.7	14.7	18.0	5.7	9.9
		R.TDAPVIASGGVSSLDDL.R.									
		A	2	156.0	160.6	108.8	123.6	141.5	154.5	107.2	113.6
		R.VAVGLDAQTDGAGGF.R.L	2	52.2	54.1	12.6	15.4	56.4	54.2	10.3	18.6
		R.VNIGTAALENPQWC#AR.									
		A	2	50.9	60.2	41.5	40.0	63.9	66.1	38.6	48.9
MSMEG	MSMEG	K.LTALVATAAEILDAASVPF									
_3210	3220	VAGHR.A	3	14.0	15.0	24.0	33.1	8.4	9.3	20.1	30.9
MSMEG	MSMEG										
_3211	3221	R.GTGIDAIIEWATR.G	2	9.8	9.4	8.8	10.6	8.4	11.5	7.9	11.7
MSMEG	MSMEG	R.AVETVTTDHVTTAFAHPV									
_3215	3225	TVTYDEGR.W	3	88.1	84.9	22.1	36.6	25.6	31.5	24.6	18.9
		RLLLLDEPTTGLDVAAR.E	2	304.1	331.5	139.3	138.8	153.2	155.4	197.6	187.9
MSMEG	MSMEG										
_3219	3229	R.FNGSLDDDAVR.A	2	18.6	14.4	4.7	5.6	25.5	34.7	2.4	8.7
		R.GALASIGDPAAELAQAYQD									
		GGAR.V	2	46.1	47.9	10.1	8.9	64.8	68.8	13.0	15.5
		R.SAVADLVTAGTHPSC#PK.									
		P	2	25.9	31.8	15.4	23.8	21.1	22.0	10.2	10.3
		R.SAVADLVTAGTHPSC#PK									
		PAR	3	277.0	306.7	9.8	14.3	340.9	325.8	10.7	16.1
		R.SAVADLVTAGTHPSC#PK									
		PAR	4	19.0	21.5	11.1	12.2	52.4	53.5	12.8	17.8
MSMEG	MSMEG										
_3220	3230	K.INNVLGQALLAR.Q	2	35.6	28.6	110.6	109.4	31.1	36.9	168.9	171.4
		R.LVPEALMAVIEEVTAAYEK									
		.C	2	10.7	14.6	14.6	22.0	2.3	7.6	4.3	10.7
		R.LVPEALMAVIEEVTAAYEK									
		.C	3	9.1	10.2	12.8	13.6	6.8	10.3	9.0	13.0
MSMEG	MSMEG										
_3221	3231	R.EVSDIPVGVGLGVR.S	2	122.8	110.8	156.8	139.5	116.6	112.3	177.2	166.6

MSMEG _3222	MSMEG 3232	K.AADETEEGDEESLVDEAG K.E R.AEPAAPAAVATAPVEPEK. G R.LGNYFNQELYGR.P	2	10.8	9.3	9.5	8.4	4.7	7.0	3.3	4.4
MSMEG _3225	MSMEG 3235	K.AQLSAAEPYEEWLHAGLL DLK.T	3	21.7	27.6	46.6	49.3	9.3	12.1	65.0	62.6
		K.GMLTTMQLPQYFLDLR.D	2	8.6	7.2	19.5	18.3	6.7	5.9	20.0	21.0
		K.LVSSVGVTVAAGVSK.A K.TGVRPPVPLEEVEPVESIV	2	34.7	33.8	84.1	88.4	16.5	14.3	115.7	103.9
		TR.F R.APIPSLLAVSAVHHHLVR.	3	76.2	80.7	164.0	152.2	39.7	47.3	216.4	209.1
		T R.EGELTGIEPAAVR.N	4	9.5	10.2	22.1	19.2	1.8	3.7	26.5	29.8
		R.FGVTSDYLVNATDIQIK.M R.GGEGLAEALDDL.R	2	27.6	27.9	62.5	58.1	13.6	20.3	78.9	80.9
		R.IVSDGLIALENLEHR.G R.IVSDGLIALENLEHR.G	2	7.1	4.9	9.7	9.8	3.1	2.9	17.7	15.7
		3	4.3	3.2	44.1	29.1	2.2	2.0	84.8	38.7	
		R.LEVGGEYAFR.R	2	16.8	14.4	39.5	38.8	6.1	7.4	56.9	55.0
		R.TLIQLAEGALEDAHPVR.L R.VC#HLDTC#PVGVATQNP	3	11.0	11.5	7.5	7.1	10.9	14.0	6.4	9.2
		ELR.A R.VC*HLDTC*PVGVATQNP	3	16.7	18.6	40.2	42.4	9.8	8.9	60.2	47.6
		ELR.A R.VILASEAGVLDVPSGEIVA	3	24.4	30.9	76.6	84.6	11.5	12.9	94.0	96.2
		K.G R.VMGPEENLLEPTAASC*R.	2	24.4	30.9	76.0	84.4	11.5	12.9	93.6	94.5
		Q R.YLAELGFR.S	2	27.3	24.6	70.6	62.5	11.4	10.4	105.1	92.9
		R.YTGSTLGTSLSDWPR.R K.ALVAFTQSGDTVR.R	2	1.8	4.8	13.8	16.1	0.3	0.9	13.6	18.0
			2	7.5	7.1	22.0	17.2	1.7	2.8	24.8	21.8
MSMEG _3227	MSMEG 3237	R.YTGSTLGTSLSDWPR.R K.ALVAFTQSGDTVR.R	2	63.5	53.3	320.8	262.6	133.3	87.3	400.5	330.9

	K.DIEDLEFAVR.L	2	129.4	115.0	159.3	166.0	176.6	166.0	182.1	160.1	
	K.GVSLPGMNVSPAMSEK.										
	D	2	766.2	920.1	570.3	586.9	746.0	783.5	292.9	362.5	
	K.IVC#TLGPATSTDETVR.A	2	20.5	20.3	29.7	26.8	32.7	35.6	40.2	48.7	
	R.AASDVTGHAVGIMADLQG										
	PK.I	2	99.1	106.3	134.6	170.8	72.6	69.7	71.9	93.9	
	R.AEASDVANAVLDGADAV										
	MLSGETSVGK.Y	3	423.2	423.6	623.8	611.9	373.9	319.4	460.7	382.1	
	R.ALVEAGMDVAR.L	2	180.1	168.5	201.3	205.3	113.7	106.5	141.7	154.8	
	R.GDLGVELPLEEVPLVQK.R	2	729.2	660.0	1166.2	1094.3	1047.4	932.3	1588.7	1422.1	
	R.IIQAVEDNSVVVPPLTHVP										
	R.T	2	110.0	125.5	249.6	333.7	119.6	127.4	296.7	310.6	
	R.IIQAVEDNSVVVPPLTHVP										
	R.T	3	1717.2	1576.3	3525.3	3703.4	1901.8	2221.3	4430.1	4188.3	
	R.IIQAVEDNSVVVPPLTHVP										
	R.T	4	40.1	39.0	28.0	36.6	51.1	53.6	42.4	44.5	
	R.LGVDLVALSFVR.S	2	79.1	74.9	117.9	112.7	128.1	124.9	151.2	159.4	
	R.SPADIELVHEVM#DR.V	3	1.8	0.8	6.9	3.7	5.2	6.3	10.0	11.4	
	R.SPADIELVHEVMDR.V	2	272.6	292.7	332.2	365.3	210.1	205.2	223.9	232.3	
	R.SPADIELVHEVMDR.V	3	145.8	131.5	161.3	144.2	131.3	131.0	138.5	128.7	
MSMEG	MSMEG										
_3234	3244	R.KLGAALSTGSPSAPPVS	2	2.8	3.2	13.5	14.6	3.6	4.6	14.8	13.2
MSMEG	MSMEG										
_3235	3245	K.AGEVFDSAPYGWPVAK.G	2	1117.6	1220.2	850.8	880.2	1224.1	1250.6	737.4	780.9
	K.GSPLAQSLQQALQHLIDN										
	GEYEK.I	3	390.4	409.2	817.8	813.4	516.8	564.0	605.3	610.3	
	K.IIPSIQGGTFNVGMSSFTD										
	TK.E	2	106.9	107.0	188.5	192.5	219.8	185.2	167.2	164.5	
	K.KAVAVQATTVQETDELPAR.										
	S	3	39.9	31.9	51.0	43.7	59.4	70.3	35.2	48.3	
	K.LIVGVNIPYAPNEFK.D	2	450.9	454.5	1241.2	1245.7	474.1	454.0	1277.5	1227.3	
	K.LIVGVNIPYAPNEFKDPSG										
	K.I	3	438.1	455.5	774.9	822.6	657.3	700.0	608.9	642.4	
	K.VAVQATTVQETDELPAR.S	2	379.5	418.8	820.4	868.0	620.0	700.7	706.2	825.1	

MSMEG	MSMEG	K.VAVQATTVQETDELPAR.S	3	80.7	95.5	105.2	134.6	117.3	121.6	76.1	88.6
_3244	3254	R.DP RRDGEHALSAGNPVG VVPR.A	2	17.8	21.4	64.4	61.4	21.6	39.7	60.3	47.2
MSMEG	MSMEG	R.FAELSALETEVATLSER.L	2	120.1	117.7	188.2	194.4	97.6	94.7	188.1	177.1
		R.FAELSALETEVATLSER.L	3	28.7	29.6	34.7	37.9	25.3	22.3	35.8	37.9
		R.IAPIVILTAFSQR.E	2	53.3	53.9	100.7	95.6	32.5	34.6	74.6	83.6
		R.LDLAEMLR.E	2	21.6	21.2	30.2	30.4	13.2	14.4	23.4	25.4
		R.VAEVVLETLDLTK.Q	2	175.1	200.3	280.2	350.7	162.6	165.2	277.2	287.7
		R.VLIAEDEALIR.L	2	97.4	100.2	175.5	163.6	131.7	99.9	151.1	177.0
MSMEG	MSMEG	K.ATGVAPQIVDEPFIIGVVG									
_3247	3258	PAFSGETK.A	2	124.8	159.8	647.2	735.5	111.2	190.3	611.6	779.0
		K.ATGVAPQIVDEPFIIGVVG									
		PAFSGETK.A	3	359.7	347.0	1516.6	1506.4	595.5	660.4	2064.5	2290.8
		K.DGGVEATFISADGTDPE									
		FVK.Q	3	133.4	149.6	224.1	242.3	316.0	359.0	457.7	427.3
		K.FGQEPGTYSTEGYDLGTI									
		LLK.G	2	297.1	302.3	691.3	694.0	498.1	448.3	755.3	694.5
		K.GAAPDSVFYSGYYSEAAP									
		FVQLK.D	2	118.1	140.5	270.9	325.3	214.9	194.1	307.1	288.8
		K.GAAPDSVFYSGYYSEAAP									
		FVQLK.D	3	244.6	234.0	379.8	356.4	365.5	374.8	424.6	439.5
		K.GALLSC#PC#GPATAEFA									
		EEYTQK.F	2	94.8	111.0	250.6	330.9	173.8	202.2	279.2	316.2
		K.GALLSC*PC*GPATAEFAE									
		EYTQK.F	2	94.8	111.0	250.6	330.9	173.7	202.2	278.9	316.2
		K.GALLSC*PC*GPATAEFAE									
		EYTQK.F	3	64.5	81.5	210.0	231.5	155.2	176.6	248.7	268.9
		K.VC#VVDDSTDYGLGLAEA									
		VR.T	2	249.3	227.1	552.3	520.4	765.8	688.1	674.4	656.4
		K.VC*VVDDSTDYGLGLAEA									
		VR.T	2	246.9	215.9	546.6	501.2	735.0	662.2	656.0	639.3
		R.GLANDGVQGPSVANYMK.									
		N	2	353.8	371.1	748.1	843.9	341.8	362.9	507.6	552.9

		R.TTLGPVADASC#NISVK.K	2	307.5	272.3	797.2	703.7	659.4	648.7	1089.4	1100.1
MSMEG	MSMEG	R.TTLGPVADASC*NISVK.K	2	310.9	275.4	801.4	708.8	660.7	650.9	1089.5	1101.2
_3253	3264	K.TLPAVWDLAAPSTVLAVR.									
		S	2	40.5	43.3	93.9	105.4	55.5	63.6	103.7	112.7
		R.GFWQGYFAAR.S	2	16.3	11.4	10.1	11.2	20.8	23.9	10.1	15.3
		R.LEPVHAVTYFSGESR.S	2	60.1	56.6	38.6	32.0	66.4	70.8	29.4	35.2
		R.LEPVHAVTYFSGESR.S	3	37.3	43.0	59.5	50.2	55.6	56.3	54.0	55.6
MSMEG	MSMEG	R.LVVAAGDIPVDTPMGLR.R	2	512.0	584.3	787.9	830.8	412.9	445.2	768.0	798.9
_3255	3266	K.VTASVAAALPAGAAASEI									
		ADSAVAEK.L	3	63.6	87.2	234.2	258.3	33.5	37.4	212.9	246.1
		R.LTAAALALSVPGLGSH									
		SFWK.E	3	58.7	61.4	122.7	123.0	38.0	35.2	105.2	105.3
MSMEG	MSMEG	R.GADGLTLVPLYLEGER.S	2	136.7	133.4	114.5	113.2	150.5	143.8	168.3	159.0
_3257	3269	R.PVDVPPPGEYVALGAAR.									
		Q	2	396.5	387.0	289.3	315.0	241.3	265.1	121.8	171.1
		R.SASSADDLVSELGGPDE									
		WAK.T	2	207.1	219.8	82.2	109.7	152.7	173.2	92.9	107.9
MSMEG	MSMEG	K.VSVTVQLDAR	2	0.0	0.3	2.5	3.1	0.3	0.1	1.7	1.4
_3278	3290	R.NFLGEGSSITLVGLDGAD									
		R.T	2	30.4	32.7	48.1	50.7	34.3	33.3	46.6	45.5
		R.VPILGSLVR.R	2	23.8	21.5	29.5	27.0	25.4	24.7	23.3	24.8
MSMEG	MSMEG	K.IDDLWDPAFK.G	2	5.4	4.4	26.9	33.0	24.9	26.1	21.0	33.0
_3280	3293	K.LVAFTQFVPVLSDMTDEL									
		AK.I	2	37.8	39.0	206.4	200.4	21.8	26.7	125.8	182.8
		R.KQDIGADLVVPTEFMAAR.									
		L	2	75.9	69.4	85.7	104.9	95.5	98.9	27.2	57.2
		R.LMGLNWLNNEINESR.V	2	51.2	49.8	168.7	155.5	51.3	52.8	103.5	95.1
MSMEG	MSMEG	R.LLQLQPSNVSTTVR.H	2	19.7	23.2	50.7	61.6	12.9	16.2	38.9	53.0
MSMEG	MSMEG	R.VGELVEDVVALIDASGAD									
_3287	3299	R.V	2	69.1	78.6	70.3	83.9	95.8	110.5	64.2	83.8

		R.VGELVEDVVALIDASGAD									
MSMEG	MSMEG	R.V									
		K.VIAAEPAAC#PSITQGEYR.									
_3309	3318	Y	2	116.4	88.2	58.2	38.7	79.3	110.8	79.2	111.8
		K.VIAAEPAAC*PSITQGEYR.									
		Y	2	116.4	88.2	58.2	38.7	79.3	110.8	79.2	111.8
MSMEG	MSMEG	K.AGVASLIDSMAVELAR.H	2	30.5	32.5	33.7	33.2	20.7	20.3	21.3	25.3
MSMEG	MSMEG	R.GLVEDIVPDPTGAFYLK.L	2	163.2	180.8	144.1	149.0	114.3	131.9	234.2	219.2
MSMEG	MSMEG	K.AWLDYVHVIGQTSPAAQG									
_3381	3388	VC#PLK.G	3	175.1	182.1	214.8	216.9	117.0	126.9	269.6	281.0
MSMEG	MSMEG	K.VISLADAPEIPGR.R	2	11.7	9.4	3.3	4.9	13.8	17.8	1.6	3.6
MSMEG	MSMEG	R.GAPVDFPLNGVVAGFQK.									
_3434	3442	A	2	91.1	85.6	36.5	45.9	109.5	114.2	74.4	82.8
MSMEG	MSMEG	K.DGAGAGTIPDPFGGPGR.									
_3461	3467	N	2	328.1	324.9	581.8	537.8	499.8	473.2	698.6	635.1
		K.DGGYNVTVPFAPGR.T	2	172.3	156.5	486.1	463.9	143.3	156.3	482.6	488.6
		K.GPDTITSGLEVVWTNTPT									
		K.W	2	162.3	90.8	315.3	212.5	84.6	234.7	286.6	418.7
		K.NWDVNEPAELATVLPVLE									
		R.I	2	66.0	68.3	192.6	184.0	61.4	71.0	189.5	214.7
		K.STVLDSDLSTGQLIK.T	2	198.8	212.1	628.8	635.0	222.5	201.1	711.7	664.3
		K.THGAGDASLVGPEPEAAP									
		IEQQGLGWK.S	3	209.2	225.2	658.7	649.7	154.8	210.5	415.3	568.4
		K.VSLADLIVLAGSAAIEK.A	2	71.9	72.1	191.4	196.8	84.5	78.4	237.6	223.9
		K.VSLADLIVLAGSAAIEK.A	3	25.7	24.5	63.0	57.1	37.0	29.2	93.9	75.2
		K.WTATANDLVFGSHSVLR.									
		A	2	24.5	24.9	198.6	196.8	33.3	36.8	228.2	216.9
		K.WTATANDLVFGSHSVLR.									
		A	3	133.4	114.5	141.7	119.9	133.9	142.0	209.6	145.4
		R.AVAEVYAQSDNGER.F	2	6.3	5.0	23.4	17.0	3.8	5.1	17.5	21.5
		R.AYFLGVTAPQLTALVGGL									
		R.A	2	110.9	114.9	231.6	226.1	109.4	139.0	276.3	314.5
		R.AYFLGVTAPQLTALVGGL									
		R.A	3	11.2	17.1	25.4	33.7	18.0	18.1	35.7	40.0

		R.FC*GAEGIENVTTASA.FR.									
		S	2	98.3	115.4	172.2	193.2	203.9	227.5	328.9	322.1
		R.FCGAEGIENVTTASA.FR.S	2	98.5	115.4	172.2	193.2	205.4	230.4	329.7	322.1
		R.GNPINTVGELPAVGSSAP									
		GFTLTGTDLGEVTNDQFSG									
		K.S	3	752.5	737.0	732.8	798.8	650.3	928.0	493.4	694.6
		R.SSFGEDFGITIADGPM*AG									
		LLGR.A	2	62.9	65.4	47.2	50.6	69.8	60.9	41.7	34.1
		R.SSFGEDFGITIADGPMAG									
		LLGR.A	2	68.5	65.4	60.1	55.8	91.2	83.3	64.6	56.9
MSMEG	MSMEG										
_3489	3494	R.AVKPDDSLVVFYGS.R.N	2	18.4	0.0	172.5	0.0	10.8	13.4	153.1	137.5
		R.GSIFADLTPR.A	2	5.1	5.2	9.0	6.8	11.5	11.4	7.0	11.2
MSMEG	MSMEG										
_3500	3504	K.LAAEQLIVDLR.S	2	7.0	5.9	5.3	6.1	11.2	14.4	7.0	8.1
		R.LAVGSALFGLVR.A	2	5.3	4.2	0.7	1.1	11.2	9.1	2.5	3.3
MSMEG	MSMEG										
_3505	3509	R.HLNAVITDLFER.G	2	210.2	202.9	247.8	255.1	74.4	80.4	171.9	175.2
MSMEG	MSMEG										
_3507	3511	K.GLAEEADGVQLMK.P	2	209.8	211.6	151.4	139.5	159.9	145.7	77.2	80.6
		K.GLAEEADGVQLMKPMPTL									
		DDLLAR.G	3	90.0	107.7	100.9	119.0	120.5	120.3	100.1	112.6
		K.LLAQNTGVIASFSR.A	2	1205.3	1374.4	1401.5	1550.9	1439.4	1511.4	1146.7	1215.0
		K.LSLPTVANHYK.S	3	66.5	39.3	37.6	18.2	66.7	70.6	11.4	12.0
		K.M#TSGQGFIAALDQS	GG.S								
		TPK.A	2	93.0	95.4	102.9	110.9	87.8	81.6	39.3	47.0
		K.M*TSGQGFIAALDQS	GG.S								
		TPK.A	2	92.9	95.4	102.9	110.9	87.8	81.6	39.3	47.0
		K.MTSGQGFIAALDQS	GGST								
		PK.A	2	152.2	158.7	132.0	138.5	225.5	216.1	99.8	92.8
		K.PMPTLDDLLAR.G	2	130.4	134.5	162.8	165.2	96.5	99.4	19.2	22.5
		R.LYGVEEAYSNEDEMFDL									
		IHQMR.S	3	328.1	356.0	320.8	320.4	390.7	408.4	176.9	161.7
		R.SVIGAANPTGVAAVVAQQ									
		FEVAK.Q	2	402.9	434.4	549.8	551.4	497.9	503.4	369.6	351.4

		R.SVIGAANPTGVAAVVAQQ									
		FEVAK.Q	3	546.5	546.7	671.8	683.0	725.6	692.3	450.0	437.5
		R.TIEGKPSATYLWEDK.G	2	96.3	99.7	71.8	82.7	73.6	88.6	62.6	86.5
		R.VLAAILFEQTM*DR.T	2	142.7	146.1	293.0	276.4	251.5	221.6	243.6	199.5
		R.VLAAILFEQTMDR.T	2	469.7	467.6	624.4	610.0	543.2	512.6	369.4	335.9
MSMEG	MSMEG	R.YEPAAADAYGQLLDVLR.									
_3512	3516	D	2	93.9	86.8	98.9	85.5	121.9	79.4	133.3	110.6
MSMEG	MSMEG	K.AAGGGSIINVSSIEGLR.G	2	57.1	67.0	43.7	60.5	40.9	56.2	41.7	44.9
MSMEG	MSMEG	K.LGDALYAAQC#VSRPPGS									
_3564	3564	A	2	155.7	189.3	517.8	593.5	342.9	351.1	528.7	498.6
		K.LGDALYAAQC*VSRPPGS									
		A	2	103.9	120.4	737.6	826.5	218.6	220.6	752.7	709.1
		K.LGDALYAAQC*VSRPPGS									
		A	3	40.5	43.1	164.7	187.7	81.7	89.1	161.6	169.6
		K.LLNEQLTSELTAIQNYFLH									
		SK.M	3	255.1	246.5	1402.8	1382.7	615.9	692.4	1476.8	1472.1
		K.M#QDNWGFTELAEHTR.A	2	0.2	0.1	5.1	6.4	0.2	0.3	3.1	2.6
		K.M#QDNWGFTELAEHTR.A	3	51.2	46.7	240.3	230.1	83.7	77.9	146.8	138.5
		K.M#QDNWGFTELAEHTR.A	3	36.2	36.7	192.5	175.8	79.5	70.8	146.8	138.5
		K.MQDNWGFTELAEHTR.A	3	36.0	36.4	194.4	175.8	79.3	82.5	182.6	182.7
		R.ILLLDPGLPNYQR.L	2	154.5	170.7	912.5	973.9	307.2	289.7	922.4	871.3
		R.ILLLDPGLPNYQR.L	3	0.0	0.0	5.6	8.6	0.0	0.0	0.9	5.3
		R.LLEQILADEETHIDYLETQL									
		QLMDK.L	3	3.7	4.7	15.0	18.9	12.9	16.2	15.1	21.1
MSMEG	MSMEG	R.TDALANIALLR.R	2	11.9	11.6	4.4	3.4	6.8	6.8	4.9	6.1
MSMEG	MSMEG	K.AWDAFDPVDLAASLTR.A	2	103.5	94.1	98.8	98.1	67.7	63.3	107.2	105.0
_3574	3574	R.GPLNFYSLYR.A	2	56.4	65.7	5.8	10.7	116.0	110.7	1.3	5.4
MSMEG	MSMEG	R.EALDDGDEPFGSVLVDHT									
_3575	3576	GTTLFEDR.N	3	71.1	74.8	90.3	94.1	74.6	64.4	95.5	92.4
MSMEG	MSMEG	K.WETFLTQELPAWLEANR.									
_3580	3581	G	2	261.3	224.5	4.5	5.2	173.0	149.5	2.4	8.1

		R.NDPMVNINQLVANNTR.L	2	60.4	65.8	9.3	5.5	33.2	41.6	6.2	3.5
		R.VQFQGGGPHAVYLLDGL									
		R.A	3	152.0	150.9	21.7	19.4	94.6	99.8	20.5	22.5
MSMEG	MSMEG										
_3595	3599	R.LADRPGGWVGLAR.L	3	12.0	7.9	9.4	5.3	7.2	8.9	9.2	10.2
MSMEG	MSMEG	R.AIIGDDDLTPEILTDFTAL									
_3596	3600	HK.A	3	17.2	19.4	29.1	31.4	13.6	16.6	29.3	29.7
		R.AMTDVLAFFDAAR.E	2	9.3	8.6	6.9	8.5	8.0	7.3	6.1	6.8
		R.GVSSIVLDPNNDSL.R.L	2	16.9	19.7	18.6	20.6	10.4	14.2	14.3	18.3
		R.HC#LEHDTVEELTR.L	3	2.6	1.5	1.9	1.4	0.9	1.8	0.6	1.5
MSMEG	MSMEG	R.TGVPIVGIDGIEDGLNAVK.									
_3598	3602	S	2	110.4	96.2	173.8	176.1	147.3	130.4	167.4	157.8
MSMEG	MSMEG										
_3609	3614	R.INVAPGSSVSQVADAVK.I	2	27.6	29.3	41.3	41.0	28.9	26.5	79.9	88.4
MSMEG	MSMEG	K.FTDANKPAGQIWAGVVG									
_3618	3624	QPVAPGTPR.G	3	607.4	575.5	788.1	784.8	379.0	399.9	599.0	724.3
		K.TVAEGAEPNDTSVLLGR.									
		L	2	512.0	521.4	520.7	552.6	345.8	384.8	419.7	516.1
MSMEG	MSMEG	K.AALSDWTAGQADFFGTR.									
_3619	3625	G	2	248.8	249.9	51.7	58.1	196.5	210.1	48.5	46.3
		R.LALFLSTPAAR.H	2	75.7	81.1	38.4	44.8	63.6	73.7	79.0	80.9
MSMEG	MSMEG										
_3620	3626	K.AITTLDVVS.R.G	2	9.0	10.4	0.9	1.6	4.0	5.7	0.4	0.4
		K.LDEALQIILPMLK.G	2	229.0	218.4	238.9	211.0	78.1	72.1	100.9	86.0
		R.FRDHIPLMIGGSGEK.K	3	101.1	105.9	38.6	37.8	48.9	56.7	15.7	19.6
		R.HFDHLNVIAGFDELAR.K	3	154.1	154.5	115.0	118.9	48.2	51.3	58.6	52.0
		R.HFDHLNVIAGFDELAR.K	4	27.9	25.2	2.7	1.3	5.5	5.6	0.0	1.1
		R.LALQIPNFSYGTGVEELFP									
		TVIAQAK.E	3	629.4	723.2	538.9	657.0	246.7	347.0	347.8	478.7
		R.PGDITAIGEALKPLISG	2	49.3	43.4	32.2	39.8	6.2	6.7	24.1	18.5
		R.VQLGTLVTGNTYR.N	2	747.2	762.9	358.7	391.2	552.3	491.8	249.3	258.6
MSMEG	MSMEG										
_3621	3627	K.DLAEQSGVELDR.A	2	25.6	26.5	31.6	30.4	21.6	30.9	35.5	40.9
		R.TRIEELEIAAAVQDTEK.A	3	21.5	19.9	7.0	6.5	35.6	27.1	9.3	14.7
MSMEG	MSMEG	R.AERPTALISLTEPDPTAGPV									
_3623	3628	LDWVR.E	3	223.3	239.4	328.9	344.4	391.1	310.8	434.5	418.4

MSMEG	MSMEG											
_3625	3631	K.GNTVSADSMWEQLR.G	2	135.6	138.6	160.8	158.7	136.3	121.0	79.8	70.0	
		K.LADLVLWEPAFFGVR.P	2	23.0	28.1	94.1	119.4	6.7	14.0	37.2	55.8	
		R.M#LESLDSPPMNIVLLGK.										
		G	2	12.4	17.8	18.2	21.3	4.3	14.9	2.3	6.0	
		R.MLESLDSPPMNIVLLGK.										
		G	2	96.2	66.4	72.1	90.5	43.1	63.3	34.6	65.6	
		R.SGGPELAGDEAVFGGGK.										
		V	2	75.2	55.1	226.5	184.2	53.8	41.7	153.4	103.2	
		R.SNYAALFGPTTGDR.I	2	33.7	43.1	141.2	150.1	13.3	17.8	73.5	67.9	
MSMEG	MSMEG											
_3627	3633	R.LLISYAAELAR.R	2	4.2	5.5	10.1	9.3	8.6	7.5	16.9	16.5	
MSMEG	MSMEG	K.GFDSEIGLNTELGPDGG										
_3628	3634	R.A	2	86.5	92.3	66.7	64.1	63.5	73.0	58.5	64.1	
		R.AIGSGTVTAVSTPIHR.G	2	31.2	21.9	22.8	14.9	25.8	27.2	22.2	21.7	
MSMEG	MSMEG	K.ATVGLASGALGATPSDAA										
_3632	3638	DFIEAVR.R	2	141.4	148.7	183.3	204.8	162.1	130.1	176.3	169.3	
		K.ATVGLASGALGATPSDAA										
		DFIEAVR.R	3	229.4	202.8	272.2	256.5	267.7	223.7	350.6	309.3	
		K.SALDLGVVPVTGIAEAVFAR										
		.A	2	776.4	717.0	1110.7	1052.8	741.0	650.4	1052.0	932.6	
		K.SALDLGVVPVTGIAEAVFAR										
		.A	3	36.4	44.8	24.7	34.3	40.5	44.0	32.5	34.8	
		K.TGKPLVDVIVDEAEQK.G	2	167.2	199.6	667.2	798.3	195.2	224.1	473.3	551.5	
		K.TGKPLVDVIVDEAEQK.G	3	152.9	123.1	138.6	126.2	181.7	147.9	174.9	151.0	
		R.GDLDSDLVETAK.V	2	73.7	60.6	77.2	70.1	102.3	74.8	105.6	90.6	
		R.IKDAYDAEPDLPTLLAAPY										
		FR.D	3	208.4	186.8	286.0	262.6	391.1	305.1	589.2	488.4	
		R.LPAALIQGLR.D	2	44.0	33.6	91.7	76.8	73.7	71.8	79.5	66.4	
		R.SETIAEFIDALEKPR.K	2	316.1	309.0	440.6	438.5	292.6	285.6	438.4	399.1	
MSMEG	MSMEG	K.VV LGVQSAAGFAEGHPLP										
_3634	3639	AGW	2	120.3	122.2	68.1	73.3	83.6	82.9	58.7	66.6	
		R.DIALSDFVTAPVGTDPR.E	2	251.4	227.2	224.9	211.3	178.7	183.9	298.9	248.4	
		R.DLIEAGASIVK.V	2	56.1	43.9	30.8	25.3	43.1	29.1	46.3	49.8	

		R.GGVEDLLDHITSGVR.S	3	60.5	50.4	22.6	21.0	35.3	33.9	34.1	29.0
		R.RGGIVVLPQDLPITAVSET									
		VDFVK.S	3	202.3	190.7	127.4	146.7	170.7	151.9	214.2	185.8
MSMEG	MSMEG	K.GMWAMTDLADMVEQK.									
_3640	3646	I	2	73.1	73.6	39.2	46.0	25.3	34.2	14.3	21.5
		K.IDDGAEVALGDDK.V	2	359.8	343.0	196.2	184.9	215.9	202.5	189.5	193.2
		K.TPDGEGEELTPGR.S	2	51.9	40.3	19.5	11.9	26.9	25.8	10.9	10.0
		K.VLHDFITNEALPGTGVDP									
		DSFWSGVDK.V	3	1086.0	1293.6	468.5	535.2	588.2	918.6	339.3	551.6
		K.VPDIHDVALM*EDR.A	2	24.8	18.6	34.1	30.6	14.1	8.6	43.1	50.2
		K.VPDIHDVALM*EDR.A	3	62.6	41.1	45.5	30.2	40.6	20.5	28.4	22.5
		K.VPDIHDVALMEDR.A	2	187.9	203.1	177.3	180.2	133.6	136.3	167.6	146.3
		K.VPDIHDVALMEDR.A	3	388.5	357.3	210.6	190.0	249.9	234.1	178.6	171.4
		R.GFLDEVVPLAEGSWSEAT									
		GLK.I	2	394.4	425.3	197.1	209.6	264.1	335.5	187.3	259.7
		R.GFLDEVVPLAEGSWSEAT									
		GLK.I	3	305.6	391.1	125.2	154.2	207.2	274.4	130.3	171.6
		R.HGVITEEDVK.T	2	0.4	0.2	10.6	7.8	0.1	0.2	7.9	6.7
		R.ISSQLLANWLR.H	2	420.1	394.4	163.7	161.9	413.1	300.0	240.4	189.6
		R.RDELQAQIDK.W	2	2.0	1.2	0.0	0.0	0.7	1.2	0.1	0.1
		R.SHVLEPVDPVAYK.Q	2	134.5	90.5	71.2	47.0	112.8	38.6	80.2	25.7
		R.TGDEIHTSMEAGPM*VR.K	3	1.7	1.3	0.2	0.2	0.7	0.7	0.2	0.3
		R.TGDEIHTSMEAGPMVR.K	2	47.4	32.2	102.3	73.2	21.6	14.2	88.5	50.9
		R.TGDEIHTSMEAGPMVR.K	3	42.8	35.5	13.4	13.1	16.7	19.4	6.9	7.5
		R.VEDVLGLPANTLK.V	2	799.6	848.0	421.5	415.4	766.9	591.5	611.4	452.0
		R.VVFINTGFLDR.T	2	797.1	815.7	441.0	410.7	711.5	532.6	601.9	413.3
MSMEG	MSMEG	K.ALPTGILDALDAAGR.A	2	229.4	205.9	195.0	173.8	658.4	474.4	325.6	227.2
_3642	3648	K.FFDTVLVR.V	2	148.0	137.2	106.5	89.0	334.3	241.2	181.4	150.3
		K.LNAAAEMEPITWTEFSR.Q	2	349.0	323.1	99.0	87.7	432.4	376.7	75.1	80.7
		K.TFC#IPHGGGGPGVGPVA									
		VR.A	2	11.5	15.0	17.6	31.9	35.4	55.2	8.7	64.2

		K.TFC#IPHGGGGPGVGPVA									
		VR.A	3	97.7	89.9	61.8	72.4	200.3	236.8	69.3	105.7
		R.AATLTAIASANYVAR.R	2	87.6	79.1	368.3	388.7	208.3	206.1	302.4	311.8
		R.APGLAELPPAATEEEALA									
		ELR.A	2	209.1	216.1	202.6	170.3	428.8	443.4	270.3	190.8
		R.APGLAELPPAATEEEALA									
		ELR.A	3	16.8	17.1	73.0	57.6	22.9	29.7	66.5	65.1
		R.ARPLGIEIVTADLSK.G	2	126.1	134.3	100.0	113.1	330.9	279.5	136.0	119.5
		R.ARPLGIEIVTADLSK.G	3	110.3	100.1	62.6	58.6	304.4	238.4	96.0	74.4
		R.GAPHTADC#LLVADWNR									
		PYTR.E	4	30.2	30.2	20.5	19.6	95.4	107.3	25.7	22.9
		R.LVGVSVDSDGSPAYR.L	2	162.8	129.1	137.9	115.3	282.1	211.1	135.9	105.6
		R.NILENPWYTAYTPYQPEI									
		SQGR.L	3	67.7	82.7	98.5	103.1	107.6	152.6	39.9	75.7
		R.RVHAHADAIASALGDAVV									
		HDK.F	3	5.2	13.1	18.4	19.5	7.8	48.6	5.0	21.2
		R.RVHAHADAIASALGDAVV									
		HDK.F	4	30.5	34.0	13.4	18.3	43.8	96.1	4.8	24.7
		R.VGSGEWPVDDNPLR.G	2	514.4	510.2	624.2	597.4	858.4	813.9	724.8	675.2
		R.VHAHADAIASALGDAVVH									
		DK.F	4	89.5	77.3	41.8	41.1	156.3	181.2	33.8	47.8
MSMEG	MSMEG	R.EPVDSAVLANGDEVQIGK.									
_3647	3653	F	2	346.5	394.7	403.5	412.7	206.6	250.2	236.4	282.3
		R.FLLDQPTTSAGR.H	2	9.2	0.0	1.4	0.0	6.8	8.2	0.3	1.0
		R.HPDSDFLDDVTVSR.R	2	389.7	422.2	581.1	594.9	379.0	356.7	926.6	922.6
		R.HPDSDFLDDVTVSR.R	3	140.9	143.8	192.3	175.6	148.5	145.1	194.7	180.8
MSMEG	MSMEG	R.VEAGTLDEALGGLLDAEG									
_3648	3654	YR.A	2	680.1	824.6	832.2	961.3	611.1	681.4	793.3	796.3
		R.VEAGTLDEALGGLLDAEG									
		YR.A	3	72.1	53.8	81.7	63.2	63.2	67.5	68.1	74.3
MSMEG	MSMEG	K.LEDLAGASDITQFLAIAR.E	2	63.4	66.0	75.5	82.8	72.1	62.0	94.0	101.5
_3654	3660	K.LGVSPIPPNTPNIR.K	2	97.3	97.1	93.6	84.2	96.9	89.7	122.2	128.4
		K.TGQPVLVGTHDVAESEEL									
		HEK.L	3	73.4	69.3	84.2	86.1	58.3	66.7	109.2	126.9
		K.TGQPVLVGTHDVAESEEL									
		HEK.L	4	103.5	99.7	70.5	76.3	69.2	86.5	73.1	92.4

		K.TLAGAIAAAAGYALGGR.R	2	47.3	48.2	81.0	73.6	52.8	48.1	98.2	70.0
		R.TTGLRPFDVQLLAALR.M	3	21.8	22.4	21.7	24.0	19.0	25.7	23.0	41.7
		R.VHVITINDYLAR.R	3	16.6	12.2	75.0	62.5	15.2	12.9	86.4	65.3
MSMEG	MSMEG	R.VPLSGPDGRPLLLEEVFD									
_3673	3679	DVR.A	3	16.1	20.8	47.0	56.6	26.9	20.0	50.7	49.2
MSMEG	MSMEG										
_3710	3716	R.GPPLPSTVGALER.K	2	14.1	0.0	4.2	0.0	0.9	2.1	1.1	1.4
MSMEG	MSMEG	R.VRLEKVFDC*GDPLLLNR.									
_3715	3722	F	2	29.7	29.2	64.0	69.8	21.4	22.6	49.4	50.5
MSMEG	MSMEG	K.AGVELDDGPAHVDDFAVV									
_3740	3746	DTVPGK.T	3	82.3	99.5	79.2	91.2	93.0	94.9	77.4	91.5
		R.LLAAVDFPVQELVR.T	2	48.4	48.2	84.9	80.3	65.9	59.5	87.9	85.1
MSMEG	MSMEG										
_3745	3751	R.VLVLDLDSTPGFSDESVR.V	2	66.4	73.5	47.1	54.0	35.7	23.7	27.5	6.0
MSMEG	MSMEG										
_3746	3752	K.HLFVTGGVVSSLGK.G	2	47.9	48.4	99.1	108.3	53.3	57.5	70.2	98.7
		K.VLHREELDAYVVR.R	3	13.6	16.7	16.4	18.0	25.4	25.2	19.0	25.5
		K.YIDLSDAYLSVAEALR.A	2	132.3	124.9	139.1	141.1	170.1	141.4	174.7	139.3
		R.DVDTEWDDLLR.R	2	25.7	39.5	29.7	43.7	27.6	37.0	25.1	34.9
		R.DVDTEWDDLLRRVHEP									
		QETVR.I	3	17.7	19.5	621.2	638.6	10.6	9.4	775.7	720.6
		R.NLSGSANVTGQVYSSVI									
		AK.E	2	77.4	77.9	306.2	254.2	84.0	88.3	236.7	263.6
		R.RGEYLGDTVQVIPHITDEI									
		K.S	3	109.3	138.0	126.0	146.4	137.7	146.6	141.4	173.8
		R.RGEYLGDTVQVIPHITDEI									
		K.S	4	24.2	20.6	14.7	13.0	28.8	29.2	12.3	16.2
		R.SIGITPDALILR.C	2	86.2	78.1	759.3	768.2	108.9	86.4	690.9	539.6
		R.SVGITEANSAEFDPK.T	2	114.3	92.0	113.2	87.7	123.6	96.6	117.3	86.2
MSMEG	MSMEG										
_3754	3760	R.SPEAEALTGEDADELR.I	2	60.5	61.5	55.1	42.9	41.6	51.3	20.5	29.3
MSMEG	MSMEG										
_3758	3764	R.GELADLDESTLSAALR.E	2	62.4	75.2	133.0	133.6	55.8	54.5	186.7	175.4
		R.TVAEGGVYVNNAR.V	2	13.8	10.2	10.8	9.9	7.1	5.9	7.9	6.1
MSMEG	MSMEG										
_3767	3773	R.AAPQADVYEYLIR.A	2	33.7	41.8	116.9	110.8	34.5	40.6	117.9	113.0

		R.FGLRPVTGIDPAAVSPW									
		WMQR.R	3	193.3	284.1	52.3	73.1	147.0	278.2	84.6	106.4
		R.GAADVALFGIQQQVQPTD									
		ATK.A	2	90.7	91.6	110.8	104.9	110.8	107.5	121.3	147.1
		R.IGHEVEEIITAGPVSGPLT									
		VGR.V	3	204.5	252.5	197.1	246.1	218.3	240.6	277.0	263.8
		R.LEGLEIIPSVLPTAPAGR.G	2	236.0	225.7	390.7	396.7	296.3	242.9	389.2	381.5
		R.LFDVYTGPQIGEGR.K	2	298.3	288.9	345.2	338.6	243.9	238.3	377.9	403.9
		R.RPTDEEIAALDASLPR.Q	2	64.8	66.0	48.4	50.6	61.1	92.0	65.0	95.1
		R.RPTDEEIAALDASLPR.Q	3	84.9	82.4	59.6	72.9	106.1	117.8	84.6	118.6
		R.SVDPAISVAALDR.C	2	279.3	243.7	121.7	118.7	401.6	257.8	175.9	117.6
		R.TTQVLNPLESDRPHLATT									
		LLPGLLEALSR.N	4	165.5	203.1	182.4	224.8	197.1	206.2	228.8	258.3
		R.VIEIELTEFK.K	2	73.7	75.2	74.9	77.4	108.1	78.6	134.1	90.0
MSMEG	MSMEG										
_3778	3784	R.DLPVYIISIGR.T	2	33.4	36.9	18.2	21.0	22.2	28.4	25.5	8.1
MSMEG	MSMEG										
_3791	3797	K.AKEQQQLHSLTYAYR.D	3	13.5	5.5	5.9	1.5	20.3	16.3	8.6	5.8
		K.EQQLHSLTYAYR.D	2	8.0	5.6	2.4	1.6	9.6	9.0	3.6	1.9
		K.NLAELAVSDPAAFTALVDV									
		AR.A	2	502.9	564.9	321.6	356.4	446.0	494.3	305.6	308.9
		K.NLAELAVSDPAAFTALVDV									
		AR.A	3	283.4	222.8	184.8	143.2	240.7	278.5	155.3	171.1
		R.AALPEDVNAPSGEAA	2	94.5	86.0	81.3	73.7	90.5	119.4	83.5	95.3
MSMEG	MSMEG										
_3793	3799	R.LGADVAEYGFVETSAK.Q	2	126.6	127.8	335.2	348.7	127.5	115.3	308.9	322.4
		R.LIGPGGEQVGIVR.I	2	187.2	152.1	186.8	148.9	133.7	167.7	153.4	185.5
		R.VAADADLDLVEVAPNARP									
		PVC#K.I	3	269.5	300.1	1921.2	2215.5	401.4	381.5	2035.8	2162.6
		R.VAADADLDLVEVAPNARP									
		PVC*K.I	3	269.5	299.7	1919.6	2208.6	401.4	381.5	2025.2	2162.6
MSMEG	MSMEG	K.EIDVAFPLGVLTSTGVSG									
_3808	3814	SGK.S	2	72.7	65.3	36.0	33.8	80.4	71.3	29.9	39.9
		K.HDIEVVVDR.L	2	3.9	2.9	0.4	0.3	2.7	3.9	0.1	0.6
		R.STVGTITEVYDYLR.L	2	96.4	102.6	95.4	88.3	107.5	83.0	102.1	73.8
		R.VDGVVYPLTDPPK.L	2	32.6	26.5	299.8	257.5	24.5	20.1	337.5	329.9

MSMEG	MSMEG	K.ASVGPMDNNC#YLVTC#R									
_3810	3815	.S	2	43.5	42.2	40.9	43.7	52.7	64.3	46.9	50.9
		K.ASVGPMDNNC*YLVTC*R.									
		S	2	42.4	41.6	40.8	43.6	52.7	64.3	46.9	50.9
		R.TVVYPGHGDDTTLGAERP									
		SLAEWR.E	3	68.3	90.6	68.3	64.4	125.3	142.3	69.7	78.9
MSMEG	MSMEG	K.AAGATDIEERPVVGAPVD									
_3811	3816	ALVELADEVK.A	3	465.3	462.2	480.4	475.9	245.7	273.8	500.7	521.2
		K.AAGATDIEERPVVGAPVD									
		ALVELADEVK.A	4	101.2	70.5	82.6	49.4	41.4	47.7	64.8	69.6
		K.ADLLVGVGNGLSTIAGR.L	2	227.8	369.7	217.1	335.6	109.4	116.3	218.2	207.8
		K.ADLLVGVGNGLSTIAGR.L	3	70.5	43.7	52.4	29.7	36.7	36.2	59.4	50.3
		K.LIIATAYFPQSEDSR.A	2	2020.0	2651.7	2231.4	2786.6	961.8	1038.3	2079.5	2186.3
		K.LIIATAYFPQSEDSR.A	3	121.9	69.3	86.3	49.6	47.9	55.6	71.4	76.7
		K.M#AGNAPIYAILR.E	2	527.9	526.5	413.3	408.0	225.8	225.5	354.3	351.7
		K.MAGNAPIYAILR.E	2	443.3	492.6	508.0	504.2	242.0	220.4	561.8	468.3
		K.TDVLIVHTS	2	4.8	5.0	2.1	1.3	1.2	1.0	0.8	1.5
		R.PVVGAPVDALVELADEVK.									
		A	2	459.0	899.7	422.1	797.2	156.8	144.4	298.6	262.6
		R.PVVGAPVDALVELADEVK.									
		A	3	209.2	159.8	145.0	107.9	59.8	62.0	88.7	88.6
MSMEG	MSMEG	K.TLAAQLANELR.E	2	6.5	8.0	34.8	30.4	13.0	11.0	61.4	39.2
MSMEG	MSMEG										
_3831	3837	R.IAAQATVEER.R	2	10.0	7.8	7.1	5.4	7.7	6.0	6.7	5.0
MSMEG	MSMEG	K.FAAAEEAANAPVSNGSS									
_3833	3838	R.S	2	76.8	54.7	41.8	28.6	76.8	69.4	33.6	32.4
		K.FAAAEEAANAPVSNGSS									
		R.S	3	14.7	13.3	12.8	12.3	3.3	5.4	2.6	5.1
		K.GGLILDIGLR.G	2	194.1	142.3	110.2	74.8	217.3	165.8	117.6	67.2
		K.HDVPNEVSVGDEVEAL									
		VLTKE	2	135.9	120.8	145.0	127.6	66.5	70.1	81.1	76.9
		K.HDVPNEVSVGDEVEAL									
		VLTKE	3	1059.0	1165.5	940.7	1028.7	1281.8	972.2	1002.7	784.0
		K.VDRDEVLLDIGYK.T	2	485.5	508.4	623.2	626.3	519.7	563.4	545.1	610.5

		K.VDRDEVLLDIGYK.T	3	318.4	272.2	236.4	187.0	294.9	264.5	188.9	166.0
		K.YFNDGDIVEGTIVK.V	2	1861.4	1811.7	1681.5	1660.3	1860.8	1755.7	1532.3	1546.1
		R.AWGTIEELKEKDEAVK.G	2	57.1	53.0	202.8	213.7	125.4	162.0	187.6	402.1
		R.AWGTIEELKEKDEAVK.G	3	148.3	121.3	451.3	403.9	337.6	341.0	552.7	560.4
		R.GFLPASLVEM*R.R	2	155.7	144.2	84.9	75.8	131.6	125.0	45.8	39.5
		R.GFLPASLVEMR.R	2	643.6	583.8	464.4	409.7	426.8	350.2	295.7	229.2
		R.HVEVPDQVVQVGDDAM*									
		VK.V	3	107.0	118.7	145.8	171.4	46.5	47.5	94.4	129.2
		R.HVEVPDQVVQVGDDAMV									
		K.V	2	629.5	651.3	489.8	490.9	334.1	379.0	281.2	374.2
		R.HVEVPDQVVQVGDDAMV									
		K.V	3	553.4	482.2	604.3	530.8	253.3	234.1	251.8	263.7
		R.SEESSGGTLASDAQLAAL									
		R.E	2	1313.8	1289.1	983.4	971.4	1225.6	1069.0	980.3	922.6
		R.VEEGIEGLVHISELSER.H	2	480.9	404.8	367.4	311.9	564.1	515.0	323.7	310.1
		R.VEEGIEGLVHISELSER.H	3	688.0	603.8	498.8	465.3	774.2	638.9	458.7	381.9
MSMEG _3839	MSMEG 3843	K.AADDTPTLMLLDGNNSLAF									
		R.A	2	37.6	46.7	34.1	33.7	34.2	37.9	35.7	49.8
		K.TGYTTDADALQSLFEK.T	2	85.8	85.6	90.9	92.0	107.7	79.2	127.8	107.4
		K.VTVDGLLNSVASDGR.I	2	130.2	161.7	76.9	94.6	119.5	113.3	83.0	81.0
		K.YGLTPQQYPDFAALR.G	2	194.3	178.3	234.2	175.4	179.5	150.0	270.3	159.4
		R.AALNAPIQGSAADIJK.V	2	175.5	166.2	212.6	218.9	168.9	184.3	203.3	229.9
		R.AC#AVLDLADALDQELAR.I	3	16.0	21.3	9.4	13.0	22.5	17.9	20.6	15.5
		R.AC*AVLDLADALDQELAR.I	2	98.6	92.6	46.2	45.3	127.3	96.4	77.8	54.0
		R.AFSVPIDEVTPELR.R	2	141.9	146.7	484.4	573.4	152.0	132.1	552.2	524.6
		R.AFYALPAENFK.T	2	54.1	44.0	48.9	38.4	59.1	47.6	58.3	54.8
		R.DAGLIEAFNTGEDLHSFV									
		ASR.A	3	117.9	105.4	102.7	85.5	148.2	84.2	151.5	92.0
		R.LFDDLEFR.V	2	42.6	37.0	20.3	17.4	44.7	42.9	35.9	24.6
		R.LSSTEPNLQNIPIR.T	2	203.3	205.1	169.3	180.7	187.4	215.1	208.9	224.7
		R.SFTLDDLAVR.Y	2	46.7	36.4	22.8	25.6	51.7	36.8	38.0	29.7

MSMEG	MSMEG										
_3859	3862	K.AGLGAAYLAGFDWGLR.R	2	16.9	19.6	33.8	35.6	15.6	15.1	19.4	16.7
MSMEG	MSMEG										
_3863	3866	K.SEAVEAHAEILDK.S	3	3.4	0.0	5.3	0.0	4.1	3.5	4.7	4.1
		K.YILLTTFTK.D	2	9.0	9.1	14.0	14.1	11.8	11.6	22.5	20.2
MSMEG	MSMEG										
_3864	3867	R.ALGGFIPSGPSGSPLR.G	2	55.5	52.2	20.3	18.2	34.8	38.6	18.1	20.8
		R.GQQDAEWLTEEQLAR.N	2	24.3	22.8	0.8	2.0	13.1	15.3	1.4	1.4
		R.IGNAGVGLDTPASAVALLR.									
		A	2	52.4	47.5	85.6	99.2	35.2	33.5	84.1	80.6
		R.LAGTEC#EIDQVLR.A	2	19.2	21.1	2.6	2.9	11.5	12.9	1.3	3.4
		R.LVDGELEELLAGADIAVVR									
		.I	2	9.9	9.4	7.5	6.0	6.7	6.8	2.0	3.8
		R.LVDGELEELLAGADIAVVR									
		.I	3	6.4	7.0	0.3	0.5	4.1	4.4	0.5	0.7
MSMEG	MSMEG										
_3872	3875	R.LGGAVLAIGNAPTAFLR.L	2	20.1	21.7	50.8	51.4	35.2	37.3	58.1	61.3
MSMEG	MSMEG										
_3881	3884	R.LTALVLPADGDPTIVVPR.L	2	148.5	84.2	166.2	112.7	126.0	126.6	194.0	196.1
		R.YALLQQAQQAQAAVAVRP									
		GVTAEQVDAAR.D	3	156.1	149.1	178.0	185.3	121.4	121.6	185.4	188.1
MSMEG	MSMEG	R.PIGPAGAVQKPQDVNLR.									
3892	3892	D	3	22.1	19.6	7.5	8.0	8.9	11.4	1.7	3.9
MSMEG	MSMEG	R.TTVAGYADSPSDEAFSR.									
_3889	3893	M	2	17.6	19.2	4.6	7.0	4.8	6.7	0.4	2.4
MSMEG	MSMEG										
_3895	3899	K.LYSQVSDADSALK.V	2	23.8	20.0	15.4	11.6	7.0	9.0	17.1	13.6
		K.VAVEALYDAADDSATGG									
		PDLVR.G	3	338.8	348.4	273.9	269.9	179.1	188.3	269.4	270.6
		R.GIYPTAVTIGAEGAEVP									
		TR.I	2	204.1	243.9	126.9	138.7	129.3	133.2	101.6	135.9
		R.GNLGAALQGFVALPLLVG									
		YDLDDPHPEGAGR.I	3	121.7	124.7	97.1	105.1	48.5	56.7	66.8	78.7
		R.LYAVELEHYEK.L	2	251.3	192.1	158.8	102.2	180.9	167.5	178.4	171.5
MSMEG	MSMEG	K.AHVGALLDSVDSAVELVE									
_3897	3901	QLTN	2	28.2	30.6	41.2	59.7	19.7	27.8	22.9	39.0

		R.VGIGPSGDEPGFQLSQR.									
MSMEG _3902	MSMEG 3906	A	2	198.5	201.3	262.4	263.4	194.6	203.9	239.3	269.6
		K.AEVEDLVLEEVPDVSYNDI									
		GGLGR.Q	3	339.9	425.5	89.6	129.0	152.0	212.2	59.3	94.8
		K.ASEGTPVIVFFDEMDSIFR									
		.T	2	17.1	24.6	9.2	14.8	0.0	14.7	0.0	7.3
		K.DFNSGAMIQNVVDR.A	2	338.3	332.5	151.7	150.8	302.1	307.9	110.3	115.9
		K.DLPDEPTDYFDDSRPR.K	2	97.6	88.5	25.6	37.8	76.4	94.8	12.8	32.5
		K.IERPDAEAQQDIFSK.Y	2	62.9	65.6	76.7	72.9	40.7	49.7	75.3	75.9
		K.IKIERPDAEAQQDIFSK.Y	2	20.5	24.1	0.9	1.7	22.5	31.5	1.4	2.2
		K.IKIERPDAEAQQDIFSK.Y	3	132.5	132.6	65.3	79.9	125.6	128.6	80.9	85.9
		K.IKIERPDAEAQQDIFSK.Y	4	57.4	51.8	17.2	14.3	63.5	76.5	18.9	17.8
		K.YLTEDLPVHADDLTEFNG									
		DR.A	3	386.4	430.7	252.5	250.8	341.5	331.9	199.1	204.6
		R.DAELPFLHK.D	2	91.9	75.9	30.5	26.2	104.8	84.1	31.0	30.6
		R.EQLENNAVGPQSGLR.S	2	9.7	9.1	27.2	25.8	6.9	9.4	18.4	26.6
		R.IVWLAEPLVAAK.D	2	333.8	320.5	179.7	166.2	400.2	295.1	203.8	160.1
MSMEG _3906	MSMEG 3910	R.GIIAFDDVIGLPEGSVVK.S	2	54.9	46.7	84.4	86.2	88.4	85.6	100.3	93.6
		R.HYTMVLNHGGEFHTHR.G	4	5.0	4.2	4.6	3.7	6.3	8.1	4.0	5.5
MSMEG _3918	MSMEG 3923	R.ILELLARFTDDAVAADRIM									
		R.L	3	6.7	6.9	75.7	77.1	10.6	16.7	64.2	81.0
MSMEG _3932	MSMEG 3937	R.SVTLPPGADEDAIK.A	2	168.0	149.7	3.9	3.7	10.8	13.7	3.5	4.6
MSMEG _3945	MSMEG 3950	K.ALEFAFDAASR.R	2	30.4	28.2	0.3	0.3	3.4	2.2	0.7	0.2
		K.ASAIATTAPVVVGVDGSP									
		ASEK.A	2	130.3	131.1	2.5	3.2	27.8	34.2	0.9	2.5
		R.GGFAGLLLGSVSTSVAEA									
		AERPVVVR.G	4	31.0	34.6	0.1	0.3	2.9	3.6	0.0	0.0
		R.GVLVGVDGSEPTAAVE									
		WAAK.E	2	88.5	89.3	30.0	29.2	18.8	22.5	37.8	45.9
		R.LLGSVTAGLIR.H	2	93.5	94.5	0.5	0.2	22.8	21.7	0.6	0.5
MSMEG _3950	MSMEG 3957	K.VVADC#LGETHGLTVQTEI									
		R.K	3	300.8	257.2	11.7	6.2	94.2	96.1	9.2	11.4

		R.GGFTGMLLGSVSSR.V	2	88.0	89.5	5.6	6.6	18.1	18.4	5.2	7.8
		R.LPVLLGIDGSPASEVATSH									
		AFDEASR.R	3	968.8	1006.7	104.4	100.2	334.3	341.3	101.6	98.9
		R.LPVLLGIDGSPASEVATSH									
		AFDEASRR.G	4	30.1	49.1	20.4	15.6	23.9	30.9	22.2	12.9
		R.VLLGSTSTSLLHYASGPV									
		VVHGDDQAAHDSR.L	5	333.4	348.2	10.6	15.8	102.3	97.3	7.8	12.0
MSMEG	MSMEG										
_3962	3970	K.ASGDTPVLFDSGIR.T	2	140.6	149.1	189.9	146.9	478.6	514.7	378.8	405.7
		K.HAGDTPAYFQLYYPEDR.									
		D	2	46.6	75.9	423.9	566.9	366.5	417.5	294.8	384.8
		R.DLSVELWGK.T	2	4.2	5.0	93.3	84.7	153.5	144.9	89.5	87.1
		R.DLTISNFPFLR.G	2	150.7	153.7	729.0	676.4	786.3	844.0	711.1	735.4
		R.GLC*LTNYVTDPVFQK.K	2	106.5	98.9	808.2	842.6	776.4	687.6	912.2	886.0
		R.SLLAEADLIMAVDGYR.N	2	21.1	25.1	163.9	154.7	99.2	95.9	174.5	162.2
		R.TGVPYITSTLAVSSLEDIR.									
		K	2	44.5	46.1	299.2	293.6	240.1	205.0	250.3	222.0
		R.TGVPYITSTLAVSSLEDIR									
		K.H	2	6.4	4.6	245.2	200.6	94.0	94.9	363.2	114.6
MSMEG	MSMEG										
_3980	3987	R.SLIDYLTEFAYASVK.V	2	10.7	12.9	13.7	10.5	8.0	10.4	8.5	8.5
MSMEG	MSMEG										
_4042	4047	R.EDEVTAEAGVSR.T	2	2.7	1.9	1.3	0.9	3.9	2.4	2.0	1.1
		R.LQSEGLVQLVR.H	2	104.1	102.6	148.7	142.1	137.0	114.5	129.3	154.0
MSMEG	MSMEG	K.LVSDAAQARAAAESLGYP									
_4075	4082	VVVK.A	3	1.8	2.1	46.5	29.2	10.8	12.1	64.3	61.0
MSMEG	MSMEG										
_4125	4132	R.AEWSELFQLK.L	2	28.5	27.3	16.1	12.0	39.2	34.0	19.9	18.9
MSMEG	MSMEG										
_4180	4185	K.GALSESAAEILAEAGYR.R	2	75.8	87.4	52.2	57.2	66.9	72.2	50.0	61.3
		R.IATSFPNLVR.K	2	48.5	50.0	47.4	43.8	44.4	44.1	48.8	46.8
MSMEG	MSMEG										
_4185	4189	K.AAIFAIETLFEER.G	2	6.8	5.2	1.2	2.2	25.0	13.7	4.9	3.3
		K.AVAYLLPYIEAEK.K	2	92.9	81.8	419.6	214.3	63.0	59.8	86.7	75.5
		K.ETGLADYIGAFAVTAGLG									
		SAEK.I	2	10.4	11.0	2.2	3.3	14.8	13.3	2.4	2.6

K.ETGLADYIGAFAVTAGLG											
MSMEG		MSMEG									
_4188	4192	SAEK.I	3	2.4	3.2	0.7	1.7	3.8	4.1	0.7	1.2
		R.EFENYDLSELR.Q	2	66.8	66.9	13.7	18.8	60.1	56.9	12.5	12.7
		R.EGMDIPLLIGGATTSR.A	2	38.2	36.4	11.6	10.4	33.5	35.4	5.4	9.7
		R.LSGLEPLNIDEDSLFVNIGER.T	3	5.7	10.1	21.6	21.4	5.2	9.8	5.8	6.4
		R.NVSYDQLAEAYLEAAR.G	2	49.1	44.1	13.4	10.9	48.3	48.5	11.3	11.0
		R.TPIDWDGYTPPPVAQGLG									
		IR.E	2	30.6	25.9	2.3	4.2	27.3	32.0	2.2	5.2
		R.WPVIISGTITDASGR.T	2	19.9	23.1	17.5	27.4	29.4	32.3	11.0	22.5
		K.AAVEQFANALR.L	2	23.4	12.5	57.4	39.0	19.0	22.8	47.1	59.4
		K.ADLSFGEMLSK.L	2	28.1	32.1	15.5	20.5	25.9	27.7	17.3	18.2
		K.LMLVDVDADALK.A	2	30.9	33.3	51.0	59.5	32.8	28.8	27.6	35.1
		R.SATALPEAPDATDVIAR.V	2	248.6	269.5	111.2	130.9	181.1	191.1	120.1	128.0
		R.VLPPHDYVAATDAIAEVVE									
		MVEK.L	3	118.8	127.4	72.1	76.2	65.4	72.0	41.6	56.3
		K.AVLADALGVHLDGFQR.I	3	28.9	30.6	17.4	14.8	17.3	11.9	5.4	7.7
		R.LTEVDYGSWTGR.K	2	71.0	60.2	89.9	63.6	49.5	52.4	79.2	83.0
		K.LDLPENATPAYLGFNLFG									
		HAIAR.A	3	97.1	92.8	83.5	74.3	82.9	82.7	89.5	88.6
		R.YYIAVHAVDVEK.L	2	48.2	52.6	121.4	135.6	32.6	28.4	88.4	113.1
		R.YYIAVHAVDVEK.L	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		R.AC*IKLGVADRDELAR.M	2	60.5	64.0	90.9	100.8	35.6	37.5	71.3	81.1
		-MIVVGYSADPFGR.A	2	0.4	0.4	73.1	71.9	0.2	0.9	83.1	93.8
		R.DTGLLVINATAGDAYVDA									
		R.F	2	18.3	23.7	103.2	103.4	7.2	12.1	113.6	108.0
		R.LLLEC*PKPVLAJKPHGF	3	11.6	10.0	181.7	169.4	22.0	20.0	206.0	186.6
		R.SGEVHDVEAHLQDSGPV									
		FEIR.Q	3	9.8	11.4	662.7	737.9	3.0	9.8	616.9	594.5

MSMEG	MSMEG	R.GTAFGFPGALPAGGAEL									
_4208	4214	PTFLSYITEK.R	3	36.9	39.0	83.3	129.4	6.2	29.1	18.7	77.7
MSMEG	MSMEG	K.IAAGTTGLGEFVDQIEAGQ									
_4210	4216	VR.V	2	18.2	22.3	524.4	552.0	32.9	56.2	471.1	466.3
		K.IAAGTTGLGEFVDQIEAGQ									
		VR.V	3	7.9	6.9	358.8	381.1	5.1	1.8	311.5	321.2
		K.MVEEQEGILVPGDSPFR.T	3	41.8	42.2	26.3	35.9	38.8	38.6	14.1	16.7
		K.NGWSDAFTTGPEFEQFL									
		K.D	2	8.0	7.6	146.2	163.7	6.7	6.0	88.2	114.1
		K.VSIGGGSSPGGPDHLPFM									
		ETAR.A	3	11.4	19.0	909.5	1033.2	14.8	24.9	839.1	857.6
		R.DAMVAALTELHDTDEWK.									
		E	2	26.0	22.6	174.9	185.0	22.8	22.9	78.6	106.2
		R.DAMVAALTELHDTDEWK.									
		E	3	0.7	0.4	206.3	203.3	0.7	0.3	137.6	128.5
		R.DAMVAALTELHDTDEWK									
		EAMVK.N	3	97.0	114.1	102.5	105.5	90.9	90.2	173.3	186.1
		R.IEVFNIGAGGTVAMAR.L	2	11.7	16.7	287.9	242.1	10.4	9.0	295.2	279.4
		R.M#MVPNSPGGGYDLTAR.									
		T	2	9.9	11.8	125.8	131.1	4.8	5.5	84.0	99.4
		R.MM#VPNSPGGGYDLTAR.									
		T	2	9.8	11.8	124.1	130.1	4.8	5.4	82.0	98.3
		R.MMVPNSPGGGYDLTAR.T	2	36.8	40.3	603.8	576.1	48.2	50.1	536.7	552.2
		R.TIDDLVAAWK.A	2	0.3	0.1	318.5	214.3	0.7	0.6	297.1	289.8
		R.TVNYITYDGDDLLTALLG									
		K.K	2	34.9	42.1	222.6	216.0	8.6	17.6	212.6	199.6
		R.VPGVDAPTLTEAGIDMTF									
		TNWR.G	2	2.8	2.6	175.0	197.6	1.7	5.5	141.2	157.0
		R.VPGVDAPTLTEAGIDMTF									
		TNWR.G	3	49.4	51.7	119.7	128.9	51.1	58.8	78.1	92.6
MSMEG	MSMEG	K.TYLESQLEELGQR.G	2	354.1	363.4	568.7	573.9	344.1	323.1	541.3	510.1
_4217	4223	R.AQAEAMVSDAR.Q	2	5.7	3.7	7.7	4.9	1.8	1.1	1.4	0.7

		R.GSAAPVDSSANSDASGF									
		GQFNR.G	2	201.5	135.5	316.9	196.2	260.9	256.2	317.0	368.3
		R.GSAAPVDSSANSDASGF									
		GQFNR.G	3	101.2	84.3	172.9	125.0	100.1	141.9	141.4	228.9
		R.GYNEDEVDAFLDLVENEL									
		TR.L	2	82.0	97.9	122.7	163.9	24.3	43.5	38.3	67.8
		R.GYNEDEVDAFLDLVENEL									
		TR.L	3	33.7	49.1	53.6	77.9	11.4	22.6	15.5	34.3
		R.LIEENADLR.Q	2	10.5	8.1	11.0	9.4	6.8	5.7	6.8	5.5
MSMEG _4222	MSMEG 4228	K.AAEDAKDDIEELL.R.G	2	58.8	64.8	221.8	228.0	56.5	54.4	253.9	273.6
		R.KAAEDAKDDIEELL.R.G	3	11.3	8.4	12.6	12.4	13.8	12.6	24.7	19.1
MSMEG _4237	MSMEG 4241	R.LLQMGDAAVSLMDAFR.S	2	106.2	104.2	95.6	91.2	39.4	32.4	41.9	45.3
		R.MLDQIESALYAEDPK.F	2	27.3	28.2	12.6	15.6	14.5	19.6	12.1	16.6
MSMEG _4240	MSMEG 4244	R.DALDVLAANVHPQAK.A	3	39.6	33.2	17.9	17.2	36.9	41.8	12.1	11.9
		R.PLQLGAAAAADRPDVQEL									
		FHR.I	4	98.9	89.6	79.8	62.8	84.8	81.8	66.7	64.8
		R.SVIEPADAVAGPDVLR.L	2	320.3	355.3	360.4	381.8	227.7	209.4	320.0	327.2
		R.TVLLAEALELADASDPAAA									
		ALLR.R	2	82.8	78.6	75.7	74.1	55.2	75.5	44.3	70.5
		R.TVLLAEALELADASDPAAA									
		ALLR.R	3	60.3	62.3	47.0	63.6	59.3	62.0	53.3	53.0
MSMEG _4244	MSMEG 4247	K.LGPTTTPELAVEYVER.L	2	364.5	351.8	262.4	271.1	327.3	331.6	276.4	284.2
		R.TSVTWSLVSSLLR.S	2	16.6	20.7	22.2	28.1	16.9	11.6	28.3	21.4
MSMEG _4251	MSMEG 4254	K.GC*QLTHSNLLHEIR.G	3	108.2	93.6	161.2	109.4	57.9	53.4	113.9	73.6
		K.SSDPATLIYTSGTTGQPK.									
		G	2	190.8	161.2	149.1	138.9	89.0	94.2	102.0	117.7
		K.VTLGFTSDIK.N	2	23.4	18.2	26.8	11.3	15.8	12.0	15.9	8.2
		R.AALGGEC#HAAISGGAPL									
		GER.L	3	98.6	84.9	107.0	108.0	82.8	79.6	67.3	53.7

		R.DGTFVHVDVVPEHKEDP									
MSMEG	MSMEG	TGIGDAFR.A	4	167.0	149.0	212.7	204.1	187.1	172.6	189.6	213.1
_4272	4275	R.M*SAPYVQGATIDFVDTIE									
		K.Q	2	26.3	26.0	1.1	1.9	11.4	11.0	0.4	0.6
		R.MSAPYVQGATIDFVDTIEK									
		.Q	2	33.7	33.7	2.8	5.3	20.7	19.0	5.6	4.2
		R.TLDGDLTAEFGGVTLTV									
		R.M	2	57.1	61.8	3.7	11.8	41.6	48.1	4.5	6.5
		R.YNLFFDDR.T	2	58.0	56.2	7.3	6.8	38.7	39.6	3.3	4.3
MSMEG	MSMEG	K.NNDDDKNVASDAADSAV									
_4273	4276	DEQNGPAAEDRPR.T	4	13.7	17.2	7.8	10.0	13.1	17.2	6.7	10.2
MSMEG	MSMEG										
_4276	4280	K.GGIKPVSVWLSHEYVR.A	3	94.6	98.6	159.6	141.2	51.7	58.2	136.0	167.2
		R.LAIPELPEEVFIESLR.Q	2	505.0	445.9	494.7	459.0	303.1	293.9	419.2	379.7
		R.LAIPELPEEVFIESLR.Q	3	40.5	42.9	38.5	49.6	26.5	24.9	44.7	31.9
		R.LVTPELSGSLLPGITR.D	2	460.9	414.1	481.3	452.7	373.3	350.0	469.6	433.7
		R.RLAIPELPEEVFIESLR.Q	3	14.6	13.8	11.9	8.7	32.9	27.2	35.5	23.7
		R.YLLIASPAGAYFK.G	2	78.1	66.7	137.0	146.4	65.9	41.8	79.8	195.0
MSMEG	MSMEG	K.GPGAAAYVNSALTNDLGK									
_4278	4281	.I	2	269.4	260.1	288.7	295.7	126.4	114.1	132.4	140.2
		R.AGVVF DALVA AVR.A	2	75.1	62.2	30.3	26.7	37.1	32.8	23.2	25.2
		R.STVGLFDVSHLGKA	2	109.7	92.5	170.4	169.2	73.5	71.6	147.5	175.0
		R.VGTTSGTFSPTLK.V	2	265.5	242.7	211.5	235.9	123.1	121.6	189.4	214.5
MSMEG	MSMEG										
_4281	4283	K.GITFD TGGISIK.P	2	82.0	77.7	190.4	137.2	55.8	59.5	94.1	109.3
		K.GPGLTAITVLAHDTK.A	2	303.4	237.9	140.4	137.6	138.1	141.9	276.8	285.9
		K.GPGLTAITVLAHDTK.A	3	395.6	269.5	123.0	71.1	205.3	184.6	206.7	159.8
		K.LLTPAPFFDATVVT AIESG									
		LR.A	2	596.9	640.4	237.9	239.1	168.9	255.4	181.8	277.4
		K.LLTPAPFFDATVVT AIESG									
		LR.A	3	333.1	379.9	134.8	159.5	138.3	158.4	143.8	190.8
		K.LSQDVGENGPMPMLPEE									
		LRDDLK.S	3	447.8	423.8	122.6	127.1	163.3	139.4	56.8	64.9
		R.DFVNTPPSHLFPDEFAK.R	2	531.6	617.9	153.7	177.4	208.0	225.3	160.8	185.0
		R.FAGMLVAGTYLR.E	2	124.9	103.9	16.6	13.6	22.4	32.1	14.8	24.2
		R.GVDIATAVATAR.D	2	59.0	42.2	17.8	17.2	15.8	12.1	111.9	130.9

		R.LILADAIVR.A	2	62.1	41.9	30.8	23.8	28.7	20.5	15.8	12.2
		R.LVVDALPVGSVLAVGLGK.									
		D	2	1705.9	1623.2	699.8	653.4	678.4	581.7	707.7	608.2
		R.LVVDALPVGSVLAVGLGK.									
		D	3	146.0	152.3	28.7	28.5	63.3	49.5	39.9	32.3
MSMEG	MSMEG	K.AEPAPAASSDGSPYVTPL									
_4283	4286	VR.K	2	1581.2	1581.6	2298.1	2277.0	1669.5	1927.3	2454.4	2972.1
		K.AEPAPAASSDGSPYVTPL									
		VR.K	3	258.3	364.5	481.3	567.4	262.4	370.8	580.1	638.3
		K.IGDAGAAAEPKPEPKPEP									
		K.A	3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0
		K.IGDAGAAAEPKPEPKPEP									
		K.A	4	1.3	1.4	0.9	1.1	1.0	1.7	0.7	1.8
		K.IHPNVNASYNEDTK.E	2	2.0	0.7	2.3	0.7	3.0	2.1	4.3	2.9
		K.IHPNVNASYNEDTK.E	3	9.4	5.8	11.5	7.4	8.3	8.8	11.2	11.3
		K.LAAENGIDLSTVK.G	2	138.7	112.2	275.3	251.1	126.3	98.8	282.0	197.7
		K.QAPAASPAAAAPAAPAAA									
		SATPAPALAHLR.G	3	474.5	467.4	662.5	642.0	588.8	741.4	935.7	1100.7
		R.EGVNLTFLPFIAR.A	2	70.1	76.1	99.7	110.8	368.3	312.1	525.8	484.0
		R.ESLQATAQLTQTTHEVDM#									
		TK.I	3	245.0	231.8	358.2	310.7	203.5	185.2	305.0	264.4
		R.ESLQATAQLTQTTHEVDM*									
		TK.I	3	242.9	230.0	357.4	309.6	200.7	183.5	302.5	263.7
		R.ESLQATAQLTQTTHEVDMT									
		K.I	2	87.2	80.8	95.4	81.8	71.2	108.8	103.0	138.1
		R.ESLQATAQLTQTTHEVDMT									
		K.I	3	838.1	813.0	1122.8	1173.7	705.7	846.3	924.5	1261.3
		R.KLAAENGIDLSTVK.G	2	29.6	27.6	305.0	267.2	55.1	37.6	443.2	326.9
		R.LEEGAFEADLGL	2	7.0	10.6	15.0	19.4	21.7	6.4	27.5	18.1
		R.RLEEGAFEADLGL	2	366.4	370.9	791.3	779.0	536.1	402.8	1207.5	903.3
		R.SVC#YLPLTYDHR.L	2	453.1	416.6	592.0	513.4	449.3	477.5	702.7	679.3
		R.SVC*YLPLTYDHR.L	2	452.9	416.6	542.7	466.7	449.3	477.5	694.9	679.3
		R.VIVDEYGNEIGVR.S	2	499.8	461.7	803.9	724.1	633.7	580.4	1056.6	957.3
MSMEG	MSMEG	R.VIGRPGVIFVGEGAPNR.V	3	47.5	43.4	29.1	17.6	72.9	75.7	31.3	38.1
MSMEG	MSMEG	R.LGLPEDGPGSIAR.T	2	13.7	15.4	6.3	7.0	14.6	20.8	2.6	7.6

MSMEG	MSMEG	K.DGQPLFHDESGYAGLSDI									
_4290	4293	AR.H	2	546.6	628.0	2076.3	2438.5	429.4	496.6	2056.0	2296.7
		K.DGQPLFHDESGYAGLSDI									
		AR.H	3	1281.9	1288.9	5231.3	5510.4	978.5	980.5	4446.5	4487.0
		K.FNTLLAAADDVLLFK.Y	2	452.3	449.3	1924.0	1900.7	475.5	406.0	2028.8	1721.5
		K.FNTLLAAADDVLLFK.Y	3	138.1	179.5	490.6	602.8	193.3	175.4	726.5	687.2
		K.GGYFPVAPYDHYVDLR.D	2	883.4	975.3	2947.7	3292.6	731.6	766.4	2940.5	3067.4
		K.LIKDENVEYVDIR.F	2	474.2	478.9	1675.7	1727.2	505.2	452.1	2068.2	1901.2
		K.LIKDENVEYVDIR.F	3	719.0	736.2	2386.3	2504.4	737.7	693.8	2747.0	2595.3
		K.PLFGDNGSGMHAHQSLW									
		K.D	2	44.5	56.8	142.1	178.2	15.5	22.3	117.4	128.8
		K.PLFGDNGSGMHAHQSLW									
		K.D	3	191.2	167.8	475.9	439.1	83.1	106.4	287.3	373.5
		K.PLFGDNGSGMHAHQSLW									
		K.D	4	196.2	193.9	716.2	671.5	137.8	140.5	639.7	616.5
		K.TLNM#NFFVHDPFTR.E	3	70.7	75.3	154.3	148.7	39.0	42.9	143.3	147.6
		K.TLNMNFFVHDPFTR.E	2	1121.5	1090.0	834.2	844.4	271.1	271.1	712.9	639.6
		K.TLNMNFFVHDPFTR.E	3	30.6	22.5	10.8	12.7	1.9	0.7	16.4	16.5
		R.DQM#ATNLQNAGFTLER.									
		G	2	235.5	265.1	404.4	418.8	141.1	180.1	444.6	426.3
		R.DQM*ATNLQNAGFTLER.									
		G	2	432.4	462.7	1274.3	1222.9	284.5	334.5	981.3	1012.6
		R.DQMATNLQNAGFTLER.G	2	1008.4	1006.7	3346.9	3269.1	601.7	574.9	2193.4	2155.9
		R.DQMATNLQNAGFTLER.G	3	36.6	40.0	133.7	123.7	14.8	18.4	81.1	100.3
		R.GFQSIHESDMMLLPDPNT									
		AR.I	2	96.1	124.0	308.6	368.5	6.1	12.2	66.7	105.0
		R.GFQSIHESDMMLLPDPNT									
		AR.I	3	499.0	456.6	1837.3	1755.9	180.9	188.1	876.4	863.9
		R.GHEVGTAGQAEINYK.F	2	25.9	14.3	86.3	51.6	26.2	16.9	106.5	72.8
		R.GHEVGTAGQAEINYK.F	3	202.0	157.4	565.5	466.3	166.5	163.9	531.0	556.8
		R.LVPGYEAPINLVYSQR.N	2	2293.8	2357.9	8525.9	8595.4	1951.0	2008.7	8551.6	8802.9
		R.LVPGYEAPINLVYSQR.N	3	507.3	484.9	1640.8	1647.5	491.0	477.3	1921.8	1841.6

		R.PHPYEFSLYYDV	2	225.2	235.0	1300.0	1506.7	183.1	186.7	1365.2	1307.1
MSMEG	MSMEG	R.RPSWNAAAPGSVAEPLV									
_4291	4294	TEFTEALR.R	3	29.1	12.0	48.0	16.2	21.8	23.9	37.2	39.8
MSMEG	MSMEG	R.APEVIQMYADGPSGPK.L	2	16.8	27.8	84.5	100.6	16.3	22.5	84.2	92.7
_4293	4296	K.SFIAGILEHANEISAVTNQ									
MSMEG	MSMEG	WVNSYK.R	3	97.1	128.8	249.4	314.1	55.3	103.5	176.0	275.1
_4294	4297	R.LWFTDVLGYLK.S	2	122.2	115.8	254.0	253.4	166.6	151.1	344.6	314.9
		R.VFESDTVARPDPSTFQVL									
		PWK.T	3	195.0	182.6	433.7	406.0	320.8	306.8	679.3	659.4
		R.YADALSMADNVMTFR.Y	2	49.9	48.0	127.5	124.9	16.4	15.6	30.5	26.8
MSMEG	MSMEG	K.GAPHALVIGDLPFGSYED									
_4298	4301	GPSQALATATR.F	3	1834.9	1352.4	109.8	140.5	8312.1	8667.8	75.0	104.6
		K.GAPHALVIGDLPFGSYED									
		GPSQALATATR.F	4	171.1	157.3	100.7	74.7	632.4	642.3	176.9	115.3
		K.WAM*LTC#YDYSSAR.V	2	19.5	22.5	2.4	1.9	91.3	108.6	4.6	2.5
		K.WAMLTC#YDYSSAR.V	2	236.4	268.4	6.5	6.8	721.8	815.2	17.3	15.4
		R.AATQFADDVAAGVFPAEE									
		HSY	2	1209.1	1289.8	1.2	1.2	4244.8	4475.2	2.5	1.0
		R.AATQFADDVAAGVFPAEE									
		HSY	3	1516.7	1630.8	27.8	31.7	5285.7	5456.9	91.9	47.5
		R.FGDVGGELHR.A	2	1.6	1.8	1.2	0.4	7.3	5.8	1.5	1.0
		R.RFGDVGELHR.A	3	15.4	13.1	0.1	0.0	25.7	21.3	0.0	0.0
		R.VADQIATLSR.A	2	6.9	4.6	2.2	1.6	29.9	38.1	2.0	2.3
MSMEG	MSMEG	K.VGLSPDGASYYLPR.L	2	160.7	169.6	47.2	45.6	129.8	138.6	47.7	46.3
_4299	4302	R.ITLNRPDAANGMNDTMTR									
		.E	3	50.5	52.0	16.4	18.9	28.7	37.2	6.6	14.3
MSMEG	MSMEG	K.ELGASDVPTFAAPNFAY									
_4301	4304	ELAAHR.G	3	205.3	213.9	163.1	183.9	215.4	206.1	118.7	135.8
		K.GYWGRPHETEVSFHNK.L	4	12.3	11.7	6.8	7.5	8.8	11.7	2.2	4.7
		R.LPQGSHAAGAPDGAAWF									
		R.T	3	127.3	117.3	17.6	20.4	112.3	110.3	8.9	13.7
MSMEG	MSMEG	R.ALASAPGAPS DTPEPAQP									
_4302	4305	TDALHR.A	3	124.6	127.3	182.0	190.6	94.1	111.1	183.4	206.3

MSMEG	MSMEG										
_4306	4311	R.DALVNAIDDQLVELYEK.Q	2	26.0	31.2	25.0	24.9	30.6	35.1	29.6	31.0
		R.LAALGIALEDLDAQVAK.Y	2	28.1	26.5	40.4	43.8	46.8	41.6	43.5	43.8
MSMEG	MSMEG										
_4313	4318	R.ALIGADPVLDER.T	2	247.7	233.0	208.0	210.2	225.5	214.8	227.2	209.4
		R.DLAVSGPWFYR.A	2	74.2	81.4	59.5	64.7	57.3	69.3	64.8	66.7
		R.LDELGIAHGGIVDAPYGS									
		GLSFR.D	3	538.8	583.9	449.8	474.6	443.9	463.4	464.9	444.1
		R.TDAGFHHIVWALPGGTLF									
		GIHQHDK.R	4	47.2	0.0	30.1	0.0	27.4	31.6	21.6	27.6
		R.VGLDHVSFGVGSR.D	2	45.1	43.2	54.0	57.1	28.2	30.3	29.4	44.9
		R.VGLDHVSFGVGSR.D	3	147.4	149.2	81.5	80.3	117.0	127.4	79.2	85.0
MSMEG	MSMEG										
_4320	4325	K.VWTAALQALR.A	2	19.3	0.0	97.0	0.0	18.4	21.3	55.5	57.9
		R.DYGVFNEDAGYPNR.G	2	31.4	33.5	30.8	37.0	22.5	23.7	13.6	21.1
MSMEG	MSMEG	R.LMDAITPLAEDGVIWVLTP									
_4321	4326	K.T	2	36.8	43.2	60.9	73.2	29.7	35.8	62.1	74.1
MSMEG	MSMEG										
_4323	4328	K.ALVADM#SDQEIWNLK.R	2	25.3	22.9	239.9	210.2	10.1	8.2	324.4	245.0
		K.ALVADM#SDQEIWNLK.R	2	150.7	138.7	248.5	230.7	109.4	93.3	267.3	213.3
		K.ALVADM#SDQEIWNLK.R	3	26.3	26.7	38.2	36.5	60.2	47.1	69.4	63.1
		K.DTSDQHVWAFLGDGEMD									
		EPESR.G	3	370.2	399.6	215.8	227.8	312.3	299.7	131.2	186.2
		K.IIQELESFFR.G	2	368.3	360.7	604.2	545.9	368.3	285.3	770.7	554.5
		K.SAQILASGVAM*PEALR.A	2	392.5	411.8	516.6	513.6	330.8	344.8	538.0	536.1
		K.SAQILASGVAMPEALR.A	2	521.2	541.3	644.0	634.1	486.4	500.5	657.2	638.8
		K.SHPGGGDHVFIQGHASP									
		GIYAR.A	3	33.8	27.1	78.2	70.8	35.0	45.6	72.5	87.1
		K.SHPGGGDHVFIQGHASP									
		GIYAR.A	4	150.7	156.1	187.0	191.0	120.9	174.4	188.7	264.9
		R.AVPEQIRPWVPGTYVTLG									
		TDGFDFSDTRPAAR.R	4	407.6	455.4	689.4	731.3	276.4	444.9	671.5	977.0
		R.EWDVLLHADR.D	2	81.0	78.1	94.2	88.2	60.4	51.8	84.9	78.9

		R.IDDVSAAGVSYADTGSA	2	55.2	82.0	111.6	170.7	31.8	50.9	88.6	138.5
		R.LTTDQLDGFR.Q	2	21.3	19.4	33.2	27.9	14.0	10.8	22.0	22.0
		R.TFGMDSWFPSLK.I	2	150.3	159.3	205.8	214.3	101.7	106.7	197.3	202.1
		R.TGDGLWAAADQMAR.G	2	528.1	539.1	496.0	509.6	484.3	461.1	348.3	347.8
		R.VPVSDAQLEEDPYLPPYY									
		HPGPEAPEIR.Y	3	702.3	747.0	1029.1	1104.4	523.2	564.5	879.5	1083.4
		R.YFNTDAESVVAVLQGLA									
		R.D	2	80.9	95.8	103.7	113.5	45.8	83.4	87.2	128.0
		R.YFNTDAESVVAVLQGLA									
		R.D	3	73.5	96.9	119.9	161.4	55.5	68.9	120.0	145.6
MSMEG	MSMEG										
_4325	4330	R.LEALDLVPANR.N	2	206.3	215.5	97.9	95.2	245.1	225.4	78.1	66.2
		R.NAAGQIVAAAGAVAALDK.L	2	321.0	328.7	381.2	396.0	338.8	320.6	546.9	500.5
		R.NAAGQIVAAAGAVAALDK.L	3	31.3	33.9	11.4	11.4	47.0	39.0	6.6	7.5
		R.WDLC#TATLR.D	2	30.8	35.7	14.6	13.0	28.0	30.2	5.3	9.6
MSMEG	MSMEG										
_4326	4331	K.IPDEDLAGLR.T	2	184.7	155.3	195.0	173.4	202.7	249.3	249.2	286.4
		K.LEEENPEAAAALR.E	2	96.6	86.5	117.2	102.8	104.5	122.1	141.7	147.8
		R.TVGDVVAYIQK.L	2	727.1	824.0	814.6	950.7	731.2	746.7	976.0	936.2
		R.TVGDVVAYIQK.L	3	0.0	0.0	17.4	14.8	0.0	0.0	25.1	20.2
MSMEG	MSMEG	K.GALGHSGVAGVGAVESILT									
_4328	4334	VLALR.D	3	6.0	8.8	9.1	10.9	0.3	0.8	0.2	0.7
		R.AIELAGLKPTDIDHVNAHA									
		TGTNVGDVAESK.A	4	688.6	872.7	590.3	602.1	667.3	669.0	663.2	638.9
		R.IGGHLLEEFDSLTR.V	2	134.2	127.3	135.2	141.1	68.4	88.5	128.7	148.4
		R.IGGHLLEEFDSLTR.V	3	64.5	48.1	46.8	33.0	42.9	57.3	47.6	55.9
		R.NNNLDPEIDLDVVAGEP									
		R.Q	2	183.8	192.9	235.9	272.2	151.8	144.7	204.2	225.3
		R.TLTDPFVEEYNLPVR.I	2	740.1	710.1	836.4	788.0	711.9	684.2	871.1	847.8
MSMEG	MSMEG										
_4329	4335	K.WAPSIVVGLGR.L	2	59.9	46.6	17.6	15.2	69.6	62.3	45.4	44.0
		R.AYDVHPLVHALLDEGVPF									
		EEFQAQK.W	3	175.7	159.2	134.4	127.8	198.4	204.0	180.4	214.6
		R.EALHEQLAVEHEK.I	2	2.6	1.1	0.7	0.4	3.2	1.7	1.7	0.3
		R.LSTFFDDGSVELLHER.D	2	102.4	107.3	260.5	242.4	207.1	167.4	189.9	233.5

MSMEG	MSMEG	R.GVNVAVHYNSASTEADAD									
_4330	4336	K.T	3	3.7	3.4	7.5	5.4	6.3	4.9	8.0	5.3
MSMEG	MSMEG	K.LLGGADAAGFGVTSTVSD									
_4337	4343	LAR.F	2	87.8	85.4	59.8	58.2	69.6	76.0	78.9	82.8
		R.YLTEAVFEPLGMSTSK.L	2	233.5	251.2	90.5	91.2	222.5	231.4	100.7	107.2
MSMEG	MSMEG										
_4340	4346	K.LEM*PLIDFFSR.G	2	102.6	99.7	62.3	59.9	73.5	70.4	65.1	64.6
		K.LEMPLIDFFSR.G	2	296.2	276.4	332.3	302.3	210.5	166.5	349.6	271.3
		K.MTLTDGTELTPALGIGAFA									
		DK.T	2	321.1	332.9	308.2	300.4	187.6	173.6	282.2	271.3
		R.DFPTLISLYLQGR.L	2	301.6	267.4	297.2	280.8	227.9	188.7	348.1	294.5
		R.GRPHLC#FDTFNATQK.M	3	28.5	20.9	14.1	7.4	44.9	32.0	82.7	55.2
		R.GRPHLC*FDTFNATQK.M	3	25.5	18.0	14.1	7.4	44.6	30.8	81.3	54.9
		R.IGLDGIEDAFHK.M	2	191.0	195.6	169.7	169.7	137.0	136.2	153.0	137.1
		R.IGLDGIEDAFHK.M	3	279.1	233.4	197.9	152.7	208.4	189.2	247.1	197.2
MSMEG	MSMEG										
_4342	4347	R.SYSDFPTILDSIK.N	2	184.7	235.7	189.5	190.2	99.3	98.2	268.0	237.7
MSMEG	MSMEG										
_4358	4364	K.TALVTGASAGLGAAVAK.L	2	28.3	34.3	48.5	113.3	28.6	37.6	54.3	53.1
MSMEG	MSMEG	R.TVVSAAVDDGDAEGVDA									
_4362	4368	THHV.K.R	3	33.7	40.5	59.9	60.5	31.2	31.6	46.8	50.5
		R.TVVSAAVDDGDAEGVDA									
		THHV.K.R	4	26.4	25.8	39.3	38.7	28.1	26.8	45.4	42.0
MSMEG	MSMEG	K.FGYSPEQAYLLLGAAPIEG									
_4367	4372	R.L	2	152.6	168.5	548.1	591.2	130.7	134.6	610.7	601.0
		R.HIPGVEFTGIVHPGLMGT									
		APSAGLLAK.W	3	258.2	208.3	543.7	511.9	79.5	96.6	244.0	275.2
		R.VPPLALPPEPQDAILGGLT									
		GDAFTK.A	2	107.2	131.4	404.9	451.6	38.4	79.0	326.5	415.9
MSMEG	MSMEG	R.IKPGTVLTLWTEDAYGGR.									
_4381	4385	I	3	18.2	19.8	58.4	67.4	6.3	7.0	31.9	53.3
MSMEG	MSMEG										
_4396	4399	K.ALGFPPNNVASIPPLAK.H	2	212.3	203.5	498.0	438.2	277.2	276.7	841.7	932.1
		K.ALQTAFVGTDLPGTLIR.Q	2	454.0	474.4	221.2	231.4	482.0	507.6	135.6	150.0
		K.NFTSFNWIGFSVFR.D	2	25.7	22.1	5.6	5.3	15.1	19.7	5.0	3.4

		R.DHGLLPIVIGDATGAAHPD									
MSMEG _4401	MSMEG 4404	HER.A	3	119.0	122.6	243.3	254.6	125.5	135.6	133.1	135.4
		R.ELVEPGDNELF.EK.A	2	399.7	395.3	18.8	22.2	433.9	437.6	10.4	15.8
		R.PAAFSLSVSQNSNSLYR.P	2	76.2	87.2	121.5	123.5	34.4	37.9	84.4	85.6
		R.PAAFSLSVSQNSNSLYRPGG									
		VQYAEGHAFR.G	4	270.0	308.4	13.4	20.1	356.7	376.9	23.9	37.8
		K.AAYAEHPPVPLPGVPDAI									
		R.D	3	157.1	165.3	76.3	91.2	114.0	113.4	77.0	87.7
		R.ALLAPADDAALQVIVEDFR									
		.A	2	118.6	129.7	102.0	109.7	82.8	89.5	78.0	88.3
		R.ALLAPADDAALQVIVEDFR									
		.A	3	46.2	45.0	17.4	16.7	31.4	30.0	15.0	13.1
		R.VLEQTVVVAHGGTPSEADI									
		AK.W	2	25.2	23.8	14.1	13.0	20.6	18.3	14.2	12.1
		R.VLEQTVVVAHGGTPSEADI									
		AK.W	3	505.6	503.0	348.6	369.0	332.9	368.4	303.4	324.9
MSMEG _4454	MSMEG 4449	R.RPELFEGIHFAQK.Q	3	24.5	28.7	0.1	1.0	1.3	3.3	0.9	0.2
MSMEG _4463	MSMEG 4458	R.FNESPLDLLR.R	2	14.6	17.7	3.6	5.8	7.9	8.7	3.4	6.9
		R.YTQPTGSVEVNAK.R	2	7.1	4.8	9.5	7.9	2.6	2.1	5.0	4.0
MSMEG _4471	MSMEG 4466	K.LLADVAEHPLPEEN	2	38.4	45.4	73.8	83.8	28.9	34.0	58.0	59.5
MSMEG _4474	MSMEG 4469	K.AGVQWGLFGGAIENLGTE									
		R.H	2	58.9	65.0	51.4	71.7	55.2	58.5	58.6	84.3
		K.ELLTAYADDIK.G	2	107.6	97.2	66.5	60.8	92.6	68.8	100.5	65.8
		K.SYALQFAQNELVAK.C	2	260.1	253.2	260.7	261.0	212.3	194.8	297.0	264.2
		R.ADTDVFVTTFEGDNHVLTQ									
		LVAK.E	3	170.6	170.8	181.1	181.1	151.7	125.3	234.5	189.9
		R.ENLSNEVFRPHYTPNTAIA									
		R.A	3	70.5	74.4	44.6	51.4	73.0	73.7	57.6	74.0
		R.FFTMLGTLIR.G	2	31.2	34.0	43.6	50.4	22.3	19.5	53.6	46.8
		R.TAAQTIQQTILDTR.Q	2	270.7	216.1	323.8	264.5	270.5	167.0	466.5	309.8
		R.VTVGGSAAAAAR.V	2	7.6	5.3	5.2	3.3	4.5	3.5	4.5	3.8
		R.YADVSPEGVYSSPIENPG									
		R.R	2	134.8	142.7	135.0	132.6	58.5	85.4	90.6	117.7

MSMEG	MSMEG											
_4475	4470	K.LPAPHGGSQWVQVR.D	3	11.8	8.5	15.9	13.0	6.0	8.4	12.5	16.3	
MSMEG	MSMEG											
_4476	4471	K.AVLYQLQESVDTD.K.L	2	19.2	0.0	15.7	0.0	15.6	17.0	8.6	5.6	
MSMEG	MSMEG	K.FGFQGNPWGELEGVANR										
_4485	4480	.T	2	321.2	307.9	266.2	276.6	283.4	226.3	302.9	278.1	
		K.HSGVDLSFYDQAADTR.Y	2	87.7	89.4	46.3	52.2	45.5	44.6	29.2	31.1	
		K.SAWDYGPLGVELK.E	2	189.9	214.0	125.3	147.3	153.8	140.4	86.0	113.3	
		R.GLVYQSGEIYGGTK.S	2	95.4	115.6	78.5	107.1	55.3	56.8	59.3	65.1	
		R.YVPYVIEPAAGLTRS.S	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MSMEG	MSMEG	K.TISNLTEHGEAHDHAGTP										
_4486	4481	APALPSR.D	4	17.7	17.8	8.4	9.0	22.2	19.4	8.3	8.4	
		R.DVLETAGELL.R.A	2	8.1	8.7	2.7	2.9	8.9	10.0	8.1	8.4	
MSMEG	MSMEG											
_4487	4482	R.AAIADLLNETEGFR.S	2	453.1	513.7	37.8	43.3	392.8	402.7	36.7	35.0	
MSMEG	MSMEG											
_4489	4484	R.YNFPAAGLTDDALR.T	2	28.4	33.5	58.8	56.4	35.5	35.8	63.9	56.6	
MSMEG	MSMEG											
_4490	4485	R.ADIPDVDLFIR.T	2	27.4	27.6	30.0	24.1	25.7	21.7	10.2	8.7	
MSMEG	MSMEG	K.RPLIDGPAPEPVTRPIDHV										
_4527	4520	GVQK.L	3	60.1	56.9	19.0	15.1	20.3	28.3	18.0	20.9	
		K.RPLIDGPAPEPVTRPIDHV										
		GVQK.L	4	138.8	146.1	12.4	19.0	45.7	64.0	2.6	8.6	
		K.VLSSELG DYIER.V	2	140.0	162.2	204.4	201.5	74.1	67.1	102.4	102.0	
MSMEG	MSMEG	R.AGLDALGLPSTPSHWR.R	3	63.5	61.2	4.3	2.0	53.2	44.7	1.3	2.3	
_4528	4521	K.GYSAWVTGIR.R	2	34.6	32.2	2.5	5.0	16.0	20.1	3.1	1.9	
		R.GAAELADASAEELL.R.W	2	135.5	160.2	57.7	53.3	106.9	103.2	63.3	71.0	
MSMEG	MSMEG											
_4533	4526	K.GIPFGSVVSLVVR.Q	2	271.2	254.4	191.0	173.2	218.7	192.9	144.8	105.9	
		K.IENPVAVVNTTSHSEAANA										
		LK.N	3	953.3	1101.5	805.0	869.8	726.1	845.1	690.5	891.4	
		K.IWAEAGFRPVDPAVAEEF										
		AADFPAPEK.L	3	163.8	200.0	50.4	58.8	91.2	114.5	34.1	45.2	
		K.PADIVNFSVEPDVTR.L	2	210.7	205.9	153.9	163.1	199.5	176.2	81.1	97.0	

		K.WNLLAPYAAK.S	2	48.5	50.6	42.0	28.1	43.3	43.4	84.6	62.3
		R.AVDGKPADIVNFSVEPD									
		VTR.L	3	462.4	478.9	311.2	339.8	549.1	376.0	366.7	332.7
		R.PVDPAVAAEFAADFPAPE									
		K.L	2	33.6	38.9	16.5	27.3	37.6	45.8	2.1	5.8
		R.PVDPAVAAEFAADFPAPE									
		K.L	3	26.0	22.6	19.5	27.5	9.6	12.5	2.2	12.4
MSMEG	MSMEG	K.ASDGPLTVTAPVPYAAGP									
_4535	4528	TLR.N	2	17.0	21.3	39.9	47.6	25.3	38.5	53.8	107.4
		K.GLTYSPTGALLAAPTTSLP									
		ETPQGER.N	2	66.0	88.1	96.4	130.7	29.4	59.5	46.9	95.3
		K.GLTYSPTGALLAAPTTSLP									
		ETPQGER.N	3	240.4	290.2	379.0	424.5	151.7	200.8	293.7	348.0
		R.ATVLAIADELTEDGLVLR.Y	2	231.9	226.6	401.8	371.2	268.4	229.0	501.0	425.5
		R.DALVMGPWHIDITR.S	2	85.5	83.5	137.1	142.5	58.8	75.4	107.8	140.9
		R.DALVMGPWHIDITR.S	3	71.9	65.8	77.1	71.2	73.4	80.0	67.8	67.6
		R.DSTFALWGLYTLGLDR.E	2	28.2	35.2	48.6	61.0	25.3	38.3	46.8	75.8
		R.EADDFFSFIADVSGANNG									
		ER.H	2	91.0	91.2	156.2	153.8	75.1	84.7	141.7	161.0
		R.HLGNFPQAFTHLALINAVV									
		HVIR.A	4	14.5	20.3	20.0	29.7	8.2	12.7	16.1	21.9
		R.LGPYGVSVPAAR.R	2	153.2	99.9	220.0	153.3	152.7	63.4	260.5	105.4
		R.LLSFASPLHLYAEEIEPR.T	2	43.7	40.9	61.2	61.8	43.7	33.5	70.4	50.1
		R.LLSFASPLHLYAEEIEPR.T	3	237.0	271.6	434.2	427.2	236.5	181.3	480.0	356.5
		R.LTEGDNVFVALSWSK.H	2	55.3	57.7	147.5	150.8	73.1	52.3	175.0	133.3
		R.SLVEEEELHHLSGYDNSR.P	3	63.9	69.9	102.0	110.6	40.7	28.6	69.6	57.2
		R.SLVEEEELHHLSGYDNSRP									
		VR.I	4	60.9	53.1	63.6	80.9	70.3	90.1	91.4	123.7
		R.TPMDWDAEHILLR.T	2	127.2	130.7	202.8	183.3	105.4	90.9	253.9	174.4
		R.TPMDWDAEHILLR.T	3	58.2	54.8	182.1	173.8	56.0	42.7	212.9	155.6
		R.VSATWEYSGPAYGEAIAR									
		.A	2	214.1	209.7	396.4	382.8	159.6	199.9	313.5	365.5

MSMEG	MSMEG	R.YGDDALDASLLLAVLTR.F	2	79.7	72.7	134.0	121.6	82.9	91.1	161.1	162.1
_4553	4547	R.SEPDSMVVAATAGEATK.H	2	18.6	21.8	10.2	12.8	10.9	15.8	5.1	4.8
		R.TDTTPALSPVAANLEAVA									
		EKL	2	78.3	83.4	88.1	89.3	85.4	84.7	80.8	75.3
MSMEG	MSMEG	R.SELEFLQPGALLESLETR.L	2	12.7	13.6	49.3	51.7	8.1	6.5	33.2	35.2
_4569	4566	R.VALPENSLVVNNSQGGGS.K.D	2	100.0	102.4	163.6	181.3	99.2	153.1	95.1	224.3
MSMEG	MSMEG	K.D									
_4571	4568	K.SALALALNKL	2	138.4	131.5	43.9	45.1	279.5	262.8	97.2	96.9
MSMEG	MSMEG	K.VGPYALQDFSLFQVLR.F	2	103.5	136.7	146.4	148.3	91.7	111.1	146.6	157.4
_4617	4609	K.VYDVTENVQAGLR.T	2	200.4	160.9	113.9	121.1	239.4	120.4	143.3	130.7
		R.FPFVPSNYER.L	2	56.6	50.2	59.2	57.6	55.0	44.6	77.2	50.4
		R.IEFQLDPPTGDIGLLR.E	2	60.1	56.2	1508.5	1547.3	46.6	36.2	1044.4	1311.4
MSMEG	MSMEG	K.TVNIVPVARPEA	2	131.6	100.3	48.8	39.1	138.3	171.6	49.3	65.8
_4624	4616	R.GGDDTLFALAPGAVEFGA									
		K.R	2	750.5	802.9	331.1	345.9	669.3	718.3	337.2	323.2
		R.GGDDTLFALAPGAVEFGA									
		K.R	3	49.3	38.7	11.6	6.4	46.9	52.7	11.4	16.8
		R.GTHFHPGVNVGR.G	3	1.0	0.5	0.1	0.1	1.1	0.8	0.2	0.1
MSMEG	MSMEG	K.LDSEPGASVSLPVALVVD									
_4625	4617	GANVTSK.A	2	331.9	394.8	243.4	273.9	426.2	413.5	225.0	224.0
		K.LDSEPGASVSLPVALVVD									
		GANVTSK.A	3	537.5	399.8	424.4	324.5	624.8	779.6	374.0	466.3
		K.VAVTAEVLEHTK.G	2	61.9	58.2	45.9	44.2	80.9	67.2	46.8	41.3
		K.VAVTAEVLEHTK.G	3	163.0	147.6	93.4	82.2	221.4	193.3	97.0	78.6
MSMEG	MSMEG	K.AGAAVALYEEPDLVK.V	2	77.9	76.8	72.2	66.4	57.8	50.9	70.4	73.8
_4626	4618	K.VWLPSGGTLVIDR.T	2	28.2	26.7	15.0	13.4	22.3	22.7	19.3	19.4
		K.YEPAGPDAPDVFAVHR.I	2	4.9	6.4	35.7	35.7	7.7	6.3	34.6	36.3
		R.EVVPSDAGVIIR.T	2	63.3	61.7	19.1	21.8	51.5	49.0	21.1	19.4

		R.KIEQALKPGDYVVVQVSK.									
		D	3	18.1	25.2	21.1	23.4	17.6	21.6	14.2	15.7
		R.LGTGLVEAFSTAC#THC#									
		GGR.G	3	25.8	27.8	15.6	18.8	32.9	27.2	19.0	16.3
		R.RRPPILSEAEFLAR.R	3	34.0	31.6	6.5	9.4	33.2	34.9	3.6	9.1
		R.VLDALAEFDGR.Q	2	16.6	17.7	6.9	14.4	12.1	13.0	3.1	6.6
		R.YLVYVPGASSTGISR.K	2	77.9	76.3	69.7	74.7	57.7	55.0	86.9	82.9
MSMEG	MSMEG										
_4627	4619	K.GLTLAALELK.N	2	174.6	169.5	92.8	87.9	164.0	157.8	112.1	102.9
		R.GDFALITQDNLVHGSDSP									
		ESAAR.E	3	918.3	931.0	526.7	523.3	769.6	812.4	620.2	568.4
		R.KGLTLAALELK.N	2	25.1	39.7	9.6	15.5	21.2	22.9	13.6	12.6
MSMEG	MSMEG										
_4630	4622	K.LLHPVMPFVTETLWK.T	3	13.9	19.5	7.7	12.9	11.3	13.4	6.7	10.0
		K.VTPAHDPNDFEIGMR.H	3	62.7	38.7	28.3	14.5	46.4	19.7	28.6	6.8
		K.YEDVEGELVSFR.Y	2	166.6	161.7	144.1	166.8	156.4	132.9	170.0	165.7
		R.AEVDSAFCNYEFNR.A	2	724.9	711.6	127.2	145.8	676.7	663.1	138.2	173.6
		R.LFDAGLIYQAER.L	2	239.2	226.8	277.1	248.2	218.1	189.1	340.0	273.0
		R.LSLQWWVK.V	2	30.6	28.8	16.4	15.4	37.5	28.4	27.9	22.3
		R.LVNWSPVLETAISDLEV.K.									
		Y	2	207.2	241.0	266.1	301.7	165.9	207.0	283.4	366.5
		R.LVNWSPVLETAISDLEV.K.									
		Y	3	99.6	119.8	90.1	106.0	81.7	87.2	103.1	114.3
		R.TTAVLAVALDTLLK.L	2	102.4	102.4	89.9	90.9	119.6	85.0	152.7	102.5
		R.TTAVLAVALDTLLK.L	3	6.9	6.4	3.1	2.0	6.7	6.5	3.6	3.5
		R.YGSMNDDEPHIVVATTR.									
		V	2	36.2	34.5	24.6	29.1	16.8	37.4	10.3	47.3
		R.YGSMNDDEPHIVVATTR.									
		V	3	155.2	159.1	72.3	79.1	66.5	78.6	63.1	67.3
MSMEG	MSMEG	K.AIIEHKPVEPGPAAEGEPT									
_4636	4627	PY	3	0.3	0.0	309.1	0.0	0.0	0.1	297.9	321.0
MSMEG	MSMEG	K.TAEVSADDIVVHDAQIDDP									
_4645	4636	AYAFALSR.L	3	251.3	252.4	90.3	93.7	357.4	342.4	65.8	78.1
		R.APTIATGLALAR.P	2	9.7	8.2	60.6	53.4	12.7	13.7	63.4	65.4
		R.LINLTHGEPIFGADGEYA									
		VVK.S	3	395.3	373.6	188.9	171.6	518.0	496.4	156.9	150.2

		R.WC#PGC#GDYVILNTIR.N	2	81.4	84.8	16.3	15.2	99.5	103.6	15.5	11.4
MSMEG	MSMEG	K.TEQADLLQALFGR.N	2	174.9	160.7	78.2	68.3	367.4	271.0	117.5	81.6
_4646	4637	K.TEQADLLQALFGR.N	3	1.6	3.8	0.0	0.0	14.9	9.0	0.1	0.5
		K.VVVPEMNLGQLALLR.G	2	242.4	268.3	119.8	124.0	520.5	531.9	165.3	170.3
		K.VVVPEMNLGQLALLR.G	3	23.0	27.4	5.8	6.6	47.6	51.5	8.9	10.3
		R.ELEASEAFIRE	2	25.4	20.9	8.7	6.1	19.5	33.7	1.3	15.9
		R.FLVDVQSVTK.V	2	187.2	172.7	85.5	83.6	340.2	253.4	103.3	76.0
		R.FTSEAALFGNDLATQPNY									
		PAEIR.A	3	133.6	175.6	57.5	80.9	220.1	231.0	47.6	65.0
		R.GGLIANSDEFTK.R	2	173.8	185.5	167.5	175.2	185.3	201.7	113.9	143.6
		R.HLNPFPPANLGEVLAR.Y	2	136.3	149.0	68.2	93.9	201.1	229.7	72.2	74.5
		R.HLNPFPPANLGEVLAR.Y	3	101.9	91.2	21.7	19.5	183.4	169.1	28.1	20.6
		R.IGGLESANGSGNISYEPK.									
		N	2	239.1	240.4	111.5	107.4	296.5	353.3	91.5	109.6
		R.KPEIAEANVLALK.A	2	180.6	154.0	129.1	110.3	311.8	239.8	134.9	115.3
		R.KPEIAEANVLALK.A	3	126.3	102.7	46.0	28.1	222.6	151.6	47.4	32.9
		R.LAAATVEGEANEESAVGA									
		NA	2	40.9	43.7	5.2	8.8	47.5	67.6	12.4	9.8
		R.SPSDC*FDIAVEAAR.I	2	155.8	155.2	29.6	29.6	240.2	197.4	34.3	26.4
MSMEG	MSMEG	R.TDFPAETLAALVER.G	2	18.5	17.2	13.1	15.6	22.2	17.2	24.5	13.9
_4647	4638										
MSMEG	MSMEG	R.LPVLLPADTFATR.V	2	13.2	10.9	61.0	67.5	27.0	18.9	90.5	51.4
_4664	4654	K.APDAFLDALDAHFGITSPR									
MSMEG	MSMEG	.K	3	8.0	18.8	0.8	1.6	15.4	19.9	0.9	0.8
_4668	4658										
MSMEG	MSMEG	K.EYGIIDTVLQYR.K	2	796.1	793.6	691.0	640.6	707.9	688.9	671.7	602.3
_4672	4662	R.ADIQTVC#LGQAASAAAV									
		LLAAGTPGK.R	3	179.9	163.0	94.4	86.8	94.8	113.4	54.7	61.5
		R.ADIQTVC#LGQAASAAAV									
		LLAAGTPGKR.L	3	79.0	83.2	41.0	46.4	98.5	91.3	52.9	50.1
		R.ADIQTVC*LGQAASAAAVL									
		LAAGTPGK.R	3	179.9	163.0	94.4	86.8	93.0	113.1	54.4	61.5

		R.VLIHQPALSGVIQQQFSDL									
		EIQAAEIER.M	3	760.7	799.6	368.6	378.6	512.1	617.2	296.8	316.7
		R.YILPSFIEHSSFGVK.E	2	281.0	257.9	313.0	301.1	308.5	292.3	345.9	326.0
MSMEG	MSMEG	R.GTGQGLNLVDSVYER.L	2	1947.6	2143.2	1891.5	1992.4	1846.0	1819.3	1966.4	1892.7
_4673	4663	R.IIFLGSQVDDDIANR.L	2	1690.9	1762.6	1701.7	1680.5	1467.7	1446.0	1725.0	1695.8
		R.IIFLGSQVDDDIANR.L	3	160.2	130.7	130.6	98.0	147.3	133.5	101.6	97.3
		R.ILM*HQPLGGVTGSAADIA									
		IQAEQFAVIK.K	3	496.1	474.5	684.9	645.4	389.7	374.0	669.6	635.6
		R.ILM*HQPLGGVTGSAADIA									
		IQAEQFAVIK.K	4	18.8	14.0	10.4	7.4	10.4	10.5	3.7	4.7
		R.ILMHQPLGGVTGSAADIAI									
		QAEQFAVIK.K	3	706.5	687.5	825.9	784.5	507.2	492.6	750.7	721.1
		R.LC#AQILLSAEDPTK.D	2	212.8	207.3	204.2	208.6	113.9	110.0	106.0	106.8
		R.LC*AQILLSAEDPTK.D	2	208.3	206.7	204.2	208.6	112.3	106.6	106.0	106.8
		R.LNAEFTGQPIER.I	2	164.6	146.2	127.0	115.2	149.5	169.6	122.5	134.1
MSMEG	MSMEG	K.AIEALLEQTEVPLPEK.I	2	604.4	575.3	543.2	546.3	585.2	468.6	549.2	502.5
_4674	4664	K.FAEQLAEQGSSR.E	2	7.3	4.7	8.8	4.0	1.6	2.3	1.3	4.5
		K.ITVDPIEVTDDEEVDAELQS									
		LR.A	2	247.1	232.4	214.8	210.3	128.9	144.9	182.5	203.0
		K.ITVDPIEVTDDEEVDAELQS									
		LR.A	3	196.0	255.0	181.3	242.6	103.0	116.5	147.7	172.0
		K.IVQAQIDEVVHNIAHGLDH									
		DEEK.F	4	154.0	150.2	99.4	105.9	42.2	45.7	48.8	46.9
		K.LEIQVSQNDLTER.L	2	85.2	84.1	196.3	185.1	34.3	32.4	120.0	120.3
		K.TQLLMDAVADKLEIQVSQ									
		NDLTER.L	3	236.7	238.6	214.7	198.8	157.2	133.5	177.1	165.3
		R.ELPEPDDEFAQLASFYDTI									
		EELR.N	3	95.6	157.3	89.0	137.6	23.3	57.0	29.9	75.5
		R.INVEVPFTELEPDFDR.A	2	849.1	851.5	703.7	682.4	809.8	761.0	709.5	653.8
		R.YSEAVSTSDLKPLGQPEIE									
		ITK.L	3	1629.6	1791.6	899.5	918.6	1028.6	1139.1	635.8	616.3
MSMEG	MSMEG	K.DVDLPWTQDITFSGK.V	2	4.1	6.4	2.4	5.5	7.9	10.6	5.6	2.5
_4679	4669	K.GLSEGGIPIGAALFSADGE									
MSMEG	MSMEG	LLGSGHNR.R	3	66.5	70.7	107.7	114.0	53.9	60.6	74.7	72.8

		R.RVQDGDPsiHAETDAFR.								
		A 3	4.2	3.3	3.7	1.2	6.4	5.2	5.4	5.6
		R.TFSGGHEWLADNGVSVT								
		LLDDER.C 3	79.0	81.7	189.1	188.0	91.2	95.9	184.5	175.4
		R.VQDGDPsiHAETDAFR.A 3	12.8	0.0	24.6	0.0	13.7	16.5	18.2	24.0
MSMEG _4688	MSMEG 4677	R.DLPEEYQEMMK.K 2	59.5	69.9	29.4	44.3	48.3	37.2	40.2	33.5
MSMEG _4690	MSMEG 4679	R.AAEAGSDHQLAYVNALT								
		SVLSAR.H 3	590.2	577.2	403.4	377.8	591.2	523.1	545.6	455.3
		R.ADFDVDSSGAFTR.F 2	303.3	249.9	198.6	158.4	279.3	225.3	259.0	196.9
		R.DHAFANATFGDLLGALEK.								
		A 2	164.7	177.8	126.2	134.4	172.1	177.5	163.7	155.7
		R.DHAFANATFGDLLGALEK.								
		A 3	146.2	162.1	97.8	110.8	170.5	125.1	147.9	103.5
		R.DLSGWGQQWLK.T 2	118.4	120.3	61.4	68.6	124.0	103.5	84.4	90.1
		R.FVDPVDDEVLYLSQFETA								
		DAK.R 3	210.9	233.7	146.4	167.3	180.5	190.4	166.1	189.8
		R.GQLILVNDDDLTYC*SLR.L 2	183.4	156.4	95.0	103.0	187.4	166.9	108.2	90.9
		R.HTTLLADLLDKDPGSLGL								
		EGLVVDTDLR.W 3	31.9	39.8	26.8	41.6	31.8	41.9	30.5	49.3
		R.HTTLLADLLDKDPGSLGL								
		EGLVVDTDLR.W 4	89.4	106.6	59.3	66.7	78.6	102.8	64.0	93.4
		R.IADIADPLPR.T 2	67.2	47.8	98.5	79.5	85.0	30.0	138.9	136.8
		R.LAVGIYDDVDGK.L 2	173.5	127.1	89.8	73.2	163.2	112.2	108.9	77.7
		R.LDPDSLSTVVTR.I 2	515.4	481.9	566.0	548.4	471.0	429.6	551.1	540.1
		R.MFAC#FDQPDLK.A 2	48.9	48.7	17.9	26.2	56.7	55.8	51.6	52.5
		R.SGEIDADGPETPFIDAEAQ								
		R.D 2	282.4	271.1	142.2	146.0	204.6	245.3	147.4	174.8
		R.SGEIDADGPETPFIDAEAQ								
		R.D 3	61.5	72.5	26.7	30.7	49.3	51.9	20.3	32.1
MSMEG _4692	MSMEG 4681	R.TLAWSAAWEMTR.D 2	116.8	113.1	58.2	63.9	99.6	82.8	86.5	61.5
		K.EGNLIDGLISAVR.V 2	71.7	71.3	27.2	29.5	70.3	67.5	26.4	24.6
		R.FAVYIGPLGADTAATAR.E 2	275.0	275.2	102.3	102.9	312.0	314.6	106.2	100.2

R.GIESAAPLGVSAASFK.											
		E	2	273.9	282.6	207.2	212.5	275.1	286.3	182.7	181.0
		R.ISAVTEPGELSVHYPFPTM									
		DLVVLDDALK.Y	3	41.6	52.2	21.2	26.7	31.1	44.8	15.3	23.2
MSMEG	MSMEG	K.MSDPWTHAPIWAAEEP									
_4693	4682	R.E	3	35.0	35.6	6.3	7.5	30.5	33.6	7.1	5.7
MSMEG	MSMEG	R.SVNAAPDSKPSVIGETQL									
_4698	4687	AAVHIEQQR.L	4	169.2	162.7	191.6	250.6	138.0	140.2	158.1	175.7
MSMEG	MSMEG	K.APVDLLNGGIGTYIK.A	2	10.7	12.1	16.3	14.9	14.3	15.4	21.4	23.6
_4699	4688	K.ATGAVVTTPPEVVR.R	2	0.4	0.7	18.0	12.8	0.3	0.5	15.7	11.0
		K.GTATFSIDIANEVAK.S	2	52.0	49.2	41.6	40.0	53.3	44.9	51.8	45.7
		K.ISPHPSIPHAPDAEAQR.D	3	8.1	5.5	5.0	3.5	5.1	5.8	4.6	5.8
		K.ISPHPSIPHAPDAEAQR.D	4	13.3	9.7	9.9	7.7	6.5	9.5	7.1	9.9
		K.LALKDDVLASDLPDQEVF									
		ASR.L	3	60.4	58.8	69.8	64.0	56.4	66.7	102.5	85.8
		K.VIGEGGNLGVVTALGR.I	2	68.2	72.8	125.8	152.4	70.7	75.2	124.5	140.5
		R.AFANLIEATLR.T	2	22.2	19.4	17.4	15.9	26.8	22.8	31.9	26.0
		R.FADAVTAIWHGR.V	3	10.1	9.7	5.1	3.9	7.9	9.1	5.2	7.2
		R.GPQADAPGVVTSTGPLAVA									
		AHDDLVSDDLVAAHYR.L	4	55.3	53.1	88.7	85.3	67.7	68.4	118.5	130.4
		R.INTDALDNSAGVDC#SDH									
		EVNIK.I	3	17.2	19.9	17.4	20.6	19.3	20.6	31.4	33.7
		R.ITEDVGVPDAVR.S	2	40.8	40.7	46.4	49.1	51.7	44.5	71.7	61.2
		R.LEMQDILVR.E	2	15.4	15.0	7.6	6.9	13.9	13.4	12.2	10.3
		R.LFISGLLDVTDNVDK.A	2	14.0	11.6	23.5	25.2	18.5	18.3	36.3	49.5
		R.LPEGTAADSVDTSENES									
		R.I	2	29.6	32.3	20.1	24.6	33.3	30.2	37.5	32.9
		R.LPEGTAADSVDTSENES									
		R.I	3	9.8	14.6	9.3	14.1	7.7	12.0	11.0	16.6
		R.LPYYFPTR.L	2	11.3	11.0	9.4	12.7	11.7	12.7	13.2	19.6
		R.LVPGILAEAR.Q	2	18.4	16.6	8.3	6.8	20.0	20.3	13.8	14.9
		R.TALGLDADVEELTPPALIK.									
		A	2	20.3	19.1	21.5	24.3	26.6	23.5	44.1	37.3

MSMEG	MSMEG	R.YGAYPYIVVVR.E	2	16.5	18.0	8.1	8.8	20.0	24.5	23.8	22.1
_4700	4689	K.DLSFTLPR.N	2	102.5	76.1	106.9	65.9	72.9	51.1	124.5	90.0
		K.TVWQVVSDGLDYIEVGQ									
		NEIPSR.A	3	76.1	105.9	72.7	101.8	19.5	39.6	36.2	70.0
		K.VILDDVTLNFLPGAK.I	2	316.5	300.6	458.5	447.5	248.3	157.1	567.6	380.2
		R.AYPYEGNYSTYLEK.K	2	289.7	293.3	384.4	368.9	164.1	185.2	335.0	349.7
		R.KLDFEEIQIPTPPR.L	2	78.4	95.7	245.6	341.4	41.2	49.4	255.6	301.7
		R.KLDFEEIQIPTPPR.L	3	152.6	133.7	228.2	190.3	100.2	82.0	239.8	200.4
		R.LDRYEEMVAEAEK.T	2	55.2	44.8	49.0	49.3	23.8	29.0	41.8	49.9
		R.LDRYEEMVAEAEK.T	3	38.7	30.8	40.7	40.4	13.4	17.2	36.5	37.9
		R.LGSVVVEVEHLDK.G	3	159.9	141.6	183.7	153.8	108.6	93.9	205.3	161.2
		R.LNLALTLK.E	2	51.4	37.2	39.0	22.4	42.3	20.9	59.6	30.3
		R.NGIVGVIGPNGVGK.T	2	12.1	12.9	79.2	85.3	7.5	5.8	91.4	56.5
MSMEG	MSMEG	K.LGIHPGGATWMLQR.A	3	18.0	24.1	26.8	24.3	12.5	17.1	43.1	33.6
_4709	4698	R.HGLALTVAADDPLAAAR.E	2	55.1	61.1	149.0	134.3	44.8	74.2	185.1	232.8
		R.HGLALTVAADDPLAAAR.E	3	20.2	17.2	24.2	24.3	13.7	12.4	27.1	23.7
		R.SAVEAAEADPDVHAVVVT									
		GAG.K.A	2	12.7	12.7	19.3	25.1	5.9	4.3	11.4	23.1
		R.SAVEAAEADPDVHAVVVT									
		GAG.K.A	3	183.6	181.6	244.2	254.5	136.9	140.6	253.8	239.2
MSMEG	MSMEG	K.SRPGEGLTFAHTGR.N	3	15.8	17.2	22.2	20.1	14.1	19.4	7.1	16.2
MSMEG	MSMEG	R.LQVEHPVTELVTGIDLVEQ									
_4716	4706	QIR.I	3	11.0	14.7	26.7	35.6	17.7	22.5	31.0	35.6
MSMEG	MSMEG	K.AFANTFSESLR.G	2	45.9	27.4	36.3	22.4	34.3	35.6	45.5	48.5
_4722	4713	R.AVVTGASQNIGEALATEL									
		AAR.G	2	62.4	72.2	71.5	72.4	48.8	52.5	67.3	76.8
		R.AVVTGASQNIGEALATEL									
		AAR.G	3	124.1	132.1	127.0	143.3	109.0	106.1	150.6	126.7
		R.LIPDFLWIDTEYTA.K.L	2	84.2	96.3	131.0	148.1	57.8	68.0	114.5	136.6
		R.TELPDSEQSLVER.L	2	226.4	235.8	268.7	279.2	205.6	208.4	302.3	322.1
		R.YGVTVEVR.A	2	49.9	26.1	11.4	8.5	99.5	79.9	13.3	9.8

MSMEG	MSMEG										
_4724	4715	R.STVDLATAEEMVLDYIR.G	2	24.1	27.8	33.3	33.4	18.6	20.0	28.7	31.7
MSMEG	MSMEG										
_4727	4717	R.GPAIDLGLAYTLAR.R	2	4.5	4.2	122.7	114.0	7.4	6.1	154.9	164.3
		R.LIAEQVGLLL.R.R	2	0.7	1.0	0.0	0.0	3.0	2.8	0.1	0.1
MSMEG	MSMEG										
_4742	4734	K.AALDEILHSWR.S	2	21.7	23.7	22.0	29.7	38.2	31.7	21.5	26.4
		K.LWVEQGALPAR.M	2	95.6	78.8	194.1	145.1	127.4	134.2	146.0	154.6
		K.TLADSIGGHAFELDVEDP									
		AAITR.V	3	155.2	159.5	262.1	264.6	212.9	190.7	281.5	263.8
		R.LADNGVVLIASSHDVGRP									
		R.A	4	72.0	70.3	98.0	99.9	111.8	107.5	111.6	101.1
		R.LLVVGASSGIGHAVAESA									
		AK.R	2	60.7	57.1	187.8	183.7	78.2	78.7	154.4	146.5
		R.LLVVGASSGIGHAVAESA									
		AK.R	3	225.2	213.5	373.3	332.0	254.7	260.0	378.9	384.3
		R.VGVGPTEDEILR.G	2	113.8	85.9	205.2	166.4	95.0	121.4	133.3	172.1
MSMEG	MSMEG										
_4752	4742	R.LALTVDLSAER.A	2	220.0	228.2	229.0	249.5	209.0	205.9	229.1	217.2
MSMEG	MSMEG										
_4753	4743	K.EGLTFPLLSDPDR.S	2	137.9	126.9	173.9	173.3	106.1	106.4	178.2	169.9
		K.IAVAQYNVR.A	2	3.5	0.0	2.8	0.0	2.0	2.5	2.8	3.3
		K.VIVYFYPAASTPGC#TK.Q	2	380.9	440.4	573.1	641.2	239.7	247.6	492.7	461.8
		K.VIVYFYPAASTPGC*TK.Q	2	379.9	437.9	561.1	636.8	239.3	246.5	476.5	454.7
		R.DKEGLTFPLLSDPDR.S	2	107.6	106.4	132.3	129.2	82.4	69.9	134.5	107.5
		R.DKEGLTFPLLSDPDR.S	3	147.9	128.7	148.1	131.6	102.2	105.4	136.5	143.0
		R.DNLAELNDAGLDVVGISP									
		DKPEK.L	2	64.6	61.6	71.7	67.7	26.2	33.9	70.2	54.0
		R.DNLAELNDAGLDVVGISP									
		DKPEK.L	3	1193.7	1281.6	1195.4	1323.8	895.6	989.8	1197.6	1185.1
		R.KVIVYFYPAASTPGC#TK.Q	2	35.7	37.2	49.5	58.7	32.5	29.4	58.0	49.6
		R.KVIVYFYPAASTPGC*TK.Q	2	35.7	37.2	49.5	58.7	32.5	29.4	58.0	49.6

K.IVAAAANAGHWAELAGGG										
QVTEQIFNDR.I	3	287.9	271.0	294.9	281.7	364.6	416.6	340.2	343.4	
K.IVAAAANAGHWAELAGGG										
QVTEQIFNDR.I	4	59.1	55.3	60.5	63.5	81.8	86.2	58.9	67.9	
K.LPEYSHSTVEVLNSER.D	2	65.6	51.3	58.3	46.3	116.8	78.2	94.1	53.5	
K.LPEYSHSTVEVLNSER.D	3	298.7	312.5	299.3	312.7	338.6	368.3	282.6	292.4	
K.LVEWVGTEQTESLGPQSI										
HLK.D	3	473.0	495.2	609.0	601.7	403.1	448.7	450.3	479.1	
K.LWLAEEGDIDAQWEQLS										
QR.F	3	10.5	9.9	3.6	3.4	20.0	26.3	7.7	12.3	
K.M*GLPVLAvgYaqsfad										
GVHTSIPAPGLGALGAAR.G	4	25.3	33.5	20.1	27.2	7.2	19.2	7.9	15.0	
K.PVNFPVPVIDKDVR.R	3	12.9	10.3	6.9	6.3	7.3	9.8	7.2	8.4	
K.PYFGDVAEM*TYLQWLR.										
R	2	7.5	7.6	4.1	3.4	13.5	11.9	4.2	4.1	
K.PYFGDVAEMTYLQWLR.R	2	28.8	39.1	4.1	3.9	35.3	38.6	12.9	9.5	
K.QLTSAAVSVPGVLLTQIAA										
VR.A	2	6.8	5.4	3.6	2.9	20.3	14.6	12.1	7.1	
K.QLTSAAVSVPGVLLTQIAA										
VR.A	3	23.8	25.6	14.9	13.9	46.9	42.3	30.7	23.3	
K.RPDSPWLDITWR.D	2	33.6	30.2	21.4	18.3	54.8	52.2	32.5	27.1	
K.RPDSPWLDITWR.D	3	40.2	36.0	23.3	19.9	49.4	57.0	23.2	25.9	
K.SAPTVAGLATNTLK.L	2	431.8	412.4	670.7	656.7	459.0	461.3	639.9	587.7	
K.TLGKPVNFVPVIDK.D	2	22.4	20.3	16.0	16.2	26.6	19.2	16.3	9.0	
K.TLGKPVNFVPVIDKDVR.R	3	88.5	78.7	57.6	50.6	166.7	138.9	99.5	80.3	
K.TVYAFPGQGIQHK.G	2	24.7	8.4	4.6	4.5	16.9	10.4	5.5	5.0	
K.TWELGPGWAK.H	2	117.0	110.4	93.2	91.5	127.1	142.2	84.3	95.0	
K.VDLTGGGLGDIK.I	2	197.8	186.4	181.2	168.1	227.9	221.3	180.4	166.3	
K.VIDGAVAAVAAR.R	2	5.6	4.9	3.5	3.9	4.1	3.4	2.5	4.4	
K.VLLWAVQR.L	2	182.4	162.0	148.7	128.8	218.1	224.6	160.3	153.5	
K.VTGPDGVLASAAR.L	2	9.2	10.3	7.6	8.6	13.2	13.2	10.7	11.3	

K.VVDNTATVTDWDPER.V	2	130.6	122.2	105.2	109.4	173.6	180.9	125.3	131.2
R.AAALLAGLEGPIVHGMWL									
SAAAQHVVTATDGKPVPPA									
K.L	4	56.6	64.2	44.6	42.5	77.2	74.0	52.5	48.5
R.AAALLAGLEGPIVHGMWL									
SAAAQHVVTATDGKPVPPA									
K.L	5	58.4	58.6	46.0	47.7	73.5	77.7	46.7	48.5
R.AFVQFDPEHTVAR.P	2	63.1	46.6	43.5	34.6	73.7	42.3	37.2	22.4
R.AFVQFDPEHTVAR.P	3	108.7	97.7	69.3	70.1	79.1	84.0	39.5	41.9
R.AFVQFDPEHTVARPLPDS									
SDWEVTR.K	3	52.4	43.3	38.7	33.5	135.3	97.8	93.5	58.5
R.AFVQFDPEHTVARPLPDS									
SDWEVTR.K	4	139.6	153.8	453.3	457.4	225.6	283.6	354.9	392.9
R.AGGHHSWEDLDDLLLAT									
YSELRS.S	4	4.7	4.9	1.9	1.8	7.7	8.9	2.7	3.7
R.AIQLNTLFLDPYLWK.L	2	55.5	66.4	59.1	61.6	83.4	109.4	62.1	80.4
R.APGNPLFIVSQK.T	2	231.1	212.3	228.2	200.3	296.3	271.2	241.8	208.8
R.AVLAIAAGVEGPENLPK.V	2	309.9	298.4	293.1	285.5	409.9	387.4	330.3	297.6
R.AVLAIAAGVEGPENLPK.V	3	58.7	55.3	61.2	58.6	67.3	73.4	54.5	60.3
R.DASGPLAVVLDAPDVLWA									
GR.M	2	87.6	64.4	82.9	62.2	95.3	76.9	69.2	58.6
R.DASGPLAVVLDAPDVLWA									
GR.M	3	20.8	22.7	11.0	14.0	17.7	26.8	7.4	15.2
R.DEIIAAMAQTAK.P	2	58.1	52.9	43.4	37.1	62.0	55.8	38.5	35.3
R.DLVPAEPLDEVLADYDTW									
R.N	2	102.5	112.3	97.1	105.0	82.5	129.1	59.2	98.0
R.DLVPAEPLDEVLADYDTW									
R.N	3	27.6	36.8	23.1	34.8	18.4	43.0	8.9	30.4
R.DVTVGAPVDMRPFAVVS									
GDHNPIHTDR.A	3	24.7	25.3	2.0	1.0	45.7	34.6	12.9	6.4
R.EEMSGAADESDEAPAG									
TIR.A	2	4.5	2.6	2.7	1.3	1.1	1.8	0.3	0.4
R.EFVDDGAIDPDHASPLLV									
SVFLDK.D	3	53.1	53.7	43.4	45.1	35.6	41.1	30.2	30.2

R.ETLGFSVLHVVR.D	2	48.8	38.9	122.6	104.0	130.2	96.4	152.8	102.2
R.FEGTGHVVATQANWWQ									
GK.A	2	22.9	19.7	13.0	11.3	42.3	38.9	23.2	19.9
R.FEGTGHVVATQANWWQ									
GK.A	3	208.6	204.2	219.9	202.6	190.2	258.0	180.8	193.4
R.FELYC#TQIAEK.E	2	53.4	49.0	48.7	44.4	43.2	39.3	32.1	31.5
R.FELYC#TQIAEKEEAER.K	3	69.5	67.2	79.3	65.6	75.3	86.4	72.4	70.5
R.FELYC#TQIAEKEEAER.K									
N	4	12.5	13.4	5.6	11.8	35.2	40.5	22.0	25.7
R.FEQAAVDEVLGAGAEPVE									
VLSR.R	2	55.1	51.4	48.3	48.7	48.0	51.3	33.0	32.4
R.FEQAAVDEVLGAGAEPVE									
VLSR.R	3	150.3	166.7	131.0	136.7	112.0	145.7	75.4	99.7
R.FLGM*VKPGDQVDFR.V	2	9.9	9.2	23.9	24.4	26.3	13.4	32.6	27.3
R.FLGMVKPGDQVDFR.V	2	67.5	60.8	56.8	33.9	95.1	71.8	71.4	45.5
R.FTLTDVVR.S	2	5.1	6.4	2.4	1.9	6.8	9.3	0.3	0.9
R.GGAVFAPVFDPVQVEVG									
FHTPR.L	3	225.3	200.5	215.5	173.0	284.7	256.6	225.7	184.7
R.GGDLGGLHAGALASAAD									
VDK.V	2	78.7	76.3	24.0	22.5	83.0	66.7	32.1	20.2
R.GGDLGGLHAGALASAAD									
VDK.V	3	129.2	126.7	111.8	112.3	101.8	107.9	83.3	77.1
R.GGDLGGLHAGALASAAD									
VDKVIDGAVAAVAAR.R	3	30.8	31.8	30.5	38.7	58.2	58.7	36.3	39.4
R.GGDLGGLHAGALASAAD									
VDKVIDGAVAAVAAR.R	4	72.9	73.4	71.7	69.7	147.6	160.3	118.7	121.3
R.GGDLGGLHAGALASAAD									
VDKVIDGAVAAVAAR.R	5	15.9	10.5	1.1	0.7	7.2	16.1	2.0	2.9
R.GISVSLPSAGGASGGVVD									
SAALGEFAEK.V	3	130.1	144.5	109.1	126.5	107.3	158.7	70.3	109.5
R.GITVLGDRPPM#VSVTNA									
DPER.I	3	99.4	102.0	80.0	77.6	105.2	109.7	69.0	70.1
R.GITVLGDRPPM*VSVTNA									
DPER.I	3	99.0	101.1	73.6	74.6	104.8	106.2	68.2	69.3
R.GITVLGDRPPMVSVTNAD									
PER.I	3	243.4	232.7	197.9	197.2	260.5	257.7	180.4	180.5

R.GLGIGIVPAATR.G	2	217.3	242.8	216.7	230.3	377.3	331.7	336.8	262.9
R.GSQYAIAGTVAGLEALEE									
EIER.R	2	67.5	61.7	62.2	56.0	74.4	81.5	55.2	62.1
R.GSQYAIAGTVAGLEALEE									
EIER.R	3	76.9	95.8	59.1	69.5	78.0	122.1	52.9	80.4
R.IAAEVPTKPVIVHIEGGR.A	2	13.4	12.0	3.1	3.3	51.5	23.6	21.6	8.3
R.IAAEVPTKPVIVHIEGGR.A	3	189.9	174.4	112.9	113.4	314.9	257.7	182.0	141.0
R.IAAEVPTKPVIVHIEGGR.A	4	262.8	252.4	259.2	235.6	363.5	369.0	286.3	279.8
R.IAAPTEWQVR.E	2	175.2	161.4	132.1	115.4	182.0	195.3	116.6	121.0
R.IAELETLLEPGR.A	2	287.4	247.3	277.5	235.3	331.1	375.9	291.5	293.1
R.IDQIEALDSIESITDGASSR									
.R	2	45.8	40.7	6.5	5.4	90.7	77.0	3.0	5.6
R.IGSELVM*AATAR.L	2	4.7	5.1	1.0	1.2	4.7	4.2	0.4	1.0
R.IGSELVMAATAR.L	2	102.3	91.7	101.3	94.2	110.3	100.8	102.8	95.8
R.IYELLEEFSSDVR.T	2	192.0	170.5	166.4	151.0	312.2	248.1	251.9	176.8
R.IYELLEEFSSDVR.T	3	13.1	13.2	5.4	6.3	18.2	21.6	3.6	8.2
R.LAAIRPSQIDLDDADVK.D	2	14.2	11.6	6.3	8.4	17.9	12.4	8.3	4.5
R.LAAIRPSQIDLDDADVK.D	3	85.7	91.0	80.1	83.0	62.4	63.9	50.6	53.9
R.LAAIRPSQIDLDDADVKDF									
VAEISER.T	3	28.9	34.0	127.2	118.6	72.3	65.4	97.2	105.9
R.LAAIRPSQIDLDDADVKDF									
VAEISER.T	4	87.0	104.0	82.4	93.1	184.4	157.3	128.3	117.9
R.LEVADDQHVVLSPLSGT									
WIEIR.F	3	7.9	9.9	8.1	8.6	23.6	16.5	11.2	10.1
R.LGFLEAQGGGTILLAR.G	2	125.0	108.3	92.0	74.9	189.1	141.8	118.1	86.0
R.LHPQDFGPIETLFDADAD									
GER.L	3	293.3	270.5	297.1	273.0	348.7	354.5	299.3	296.0
R.LHVVLPGSPNR.G	2	3.4	2.9	4.6	4.8	6.8	5.0	4.7	6.0
R.LLAELPKPAEFTVTAK.A	2	32.9	25.0	27.1	19.3	110.1	75.6	83.2	49.7
R.LLAELPKPAEFTVTAK.A	3	190.1	166.0	177.9	157.1	284.7	332.6	218.3	247.4

R.LLDEVAGDADAVAER.R	2	405.4	412.7	395.7	398.1	547.9	522.9	431.6	394.5
R.LLDEVAGDADAVAER.R	3	54.5	55.2	42.6	41.9	56.8	70.1	37.8	42.3
R.LLEDPEAAITALLQR.Y	2	167.2	173.4	142.9	137.0	268.9	241.3	203.4	165.0
R.LLEDPEAAITALLQR.Y	3	122.9	129.4	91.5	97.9	178.5	173.5	114.8	103.1
R.LSDGIEIVGR.W	2	6.7	6.7	4.2	4.2	12.9	11.8	6.1	4.5
R.NAADGALLATLEER.F	2	273.5	252.9	282.5	259.9	384.8	358.1	330.3	301.7
R.NAADGALLATLEER.F	3	23.8	26.6	15.2	15.5	26.7	37.4	12.0	17.4
R.NLFTVGAVPEVAR.P	2	240.7	241.7	322.2	274.6	341.1	286.9	346.0	263.2
R.NLFTVGAVPEVARPWSSY									
APTVVK.L	3	6.1	6.6	8.0	12.8	31.1	40.6	26.3	36.6
R.PFAVVGDHNPHTDR.A	3	7.7	6.4	8.6	14.6	5.7	5.0	7.7	14.4
R.PFAVVGDHNPHTDR.A	4	20.1	18.5	9.3	8.7	11.5	14.2	3.7	4.8
R.PFTLDRDFIQEIR.D	3	51.7	46.3	34.9	31.8	89.9	92.7	49.6	53.7
R.PIGFEPLQWVR.A	2	16.3	15.7	14.3	17.7	16.9	14.3	9.4	9.2
R.PLPDSSDWEVTR.K	2	167.5	184.1	156.4	174.1	120.5	125.2	90.2	85.8
R.PSQIDLDDADVKFVAEIS									
ERT	3	16.2	22.3	14.2	18.6	18.0	18.6	8.5	11.2
R.PWSSYAPTVVK.L	2	172.3	167.2	179.2	166.3	160.4	168.2	137.3	139.1
R.QVDWVDEITELHEAGAR.									
W	2	21.7	16.5	19.7	18.5	28.9	22.8	16.2	13.8
R.QVDWVDEITELHEAGAR.									
W	3	21.7	16.7	16.0	11.3	44.1	41.0	28.4	25.3
R.RDASGPLAVVLADAPDVW									
AGR.M	3	34.8	33.2	38.4	33.7	56.9	47.5	46.4	37.6
R.RDEIIAAMAQTAK.P	2	33.4	25.3	16.2	14.5	52.8	40.0	14.5	13.0
R.RDEIIAAMAQTAK.P	3	34.7	24.8	18.6	9.8	39.6	37.7	10.5	12.1
R.RGISVSLPSAGGASGGVV									
DSAALGEFAEK.V	3	139.1	130.9	114.9	104.6	233.9	218.4	159.9	151.8
R.RYVELAIGDGNSTADTK.R	2	4.3	4.1	4.6	3.7	9.1	6.7	8.1	6.7
R.RYVELAIGDGNSTADTK.R	3	29.5	26.6	21.7	19.4	30.3	39.1	17.1	23.4
R.SFILVPGIDVPFHSSVLR.V	2	28.9	27.7	17.1	16.4	70.4	46.8	39.9	23.3
R.SFILVPGIDVPFHSSVLR.V	3	112.3	129.2	85.9	104.3	165.9	156.1	124.2	101.4

R.SGGAPIVEVDDAATAM#R.									
A	2	46.7	41.1	93.0	81.4	52.6	45.0	54.9	53.8
R.SGGAPIVEVDDAATAM*R.									
A	2	46.7	41.1	80.7	72.8	52.6	45.0	50.8	49.8
R.SGGAPIVEVDDAATAMR.									
A	2	309.5	245.8	246.1	201.3	292.0	259.6	220.0	186.4
R.SGGAPIVEVDDAATAMR.									
A	3	20.4	23.7	5.4	10.0	18.1	27.3	1.9	9.8
R.SLAQLGVGADDIAVISK.H	2	373.0	361.0	487.8	487.9	503.1	444.4	484.5	495.6
R.SLDC#VDDELATSGHFVW									
VR.E	3	42.1	36.1	58.2	54.5	75.7	68.3	57.4	58.0
R.SNITIC#VGGGIGTPER.S	2	39.5	35.6	11.9	14.0	55.2	58.5	21.3	21.8
R.SPILLAGM#TPTTVDAK.I	2	95.3	96.3	94.6	97.8	115.4	102.4	88.7	76.9
R.SPILLAGM*TPTTVDAK.I	2	267.5	274.7	521.4	521.7	299.7	226.3	569.8	466.5
R.SPILLAGMTPTTVDAK.I	2	477.8	484.1	830.4	836.5	546.8	479.9	891.6	779.7
R.SQLGADIHEIDNAASR.C	2	99.2	93.8	63.2	51.2	135.8	115.2	79.5	61.4
R.SQLGADIHEIDNAASR.C	3	176.0	191.5	129.8	136.6	219.5	235.1	140.7	130.8
R.SVVITGTPEQLSR.F	2	174.3	159.7	148.9	139.8	129.0	163.1	96.7	113.2
R.TADGNAADTAHALVDR.L	2	1.4	1.1	1.1	0.7	3.6	2.3	1.4	0.4
R.TADGNAADTAHALVDR.L	3	9.5	9.0	5.0	4.8	10.7	11.5	3.7	4.7
R.TGEFLEIVNFNLR.G	2	37.2	38.7	1163.2	1260.7	99.7	68.3	349.7	274.7
R.TVLPPVLSIR.N	2	226.0	197.7	203.7	176.7	324.6	274.5	247.9	202.9
R.TYKPFGPVLSDAINDQLR.									
T	2	14.3	15.1	28.1	25.1	38.3	28.9	33.7	22.7
R.TYKPFGPVLSDAINDQLR.									
T	3	306.2	281.9	241.6	235.3	363.4	422.2	271.7	274.2
R.VADHTGVTATFGAPLAPT									
LTVVPDALVGR.C	3	444.3	353.5	370.6	286.5	424.7	359.5	324.9	239.4
R.VDEPVGELLD.R.F	2	134.4	124.1	209.4	212.8	105.9	107.8	150.0	128.9
R.VGIDVGAEVLEVSAR.I	2	152.4	161.5	225.2	227.4	220.4	213.3	272.3	255.5
R.VGIDVGAEVLEVSAR.I	3	5.7	8.2	1.2	1.4	6.9	12.9	0.7	2.1
R.VSLAHALIGWT.K.G	2	48.8	39.8	45.3	36.0	89.6	70.5	65.2	46.0
R.VSLAHALIGWT.K.G	3	72.5	63.2	44.2	40.7	106.7	115.0	61.5	64.5
R.WAETVGLDVELAK.E	2	14.7	13.1	27.8	78.9	50.5	44.9	88.5	133.0

		R.WIETQDLLFIEEAAGGLGV										
		ER.F	3	2.2	2.2	1.1	1.3	15.1	15.4	8.2	11.3	
		R.WIDLGPGDILTR.L	2	113.3	119.2	99.4	109.2	268.8	231.7	197.6	178.4	
		R.YEADQVC#VIPGTAAVAGI										
		TR.V	2	73.5	72.1	68.7	61.7	105.5	102.7	92.7	73.2	
		R.YEADQVC#VIPGTAAVAGI										
		TR.V	3	53.9	50.0	63.2	61.0	51.7	71.0	47.9	64.4	
		R.YEADQVC*VIPGTAAVAGI										
		TR.V	2	73.5	72.1	68.7	61.7	105.5	102.7	92.7	73.2	
		R.YPDAETVVLHPADVPFFV										
		ELC#K.T	3	137.7	148.1	109.1	123.3	193.1	209.5	139.0	146.2	
		R.YPDAETVVLHPADVPFFV										
		ELC*K.T	3	137.7	148.1	109.1	123.3	193.1	209.5	139.0	146.2	
		R.YVELAIGDGNSTADTK.R	2	86.9	68.2	81.8	56.5	72.9	78.1	58.7	56.3	
MSMEG _4847	MSMEG 4835	K.HELLALFEDALSR.S	3	11.5	11.3	10.3	8.1	5.6	4.8	4.8	4.6	
		K.RPLFTDFAPR.L	3	10.1	3.3	5.3	0.2	8.5	7.1	4.2	1.7	
		K.VAIQLLFESSRPDPAAK.R	3	37.9	37.7	41.9	36.5	24.1	20.5	17.0	23.8	
		MSMEG MSMEG										
		R.HGIVLSLQFETDDDR.N	3	0.1	0.1	1.7	1.4	1.2	2.0	0.7	1.1	
		MSMEG MSMEG										
		MSMEG MSMEG										
		K.DFTFVC#PTEIAAFGK.L	2	867.3	840.2	54.4	41.2	358.7	367.0	19.9	20.6	
		K.VLGVSVDNEFVFHQWR.A	3	412.2	411.4	3.1	2.2	161.1	172.7	1.1	1.3	
		R.ATFIVDPNNEVQFVSVTA										
		GSVGR.N	2	387.9	369.0	4.1	4.7	266.8	245.4	4.2	2.8	
		R.ATFIVDPNNEVQFVSVTA										
		GSVGR.N	3	763.4	729.1	24.4	24.6	536.2	511.2	28.9	29.0	
		R.ELTAAC#GVLNADGVADR										
		.A	2	1039.7	1268.7	23.4	32.6	617.3	598.1	9.8	21.7	
		R.ELTAAC#GVLNADGVADR										
		.A	3	59.8	64.9	2.5	2.2	18.2	28.0	1.9	3.3	
		R.VLDALQSDELCA#AC#NWK										
		.K	2	1487.5	1614.8	71.2	73.0	847.6	849.0	66.3	78.1	
		R.VLDALQSDELCA#AC#NWK										
		.K	3	28.6	23.6	0.7	0.0	15.2	16.7	0.4	0.5	

MSMEG	MSMEG	K.GSGQGWLTAEYAMLPAA									
_4901	4886	THDR.S R.EALDAPYPGVLPAPK.	3	38.7	50.3	62.5	74.4	28.7	30.9	36.7	40.7
		K	2	134.6	151.1	179.7	214.7	203.2	207.5	204.2	253.0
MSMEG	MSMEG	R.FSVGSFDAVR.R	2	25.8	25.6	6.8	11.1	17.6	23.7	2.5	2.8
		R.IIFSPAEGGSNTAVATAK.E	2	120.6	117.1	68.7	66.9	92.0	102.0	30.3	38.3
MSMEG	MSMEG	K.EVITDLENNYSGISER.I R.FVNIYVNDEDVR.F	2	57.2	70.2	25.7	25.3	55.5	59.0	23.6	29.7
_4906	4891		2	54.0	62.4	31.7	32.3	51.5	59.9	26.6	33.8
MSMEG	MSMEG	R.GFLDADTLDALGYR.F	2	30.3	26.1	61.3	42.3	35.2	35.7	87.0	66.9
MSMEG	MSMEG	R.VTETGEVAVYPVAPQAR.									
_4914	4899	P	2	24.2	26.5	15.0	10.5	26.0	31.2	13.7	14.6
MSMEG	MSMEG	K.RLDELAADHSFLDR.L K.SALNGGLNLSIR.D	3	174.4	153.7	114.0	105.2	119.5	117.1	86.9	112.5
			2	97.4	84.7	205.8	173.6	88.6	75.7	163.0	154.2
		K.SASDLGLPLIAVGLYYR.S R.AFTEIEGLPAPEVFHMNE	2	41.2	42.0	98.2	101.6	76.0	68.1	147.3	145.4
		GHAGFLGAER.I R.DDLEAAALYDLLENNAVAP	4	119.0	130.3	180.0	169.7	129.0	135.1	183.6	200.4
		K.F R.ELIGGELAESALESEVWE	2	152.0	171.3	117.4	124.2	165.6	208.4	128.5	166.6
		R.L R.IKQEILAGIGGVRA	2	78.3	78.6	135.5	136.4	99.0	95.4	173.6	163.3
		R.IKQEILAGIGGVRA	2	38.8	36.2	57.8	47.2	66.2	50.8	122.6	80.6
		R.IKQEILAGIGGVRA	3	53.5	38.2	43.6	33.7	82.9	62.2	89.2	69.7
		R.IPLLLLSDSDIPENEHDLR.G R.LDELAADHSFLDR.L	3	244.1	252.0	364.1	394.0	342.1	268.7	582.9	406.5
		R.LDELAADLDNYLTR.P R.LLLDPDRPVQLIVAGK.S	2	22.0	20.9	87.7	72.8	24.6	22.4	75.3	67.7
		R.LLTAADGDPVLIELALPEG R.D	2	36.3	46.7	57.1	69.5	25.9	28.0	29.6	33.0
		R.LQQVEPGHLWWIR.S R.LQQVEPGHLWWIR.S	2	60.5	51.4	185.0	148.6	103.1	70.6	233.9	147.6
			3	77.0	75.3	98.6	100.3	92.7	93.5	140.6	135.1

		R.NDGDPVALLGSVSPK.R	2	92.8	107.5	209.0	222.7	139.1	141.8	288.5	288.5
		R.PLWYQQQLDTGVAMPK.G	2	44.4	41.5	101.2	106.5	23.0	30.6	43.7	88.6
		R.RDDLEAAALYDLLENAVAPK.F	3	41.0	44.3	79.2	88.5	54.9	56.6	192.8	115.2
		R.SSTVFVTTHTPVPAGIDR.F	3	96.3	101.3	173.0	153.0	72.4	90.3	155.2	152.4
MSMEG	MSMEG	K.FHLDNDALLAYS.K.F	3	25.1	28.1	2.9	3.4	39.3	43.1	4.9	5.0
_4916	4901	K.NEDPDILFLSEAFTR.P	2	17.1	17.9	11.7	9.9	16.7	13.8	8.5	8.4
MSMEG	MSMEG	R.LEIDYPGVGDAVVTHTTADAYR.F	3	164.2	157.3	235.9	246.6	129.2	146.2	234.1	256.8
_4918	4902	R.LLAGEHHDPHSVLGAHEYPGHTVIR.A	4	48.6	52.8	35.5	41.0	32.3	55.2	27.0	52.2
		R.SSNQLTD AHLRPDPSDIH.R.L	4	31.6	21.1	42.9	29.0	19.1	11.5	40.0	25.2
MSMEG	MSMEG	K.LSGSGEEAEQVDPALAQA.R.A	2	29.8	26.1	12.8	12.0	13.5	18.0	4.2	6.6
_4917	4903	K.LSGSGEEAEQVDPALAQA.R.A	3	31.1	20.3	36.6	21.1	23.4	26.7	30.7	34.8
MSMEG	MSMEG	K.DFSGTDLGAI AIR.A	2	702.2	658.4	750.1	700.5	1129.9	1047.3	806.3	751.5
_4920	4905	K.DGVFADEVVPVSIPQR.K	2	1991.6	1942.6	2052.7	1953.9	2667.4	2781.0	2269.7	2299.2
		K.DGVFADEVVPVSIPQR.K	3	45.1	41.1	23.1	28.6	51.9	60.2	18.8	17.2
		K.GDPIEFAEDEGIR.A	2	550.6	525.9	835.5	991.2	832.2	847.9	624.8	654.0
		K.M#C*LSGIDAI ALADQLIR.A	2	174.3	164.2	139.7	148.8	126.0	124.6	83.3	86.0
		K.M*C#LSGIDAI ALADQLIR.A	2	205.7	205.7	171.7	181.4	163.7	173.7	120.5	127.3
		K.MC#LSGIDAI ALADQLIR.A	2	800.4	840.8	473.1	449.3	921.3	983.3	562.3	517.8
		K.MC#LSGIDAI ALADQLIR.A	3	41.5	54.1	34.2	42.4	89.4	82.4	48.4	49.2
		K.MC*LSGIDAI ALADQLIR.A	2	800.4	840.8	470.6	448.2	921.3	983.3	559.4	516.5

		K.MC*LSGIDAIALADQLIR.A	3	41.5	53.9	34.2	42.4	89.4	82.4	48.4	49.2
		K.VNVNGGAIAGHPIGMSG									
		AR.I	2	256.4	301.5	289.9	328.7	243.3	225.8	241.3	291.1
		K.VNVNGGAIAGHPIGMSG									
		AR.I	3	802.9	852.2	872.0	826.9	771.4	589.8	604.3	500.4
		K.YGDATLVDHLAYDGLHDV									
		FTDQPMGALTEQR.N	4	516.4	541.6	514.8	563.3	446.1	408.6	313.7	284.6
		R.AGEFDVIVAGQQESM*SQ									
		APHLLPK.S	3	400.9	418.7	478.4	515.3	528.9	539.9	477.1	435.1
		R.AGEFDVIVAGQQESMSQ									
		APHLLPK.S	3	1817.2	1688.5	1677.6	1620.3	1624.3	1506.8	1096.2	990.9
		R.AGEFDVIVAGQQESMSQ									
		APHLLPK.S	4	67.7	66.6	41.4	35.5	37.5	44.1	4.7	12.2
		R.ANTTAESLAGLKPAFR.K	2	605.6	388.0	696.9	531.5	1029.4	960.9	772.6	774.9
		R.ANTTAESLAGLKPAFR.K	3	1183.0	757.6	853.7	512.0	2144.8	2123.3	1172.1	1160.2
		R.GGGYAVAALC#GAGGQG									
		DALVLR.R	2	314.0	320.3	279.2	274.5	359.5	328.5	236.7	198.1
		R.GGGYAVAALC*GAGGQG									
		DALVLR.R	2	314.0	320.3	266.6	268.3	359.5	328.5	230.2	185.0
		R.IALHAALELAR.R	2	273.9	286.5	162.8	186.2	314.7	281.8	106.8	115.2
		R.KGDPIEFAEDEGIR.A	2	489.9	387.2	526.4	462.0	659.9	719.0	554.7	589.0
		R.KGDPIEFAEDEGIR.A	3	248.1	145.3	102.4	40.0	342.1	326.0	156.7	157.8
		R.QAAVAAGIPWDVAAL SIN									
		K.M	2	195.2	183.1	189.9	197.9	366.8	317.7	231.7	235.3
MSMEG	MSMEG										
_4921	4906	K.DAGGVLIELVEPSPEEH	2	127.7	154.0	14.8	24.8	176.5	183.9	13.3	18.0
		K.GSAQIQLLAPIDEK.S	2	194.3	214.4	433.0	484.9	261.7	266.3	403.7	444.5
		R.GPGLQQLAYR.T	2	2.5	2.1	6.1	6.2	3.4	5.6	6.6	7.7
		R.PALASALVTAIDHVGIAVP									
		DLDAAK.W	3	273.0	319.2	82.4	92.0	297.8	338.9	58.7	65.0
		R.PALASALVTAIDHVGIAVP									
		DLDAAK.W	4	79.7	51.7	14.6	9.9	93.3	93.5	13.3	12.8
MSMEG	MSMEG	R.AGAGLVLAGLVADGETEV									
_4932	4917	HDVFHIDR.G	4	56.9	50.4	11.6	11.8	46.3	61.0	9.2	10.4
		R.GIPQLSSAPVWSSDIR.A	2	205.3	216.5	273.6	245.7	184.4	196.8	199.1	208.7

R.GYPLFVENLVSLGAEIER.													
MSMEG		MSMEG		V	2	67.2	66.0	13.4	10.7	78.9	78.4	5.2	9.9
_4934		4918		R.LSGEVAVGGAK.N	2	4.9	3.6	0.1	0.0	5.0	3.7	0.0	0.0
MSMEG		MSMEG		R.LSDLLFILSR.V	2	63.6	62.1	33.7	40.6	49.1	46.4	22.3	23.2
_4935		4920		R.SAWIAVNEFGDSVSVLPA									
MSMEG		MSMEG		K.Y	2	127.2	124.9	61.1	65.1	81.9	94.7	39.6	48.7
_4936		4921		R.VANPEGDVLWKPGANQ	2	230.7	236.5	153.0	152.1	225.7	232.6	160.9	170.1
MSMEG		MSMEG		R.ELWSGPATFVFTR.T	2	62.7	63.3	108.7	105.8	239.6	216.5	146.9	123.8
_4937		4922		R.HIPLVAQLVDDAMVR.V	3	7.9	6.5	10.7	11.0	25.6	25.2	9.0	9.5
MSMEG		MSMEG		R.IAVDGGFLSVTEETVR.I	2	125.8	125.8	103.8	104.5	258.4	248.3	102.4	90.2
_4938		4923		R.ILVENAQFESEIDADAACE									
MSMEG		MSMEG		DAASDDER.T	3	64.8	73.1	82.5	104.6	270.0	259.6	121.2	121.0
_4939		4924		K.DTALVFGQMDEPPGTR.M	2	246.8	252.3	323.0	300.2	339.2	393.0	136.1	149.3
MSMEG		MSMEG		K.GEFDFHLPEQAFFLIGGLD									
_4940		4925		DLAK.K	2	13.6	20.1	30.9	44.1	55.5	78.7	29.4	40.4
MSMEG		MSMEG		K.GEFDFHLPEQAFFLIGGLD									
_4941		4926		DLAK.K	3	254.0	286.7	529.7	609.3	968.0	1054.0	657.0	727.6
MSMEG		MSMEG		K.GHVFNALGDC#LDDPGY									
_4942		4927		GK.D	3	35.2	33.3	74.9	65.0	100.1	124.1	58.8	64.7
MSMEG		MSMEG		K.GIFPAVDPLASSSTILDPAI									
_4943		4928		VGDEHYR.V	3	482.2	517.8	947.7	997.1	1618.7	1798.3	1078.4	1183.7
MSMEG		MSMEG		K.IALFGGAGVGK.T	2	12.6	12.0	22.3	21.4	114.9	91.3	32.6	17.8
_4944		4929		K.TLTLEVAQHLGDSLVR.C	2	174.3	171.0	730.3	804.7	676.0	622.8	830.1	866.2
MSMEG		MSMEG		K.TLTLEVAQHLGDSLVR.C	3	166.4	144.9	266.9	237.8	654.7	594.2	300.9	296.2
_4945		4930		K.TVLIQEMINR.I	2	52.2	61.8	104.7	90.9	245.3	249.0	124.2	189.2
MSMEG		MSMEG		K.VVDLLTPYVR.G	2	120.2	97.8	244.8	193.4	716.4	624.4	384.0	372.6
_4946		4931		R.DEQQDVLFLIDNIFR.F	2	217.1	233.8	326.7	344.7	442.4	656.4	283.9	418.6
MSMEG		MSMEG		R.DEQQDVLFLIDNIFR.F	3	12.1	12.0	8.9	14.1	32.6	44.6	11.7	19.8
_4947		4932		R.EGNDLWVELADANVLK.D	2	196.7	183.8	327.7	294.6	593.0	515.2	336.0	291.2
MSMEG		MSMEG		R.FTQAGSEVSTLLGR.M	2	537.1	510.8	2106.2	2252.6	1979.5	1976.7	2010.4	2107.6
_4948		4933		R.GVEVTDTGASISVPVGDG									
MSMEG		MSMEG		VK.G	2	419.4	492.2	917.0	1025.3	1703.3	1603.3	942.3	1001.3
_4949		4934		R.ITGPVVDFEFPR.G	2	394.6	407.1	763.5	773.0	1306.6	1277.7	1110.8	1102.2

		R.NFGGTSVFAGVGER.T	2	188.3	164.1	315.2	239.8	811.6	657.0	502.7	390.2
		R.VALSALTMAEFFR.D	2	123.9	113.1	301.4	350.6	430.6	371.8	285.3	217.5
		R.YKDLQDIIAILGIDELSEED									
		KQLVNR.A	3	23.6	33.6	81.9	89.5	128.5	180.4	75.7	117.4
MSMEG	MSMEG	R.AAPMEVEYVGEGVETGPR.									
_4937	4922	T	2	7.8	13.0	16.1	17.7	44.1	47.2	3.4	4.6
		R.AEELFSLLR.D	2	2.9	3.7	15.1	14.4	21.5	23.4	19.7	20.6
		R.PYAAEITNMILTELAGASAL									
		DHPLLVER.K	3	28.5	36.3	34.4	38.1	29.0	40.8	7.2	12.7
		R.RAEELFSLLR.D	2	26.1	34.5	46.5	54.9	46.4	45.0	63.3	58.4
		R.TLYSFEPDPETLFDALLPR									
		.Y	2	17.9	25.1	30.8	36.7	48.4	66.4	10.2	17.0
MSMEG	MSMEG	R.VYAALLEAAASESASR.R	2	28.0	26.6	55.0	63.8	108.7	104.1	71.9	100.9
_4940	4926	K.SAEQVAAAQADYEKEM*A									
		EAR.A	3	2.0	3.8	3.8	8.2	15.6	19.5	20.2	17.8
		R.AQASGEVAQTLTQADQQ									
		LSAQGDQVR.S	3	90.2	111.0	78.2	93.2	218.5	224.3	63.3	65.9
MSMEG	MSMEG	R.LQALAEQAEADASADR.									
_4950	4935	A	2	16.6	18.1	2.5	2.4	7.4	14.7	1.5	0.5
MSMEG	MSMEG	K.TGIHPEYVDTTVQC#GC#									
_4951	4936	GHSFTTR.S	3	174.5	198.0	98.3	118.3	214.3	201.0	117.3	115.3
		K.TGIHPEYVDTTVQC#GC#									
		GHSFTTR.S	4	344.3	386.3	163.8	192.4	335.0	377.8	146.9	177.8
		K.TGIHPEYVDTTVQC*GC*G									
		HSFTTR.S	3	174.5	198.0	98.3	118.3	214.3	201.0	117.3	115.3
MSMEG	MSMEG	R.AAAMPASAELYLAILR.R	2	46.7	49.8	45.8	42.5	56.2	56.4	63.6	66.4
MSMEG	MSMEG	K-AAVHQWPGLIEAYR.D	3	154.9	132.7	48.6	58.3	101.3	112.1	27.7	53.7
_4955	4941	R.IGSPASWNSAVEAQQQS									
		DGR.F	2	134.4	76.8	73.0	45.0	85.7	102.1	58.2	78.8
		R.IGSPASWNSAVEAQQQS									
		DGR.F	3	120.7	91.1	46.3	30.2	93.9	114.0	27.9	52.5
		R.LPIGDDWTTVTLEGTP									
		LIHAK.R	3	176.5	198.9	171.8	175.6	98.5	81.0	109.4	109.9

MSMEG	MSMEG										
_4957	4943	K.LPIAPIGFIPTR.Y R.EGITTVSAEDFASAR.A	2 2	99.9 199.2	84.7 184.3	81.1 279.5	70.9 258.3	109.6 200.9	94.9 195.7	116.3 348.4	86.4 321.3
MSMEG	MSMEG										
_4958	4944	K.FGTPLFVIDEDDFR.T R.PAVVAVADGQAR.L	2 2	133.6 10.7	121.8 9.7	436.9 6.5	440.2 5.3	144.2 8.3	119.5 6.6	413.9 3.8	425.5 2.2
MSMEG	MSMEG	K.GEPTPEDGYAGDYIVDIA QQVIAK.A	3	87.6	76.7	151.0	128.9	113.2	105.8	221.7	168.4
_4959	4945	R.AGTVITLDDLVEAIGVDA R.Y	2	112.9	112.2	141.7	143.5	96.7	101.4	101.2	134.6
		R.AGTVITLDDLVEAIGVDA R.Y	3	48.2	51.6	33.0	37.5	56.3	52.3	48.0	37.8
MSMEG	MSMEG										
_4971	4957	R.AALQNPEFTETVVTR.A	2	33.2	41.9	97.7	96.8	11.1	13.3	149.6	153.0
MSMEG	MSMEG										
_4974	4960	K.AQGIPAQFLVDILSDLR.T R.PADAISIADVLR.C	2 2	5.4 9.8	4.9 11.3	5.3 12.1	3.9 13.0	6.1 10.4	7.5 12.6	8.4 13.0	9.5 11.7
MSMEG	MSMEG										
_4976	4962	K.NFPNSFVQTDLQQR.L R.EEIGAIVESVAPR.G R.GAFNLGFAPTVAAATAT R.S	2 2 2 2	270.3 172.5 599.1	300.0 188.5 70.5	232.6 327.6 415.7	299.5 347.4 181.9	327.2 192.6 583.6	351.0 211.5 625.1	212.1 267.3 361.6	242.1 295.6 376.3
		R.GVM*ELEGVQAALDATAE LLDR.A	3	37.3	33.1	52.8	51.4	47.0	48.7	42.0	41.3
		R.GVMELEGVQAALDATAEL LDR.A	2	7.3	0.0	7.4	0.0	8.1	10.9	4.2	6.9
		R.GVMELEGVQAALDATAEL LDR.A	3	44.2	39.3	60.5	57.8	56.6	59.7	49.6	49.0
		R.LADSALVLIDC#QNTYTR. G	2	34.6	39.3	21.5	22.8	44.6	46.6	17.3	16.5
		R.LADSALVLIDC*QNTYTR. G	2	34.6	39.3	21.3	22.5	44.6	46.6	17.3	16.5
		R.TAGIPIIIHQHDSGPSPY DVR.E	3	99.5	115.2	69.2	86.1	132.7	127.0	72.2	59.2
		R.TAGIPIIIHQHDSGPSPY DVR.E	4	154.0	163.7	96.9	103.2	184.4	196.8	83.9	88.4

MSMEG	MSMEG	R.AGEITHFTGIDSPYQRPK.									
_4978	4965	H	4	9.1	10.2	4.8	3.9	3.9	9.5	1.2	3.9
MSMEG	MSMEG										
_4985	4972	K.HVAVVAC#MDAR.L	2	2.2	1.8	1.1	1.0	1.2	0.7	0.9	0.3
		K.TFSGPLPLPPSK.H	2	128.9	146.3	74.2	101.4	63.9	73.5	44.2	52.1
		R.AIQGETGIKPEWAAESFT									
		DLEEDVR.Q	3	1191.6	1279.8	948.0	989.3	946.2	975.6	890.5	837.0
		R.GFIFDVATGKL	2	230.5	214.0	178.2	156.0	191.1	195.3	176.9	163.0
		R.ILGLGDGEAHVIR.N	2	166.0	189.2	133.7	131.3	144.9	134.7	139.8	109.8
		R.ILGLGDGEAHVIR.N	3	503.1	0.0	308.6	0.0	470.1	450.1	305.4	265.2
MSMEG	MSMEG										
_4997	4983	K.HLAHDVAVMYK.G	3	1.4	0.2	2.3	0.8	0.1	0.0	0.6	0.6
MSMEG	MSMEG										
_5006	4992	K.FPTSAIAVLR.F	2	3.9	0.0	3.0	0.0	4.4	5.2	2.8	2.6
MSMEG	MSMEG										
_5005	4993	R.FWYEQGSLDNER.Q	2	41.8	48.8	32.0	33.4	29.4	35.7	27.7	31.1
		R.WQAANPAGLVDITR.F	2	112.2	120.5	77.0	80.4	85.7	95.3	72.2	66.1
MSMEG	MSMEG										
_5022	5007	K.ADLTFAASLPYR.I	2	3.4	3.5	8.7	10.5	9.2	9.3	14.7	10.2
		R.AWTLLTTLQELK.G	2	1.9	1.5	27.7	28.1	18.3	12.4	53.1	33.9
		R.VDAWLADFESALAAR.D	2	5.7	6.3	27.5	31.8	16.3	13.6	44.5	31.7
MSMEG	MSMEG	K.GSLLLEDVGVPPLPALADLV									
_5037	5024	SGVEK.I	3	118.4	150.3	46.1	61.0	87.1	113.0	46.7	63.8
MSMEG	MSMEG										
_5042	5030	K.LIEAELPSVEDVNAQR.V	2	102.7	108.5	99.6	111.0	78.7	88.9	105.8	149.5
		K.TAAFAIPILSK.I	2	29.3	27.8	18.5	18.8	25.6	18.8	24.4	22.8
		K.VPGHIVGAIANEGLHR.									
		N	4	62.1	43.6	25.4	22.3	47.9	50.9	38.7	46.5
		K.YLHDPVEVTVK.A	3	6.4	3.0	1.5	0.0	2.5	1.3	2.2	0.9
		R.DSISDSLNAAPGIDLFR.R	2	46.2	46.7	34.2	39.5	24.2	26.7	37.8	30.8
		R.ELALQVAEAFGR.Y	2	38.7	37.0	160.4	156.4	36.0	39.9	175.6	159.0
		R.ESNVPLADIAAAALAVQTR.									
		N	2	30.8	42.3	25.8	36.5	21.6	28.6	31.6	43.1
		R.ISHVINYDIPHDTESYVHR.									
		I	4	39.0	45.2	29.8	35.0	18.0	34.1	15.0	40.3
		R.ISHVINYDIPHDTESYVHR.									
		I	5	28.7	28.2	19.2	15.6	15.6	28.4	16.1	32.6

		R.LDYSLVELPEK.L	2	22.3	19.6	18.5	16.1	3.0	10.6	3.4	7.7
		R.YGSHLPQNVNLPIYGGSS									
		YTVQLSGLR.R	3	75.4	86.4	66.2	70.2	49.0	66.8	60.5	84.7
MSMEG	MSMEG	K.NLPATVEGANGLSDDPGT									
_5048	5036	AAK.V	2	8.3	12.6	16.4	23.2	3.9	4.5	9.0	17.1
MSMEG	MSMEG										
_5049	5037	K.DGIQRPLIVFTP.K.S	2	91.1	75.0	93.8	88.6	125.3	89.5	151.6	108.1
		K.DGIQRPLIVFTP.K.S	3	139.7	125.7	127.1	118.6	130.3	138.1	131.9	129.4
		K.DVVIDM#LC*YR.R	2	8.9	7.6	19.2	22.8	4.5	5.2	20.0	21.7
		K.DVVIDM*LC#YR.R	2	8.8	7.7	18.7	22.8	4.4	5.2	19.3	20.4
		K.DVVIDMLC#YR.R	2	56.8	54.4	55.0	54.7	52.4	44.3	54.7	47.9
		K.DVVIDMLC*YR.R	2	56.7	54.3	55.0	54.7	52.4	44.1	54.7	47.7
		K.HEIEPSESVEADQQIIPSK.L	2	5.5	3.7	4.7	2.6	3.8	2.2	2.9	1.3
		K.HEIEPSESVEADQQIIPSK.L	3	104.2	86.8	128.4	91.2	38.0	42.9	45.4	48.6
		K.ISFTHLLGYAIVQAVK.K	2	40.6	37.2	51.2	50.0	45.0	32.2	54.8	41.9
		K.ISFTHLLGYAIVQAVK.K	3	94.1	91.5	87.8	86.6	84.7	78.6	85.3	74.7
		K.IYYELAAR.K	2	2.9	3.2	1.1	1.0	3.1	2.2	0.8	1.2
		K.LNAAEAFETFLQTK.Y	2	292.6	244.2	325.1	273.6	305.4	223.3	380.8	261.6
		K.LNAAEAFETFLQTK.Y	3	33.3	38.5	39.2	42.9	32.5	35.4	40.5	40.9
		K.LRDILSVLR.D	2	0.5	0.1	0.1	1.0	3.4	3.4	1.1	1.8
		K.LTAEDFSGVTISLTNPGL									
		GTVHSVPR.L	3	425.6	389.5	442.8	399.1	396.9	348.7	451.1	405.0
		K.M*IGAPIFHVNNGDDPEAC#									
		AWVAR.L	3	43.5	39.9	39.3	34.3	11.3	19.6	10.7	18.5
		K.MIGAPIFHVNNGDDPEAC#A									
		WVAR.L	3	43.5	39.9	39.3	34.3	36.4	43.1	36.3	43.7
		K.MIGAPIFHVNNGDDPEAC*A									
		WVAR.L	3	43.5	39.9	39.3	34.3	36.4	43.1	36.3	43.7
		K.NM#NASLEVPTATSVR.A	2	42.9	36.9	42.7	39.3	21.4	22.6	40.0	37.8
		K.NM*NASLEVPTATSVR.A	2	88.2	110.6	72.0	78.2	85.3	131.7	83.7	98.6
		K.NMNASLEVPTATSVR.A	2	304.9	326.9	331.7	322.8	288.4	308.0	326.2	300.2
		K.PTAITPAHTNLGLAIDLQG									
		K.D	3	51.9	43.9	36.4	35.4	27.6	27.6	14.0	19.0

K.PYSQIFSEFEGNLNPSQA									
HGSGDVK.Y	3	158.2	143.8	145.1	125.3	112.6	114.3	103.1	89.7
K.TGEEFTPLQLLATNPDG									
PTGGK.F	2	139.8	124.0	152.7	132.1	129.9	108.7	145.5	126.3
K.TGEEFTPLQLLATNPDG									
PTGGK.F	3	205.9	211.1	225.9	223.9	119.8	172.1	143.7	198.6
K.VHAVEQQEILDTAFG	2	628.3	600.7	885.8	780.6	491.6	420.5	879.0	677.1
K.WGQLSDVVLLPHGHEG									
QGPDHTSGR.I	4	67.5	54.5	72.9	53.4	88.5	87.7	111.0	92.1
K.WGQLSDVVLLPHGHEG									
QGPDHTSGR.I	5	42.3	37.2	34.0	29.6	56.0	60.9	54.4	53.2
R.ELEKHEIEPSESVEADQQI									
PSK.L	3	133.8	125.7	135.1	123.0	201.4	153.2	237.5	163.5
R.ELEKHEIEPSESVEADQQI									
PSK.L	4	247.1	279.1	224.3	249.2	227.1	300.1	217.4	278.2
R.FGQFIAAYEDIVR.R	2	377.8	327.8	404.8	326.4	400.2	314.6	489.1	311.0
R.GHLMADIDPLR.L	2	33.4	30.6	141.8	145.3	32.8	29.8	108.1	93.2
R.GHLMADIDPLR.L	3	58.3	42.8	38.2	25.9	43.3	43.2	27.8	28.6
R.GHNEGDDPSMTQPYMYD									
VIDTK.R	3	55.6	58.3	61.7	64.4	31.6	38.5	30.2	42.6
R.HFAVVDGKPTAITPAHTNL									
GLAIDLQGK.D	4	242.4	228.3	232.6	254.7	168.6	188.4	198.4	258.7
R.HFAVVDGKPTAITPAHTNL									
GLAIDLQGK.D	5	28.1	28.5	26.7	24.1	14.5	20.1	15.3	25.0
R.HVGVEYTHILEPEQQR.W	2	21.9	17.3	19.5	13.4	32.6	19.6	31.9	18.9
R.HVGVEYTHILEPEQQR.W	3	404.2	422.1	529.7	520.2	271.0	290.7	407.0	447.4
R.HVGVEYTHILEPEQQR.W	4	107.0	100.2	103.9	93.0	88.0	89.2	89.0	85.4
R.IEQLAPLPR.R	2	8.6	8.2	2.3	4.3	9.6	9.0	3.1	3.8
R.IGDAHLALPEGFTVHPR.V	3	87.6	78.2	81.3	72.3	93.7	82.3	95.4	77.1
R.IGDAHLALPEGFTVHPR.V	4	216.8	208.5	207.3	195.5	197.0	216.0	206.2	218.6
R.IIQGAESGDFLR.T	2	298.9	257.8	280.6	244.7	176.4	185.6	173.6	183.0

		R.KTGEETPLQLLATNPDG									
		TPTGGK.F	3	120.3	115.2	129.3	110.3	124.3	121.8	139.7	127.6
		R.LNVLANIVGK.P	2	66.7	64.1	55.8	54.2	48.8	51.2	41.6	37.8
		R.LNVLANIVGKPYSQIFSEF									
		EGNLNPSQAHGSGDVK.Y	4	66.5	80.9	61.3	69.3	48.0	72.7	52.4	72.5
		R.RLAETLDRYPTNVK.E	3	2.5	2.0	4.4	4.1	2.2	2.7	3.8	5.0
		R.SHPDLDVNSHGLTLWDL									
		DR.E	3	138.8	132.9	191.4	172.1	112.7	118.2	139.8	138.7
		R.SVLEEPMYTDGEGDR.N	2	93.0	79.7	96.3	80.7	30.6	40.8	32.2	41.3
		R.TIHQLLLDDDFDEIFR.E	2	4.0	4.1	3.0	3.0	7.8	3.8	5.8	4.3
		R.TIHQLLLDDDFDEIFR.E	3	49.8	46.2	38.7	42.5	54.9	41.8	52.4	45.1
		R.TTTAAPVTTPPTPAPAPAP									
		EPK.A	2	254.1	227.3	333.9	292.4	258.1	216.1	363.3	302.7
		R.TTTAAPVTTPPTPAPAPAP									
		EPK.A	3	143.3	176.5	208.6	239.4	93.7	155.8	153.0	231.4
		R.VIELIAAYR.N	2	162.2	158.1	171.1	168.5	152.3	156.6	179.3	180.9
MSMEG	MSMEG										
_5053	5041	R.EAFLLYADAVK.E	2	14.6	10.7	21.8	20.6	16.4	16.0	24.2	23.3
MSMEG	MSMEG										
_5055	5043	R.ALSIAYTPGVAQVSR.A	2	493.4	478.2	890.1	836.6	415.8	413.7	985.0	891.1
		R.LRPTFGAVNLEDISAPR.C	3	235.7	220.5	193.9	181.6	192.7	197.8	56.6	69.3
		R.SDFPNQINNVLAFCGVFR.									
		G	2	271.6	251.7	166.9	154.2	233.9	219.6	163.2	163.5
		R.TPQVVIEDSEIFAAHEGGK									
		.L	3	130.9	115.0	22.7	21.0	113.0	122.9	13.5	22.6
MSMEG	MSMEG										
_5058	5046	K.ILDLSELLDR.K	2	37.3	34.8	65.4	73.5	87.7	75.9	86.5	74.3
		K.LSIFDAATGLNLTR.D	2	46.4	48.1	73.9	78.3	77.4	69.2	138.4	112.1
MSMEG	MSMEG										
_5062	5050	R.GWPIGSYPTYAEAQRA	2	48.0	55.4	90.6	100.4	56.8	66.0	81.0	77.3
MSMEG	MSMEG	K.TLPADQVFLEDAVAAD									
_5064	5052	AK.A	2	82.7	91.8	62.6	63.6	35.6	40.9	30.5	34.2
		R.IGIEPQIEDALGLTNVEAIA									
		AGPR.V	3	40.1	43.5	42.8	52.2	52.2	53.0	32.5	33.1

			R.VQALVLGPGDMAASLR.M	2	34.4	41.4	29.9	29.2	40.4	43.5	32.1	29.4
MSMEG	MSMEG	R.ADDIGAGAVTPAVGALLS										
_5073	5061	VLAR.L	2	20.4	20.6	50.3	54.4	13.5	15.2	34.5	37.3	
		R.ADDIGAGAVTPAVGALLS										
		VLAR.L	3	11.1	10.2	24.5	22.7	6.2	5.9	15.4	13.9	
		R.LTPVLIPLGDGLLAVERD	2	0.8	1.0	100.1	113.2	0.4	0.5	96.3	117.7	
MSMEG	MSMEG	K.VSSFQPFDGYTDSSATEK										
_5086	5074	.K	2	55.9	55.5	114.9	104.1	18.3	23.6	73.0	76.4	
		R.ALAGFGGLGLR.L	2	46.6	40.9	26.9	24.4	39.7	25.5	28.0	21.4	
		R.LATTAPTTNPASASAVLAK										
		.D	2	237.9	208.6	259.0	222.0	202.0	238.6	193.5	223.1	
		R.LPGFLMDAPVILR.G	2	21.9	26.5	22.8	37.5	17.3	16.4	30.3	26.9	
		R.NSVGLLDLATR.L	2	16.5	17.2	16.1	12.1	10.5	7.8	27.8	11.1	
MSMEG	MSMEG											
_5104	5090	R.GAVAVYGINDFPR.M	2	40.3	38.1	115.7	84.6	34.6	32.7	29.8	21.7	
		R.LTGDDVPADLAALTGKD	2	191.2	193.3	170.5	179.2	65.6	69.4	119.2	137.9	
		R.LTGDDVPADLAALTGKDE										
		DRDVEVVAVR.T	4	438.6	456.1	98.7	98.3	304.4	294.2	79.4	77.0	
		R.NSLSGAVEVVK.R	2	41.3	27.7	41.3	35.9	18.2	14.3	46.9	46.0	
		R.TTIADLNDKPADTHDVWL										
		R.L	3	405.1	441.7	282.4	360.4	190.1	235.9	436.2	385.0	
MSMEG	MSMEG											
_5117	5103	R.GVDDFEYQMLYNIR.D	2	47.7	46.5	40.3	27.0	66.5	60.6	56.2	37.7	
MSMEG	MSMEG											
_5119	5104	K.DFVLAHSSAHPDVLR.T	3	0.6	0.3	226.9	214.1	0.2	1.2	132.4	140.9	
		K.MGDDFLSATEALR.Y	2	6.5	10.2	116.7	147.6	5.0	7.9	106.4	121.4	
		K.SAYQAEIDAPC*ELIDFWR.										
		F	2	22.2	26.2	56.3	58.8	20.9	25.5	21.5	30.7	
		K.YGLTGAVIADDR.T	2	2.3	2.2	149.5	121.9	3.9	3.4	81.4	72.8	
		R.AADLLSGPWR.E	2	0.3	0.4	100.4	64.9	0.5	1.3	61.2	31.5	
		R.TAVQQALDGLR.Y	2	30.7	23.6	115.3	71.4	43.4	37.7	93.0	47.9	
		R.YGDVADLTNYGGAVIDDR										
		.A	2	19.3	16.2	151.0	153.7	23.9	14.7	93.3	77.9	
MSMEG	MSMEG	R.AGFVAGDPAVVAELLAVR.										
_5121	5107	K	2	111.5	110.3	114.5	115.2	119.8	105.4	123.4	127.6	

MSMEG	MSMEG	K.DAVAVVTGGASGLGLATT									
_5183	5166	K.R	2	183.4	193.7	194.1	194.0	142.2	148.6	237.3	244.7
		K.FVATDVTDEAGVTEALNV									
		AESLGPRV.I	3	203.3	224.1	195.2	201.1	132.0	143.9	182.8	198.0
		K.GGVVGMTLPIAR.D	2	90.8	85.5	153.2	145.1	86.0	67.7	204.8	162.0
		K.NGPFPPLDGFR.K	2	57.6	55.0	39.1	42.1	33.8	39.3	36.6	41.4
		K.TPLLGSLSPEAQK.S	2	290.6	281.3	460.2	443.1	227.3	229.0	458.6	421.6
		R.LLDAGAQVVVIDLK.G	2	83.8	83.7	194.8	189.4	23.3	29.0	271.8	307.3
		R.VVTIAPGLFK.T	2	159.0	156.2	164.5	163.8	124.7	123.8	167.8	178.9
MSMEG	MSMEG	K.GLGLDGADLPAQNDISR.									
_5184	5167	W	2	64.6	71.5	438.2	638.3	41.7	45.7	258.5	260.2
MSMEG	MSMEG										
_5191	5175	K.AYVHLIDLHR.Q	2	8.1	6.1	8.9	9.8	4.2	3.9	9.4	6.6
		K.AYVHLIDLHR.Q	3	76.1	68.7	32.9	27.1	54.9	53.3	28.7	27.0
		R.ASVWYGATLR.A	2	39.3	35.3	20.2	13.2	20.9	27.3	18.1	21.5
MSMEG	MSMEG	K.SGVHGPALSLHNDVVGPY									
_5197	5179	FK.E	3	35.4	39.6	25.0	39.1	38.0	46.8	34.9	54.5
		R.FNAIIDEEIAK.S	2	35.7	30.2	42.3	65.7	61.0	51.1	26.8	27.7
MSMEG	MSMEG	R.NAINSSVSQAVGDALAEA									
_5198	5180	QNDPEVR.A	3	37.3	41.3	35.5	33.5	68.7	75.1	42.5	57.8
		R.VAYGAEEGTVPAEQPSW									
		K.R	2	33.3	42.1	16.6	24.5	48.9	61.0	10.9	20.8
MSMEG	MSMEG	K.AAAAQDSGAFSDQIVGIK.									
_5199	5181	T	2	242.1	229.0	201.2	162.5	280.2	287.8	181.2	169.6
		R.TAVLSAGWPETVPGVTV									
		DR.Q	2	193.2	206.5	204.9	221.5	238.8	244.0	193.9	265.1
MSMEG	MSMEG										
_5211	5192	K.NFLVTQGDETGVVLK.I	2	87.7	83.3	127.2	125.9	82.9	73.2	118.8	116.1
		R.FNYASVVEFSER.L	2	62.0	64.3	35.3	38.4	62.2	64.5	46.9	39.0
		R.GYLRPSTVAELGALAGR.V	2	23.7	25.6	36.8	27.3	22.7	35.6	23.3	50.5
		R.GYLRPSTVAELGALAGR.V	3	53.9	49.6	63.1	55.8	54.0	47.7	80.2	86.4
		R.LASLLPDPLDTVFLVNSGS									
		EASDLALR.L	3	44.4	62.6	39.0	54.5	25.7	57.6	29.2	63.4
		R.PLFGLPALATDSTDADLV									
		AR.R	2	124.0	123.6	157.6	146.6	120.1	123.9	159.6	154.2

		R.YADEAVAQIQELAAAGR.A	2	104.1	82.9	88.9	102.9	112.0	85.5	123.0	99.2
MSMEG	MSMEG	R.GLGYEIASAFGR.S	2	3.4	2.7	2.2	3.7	2.9	3.6	2.3	1.5
_5215	5199	R.FALYSTGTPDSAESEPAAA									
MSMEG	MSMEG	R.LLVGAAVTLEEAR.K	2	149.9	143.0	260.0	273.0	235.7	320.3	276.5	305.7
_5225	5209	R.S	2	59.7	57.0	459.5	446.8	326.8	294.3	521.5	471.2
		R.LTSLSIGDLEALLYEEAG									
		R.A	2	26.7	35.7	114.1	122.7	75.3	103.7	98.2	122.9
		R.LTSLSIGDLEALLYEEAG									
		R.A	3	8.1	6.6	40.4	39.5	37.5	36.6	40.1	38.8
MSMEG	MSMEG	K.GMPNAISVLAVAER.G	2	201.8	195.1	246.6	259.0	72.9	78.3	164.8	164.4
_5239	5224	K.IAAGPDVADFIDITSPIAANI									
		QR.I	2	332.8	356.6	339.7	358.8	235.3	227.6	275.0	309.0
		K.IAAGPDVADFIDITSPIAANI									
		QR.I	3	349.0	361.3	314.9	327.5	284.3	275.9	344.9	349.0
		R.GAMFDPSAVFYMNK.I	2	135.4	115.6	127.9	114.4	17.7	19.9	21.1	18.0
MSMEG	MSMEG	K.DLGLLDPEKADAIIAAGEI									
_5240	5225	AEGK.H	2	118.7	129.7	111.6	153.2	104.9	113.3	116.8	147.8
		K.DLGLLDPEKADAIIAAGEI									
		AEGK.H	3	944.8	898.1	1053.2	1013.3	1106.9	1053.0	1465.8	1299.3
		K.VVEVLVNETGLAELR.T	2	109.2	104.5	443.9	484.3	99.8	97.8	482.9	469.9
		R.AVENFPISFR.G	2	357.1	259.5	300.7	226.2	446.0	383.7	454.2	418.5
		R.DGLVEASGALR.T	2	80.3	63.7	71.8	61.6	77.8	58.0	60.4	49.6
		R.ELAESSPSIVTPLNSAIGY									
		EEAAK.V	2	317.7	357.9	332.2	388.0	286.9	289.5	355.4	383.6
		R.HLIPALEVLHASLAAK.A	3	427.3	292.2	404.8	282.4	325.4	355.1	381.8	446.1
		R.LGELAIGGTAVGTGLNAP									
		EGFGAK.V	2	492.7	536.8	415.2	455.9	591.2	566.1	546.7	550.8
		R.NLLESFTLLSNVSR.L	2	436.2	442.3	535.1	522.5	512.6	422.4	819.2	711.9
		R.TAVDSFEAQAA.R.D	2	35.3	36.4	40.9	48.3	16.6	15.1	15.8	17.9
		R.THLMDAVPVTLGQEFGG									
		YAR.Q	3	387.4	343.1	320.5	281.7	219.0	215.8	234.0	227.0
MSMEG	MSMEG	R.IVTVDNTSHIFPINVVQN									
_5243	5228	R.T	3	263.5	274.0	15.7	17.8	61.2	71.8	19.4	17.8

MSMEG	MSMEG										
_5244	5229	R.VLLDLLGEGLTNK.Q	2	6.6	0.0	8.7	0.0	1.2	0.9	2.0	2.7
MSMEG	MSMEG										
_5245	5230	R.ALATAEVAIR.Q	2	32.2	26.2	1.3	0.7	2.3	2.8	0.2	0.3
		R.GGIGSVASAVLR.S	2	162.9	159.0	3.1	2.8	25.7	25.5	13.4	13.6
		R.ILVEFDGRPSASTALQTG									
		VDEAR.L	3	342.1	370.1	37.3	47.5	48.3	55.4	17.4	23.1
MSMEG	MSMEG	K.VLLEC#TMGLATC#PVT									
_5246	5231	HVTELHTSR.D	4	226.2	214.0	3.6	4.0	10.3	9.7	16.0	11.0
		R.IGLAPALDEVPPPTPR.R	2	816.7	840.6	250.1	250.1	105.8	113.3	253.6	272.9
		R.LGDGPVHMDTLGEDVRE									
		EVAEAAALTESLR.L	4	69.8	75.8	4.7	5.8	4.3	8.2	4.1	7.0
		R.RPVDAFLEVRPR.S	3	34.5	29.8	3.6	4.7	1.6	2.2	4.4	2.3
		R.VALAAAGWDTEVQR.F	2	789.2	794.2	267.5	197.3	145.9	165.0	579.6	563.9
MSMEG	MSMEG										
_5248	5233	K.SITDALEILLITK.D	2	58.4	47.6	16.2	17.2	40.4	33.4	20.0	18.5
		R.AAGLDVIGADIAPYQDK.V	2	337.7	359.8	114.8	128.6	280.0	293.9	142.2	152.8
		R.IATDEERHEEFFSNLVSYV									
		LDK.H	3	81.3	58.4	19.3	14.5	67.1	70.0	26.4	26.6
		R.ITAWGLAGEASLK.D	2	80.7	87.3	57.6	71.0	69.8	61.4	38.9	56.6
		R.NLQAQITEPVLASLMGR.I	2	148.2	166.5	106.5	107.0	109.3	114.5	117.1	124.3
		R.NLQAQITEPVLASLMGR.I	3	189.1	219.8	78.6	82.1	159.5	213.4	75.5	90.9
MSMEG	MSMEG										
_5249	5234	K.HINDLSEADWETLR.N	2	316.9	353.5	233.1	279.4	257.8	277.6	219.5	218.0
		K.HINDLSEADWETLR.N	3	136.0	118.8	60.3	53.2	120.9	117.4	69.7	64.8
		R.EFKPLVLVAGYSAYPR.R	3	54.4	52.2	29.1	32.9	54.6	51.9	41.4	47.7
		R.FYAGC#QNVDTVESVAAE									
		HAR.E	3	848.5	970.2	1157.8	1245.4	896.3	907.1	1285.7	1294.4
		R.FYAGC*QNVDTVESVAAE									
		HAR.E	3	848.5	970.2	1157.4	1245.4	896.3	907.1	1285.1	1294.4
		R.GGMVLATEEYAPAVDK.G	2	462.5	447.0	759.9	733.5	226.3	243.6	804.0	913.2

			R.NSIPADPNGAWYTSGVR.									
		L	2	309.0	357.6	291.8	377.0	254.1	258.4	212.0	292.5	
		R.SYGTNPETGFLDYDAVA	A	2	374.2	371.8	237.7	270.8	334.2	330.0	284.6	302.2
		AAR.E	2	364.4	360.0	325.9	335.8	333.3	311.0	396.3	367.0	
		R.VHAASSELLSANPLYPGL	TL	2	54.6	55.5	56.5	59.9	26.2	29.6	16.1	25.7
MSMEG	MSMEG	K.LDLLEVEEVYLPLAR.L	2	24.7	26.6	20.1	18.7	35.4	32.5	21.5	32.4	
_5252	5236	R.IEDIEQWYISR.F	2									
MSMEG	MSMEG	R.YLDTVAGGSAAIDIAALYA										
_5258	5243	DDATVEDPVGSGEVHIGR.Q	3	70.4	88.8	64.2	82.7	65.4	85.1	54.9	62.5	
MSMEG	MSMEG	K.AELDQLIANRPVIAEINDR										
_5263	5248	.R	3	297.4	355.6	215.1	244.1	312.7	332.0	193.2	197.2	
		K.LEVYSPNSPLGGALLDAK.	V	2	123.9	125.2	118.4	117.0	105.2	109.7	98.3	89.2
MSMEG	MSMEG	K.VFTHWGSIHTPAALSDL	D	3	190.6	197.0	145.4	136.7	206.2	155.3	155.5	179.8
_5265	5251	SVR.S										
		K.VLVDNTFASPALQQPLL										
		GADIVLHSTTK.Y										
		R.AVLRPGDHHVIPDDAYGG										
		TFR.L										
		R.AVLRPGDHHVIPDDAYGG										
		TFR.L										
MSMEG	MSMEG	K.ITHFVAGVGTGGTITGTG										
_5270	5255	R.Y	3	127.7	116.6	108.0	101.9	106.0	111.1	119.9	113.4	
		K.LADAVAEHMSPPPLIGA										
		GELVSTAAK.T										
		K.SGALPDLVHTHPSETVR.D	4	13.3	10.4	10.4	14.6	4.3	6.5	4.1	4.1	
		R.ELLSAVFEGR.A	2	63.3	41.9	54.1	38.5	52.1	54.0	38.1	57.7	
MSMEG	MSMEG	K.AGEGHAFISAGVETVSR.F	2	413.5	384.6	290.0	281.8	348.8	321.3	333.9	330.8	
_5273	5258	K.AGEGHAFISAGVETVSR.F	3	627.9	514.2	453.2	393.7	502.0	417.0	464.9	427.3	
		K.GSLVEMRPDDLAAQMVK.										
		A	2	258.4	266.1	186.6	217.9	40.8	42.2	43.1	46.4	

		R.AVAVQLGYDFLPGTTVNR									
		.Y	2	1250.5	1242.7	1422.8	1401.5	1115.8	1045.3	1413.5	1455.9
		R.EITPVTLPDGTVVSK.D	2	2184.3	2184.0	2873.9	3045.1	1553.8	1706.4	2680.3	2906.8
		R.ITATLLNNLQTHDK.T	2	192.9	167.7	267.0	290.4	215.0	197.4	293.5	229.0
		R.ITATLLNNLQTHDK.T	3	181.1	157.0	124.3	109.9	237.0	152.2	219.3	132.9
		R.IVSTGVSGLSPEIMGLGPI									
		EAVK.K	2	727.2	728.0	586.1	596.3	286.5	274.6	273.2	275.0
		R.IVSTGVSGLSPEIMGLGPI									
		EAVKK.A	3	214.9	192.8	200.8	188.1	185.3	184.6	206.7	200.1
MSMEG	MSMEG										
_5274	5259	R.LAAETLGVPPTSPYR.F	2	117.5	114.3	328.1	359.6	150.2	136.3	339.7	360.9
MSMEG	MSMEG										
_5285	5270	R.IGEIAAQQTQTVPESVR.R	2	161.4	164.7	22.7	23.1	39.2	46.7	14.4	17.1
MSMEG	MSMEG	K.GVDESDVLQDAIAAVAADY									
_5358	5339	NR.T	2	124.9	138.9	76.7	78.2	77.7	77.2	82.1	71.7
		K.GVDESDVLQDAIAAVAADY									
		NR.T	3	67.4	74.2	19.9	21.3	56.8	54.7	35.2	34.4
MSMEG	MSMEG										
_5359	5340	K.ADAAGLVVAAR.I	2	0.1	0.0	2.4	0.0	0.0	0.1	3.0	2.1
		K.HLDAPLVWC*VAALLGQH									
		PLSAEQAEK.V	3	2.5	0.0	38.9	0.0	4.1	3.1	42.5	41.0
		K.HLDAPLVWC*VAALLGQH									
		PLSAEQAEK.V	4	0.3	0.4	36.1	33.5	0.5	0.6	34.8	38.3
		R.FHEALNVYGPALK.E	2	4.4	4.7	327.2	403.7	6.2	6.4	386.3	342.9
		R.FHEALNVYGPALK.E	3	4.6	6.2	124.8	130.5	9.0	7.3	137.5	124.5
		R.GIDPALQSDPTIYR.F	2	33.3	37.4	456.3	497.8	37.0	41.7	471.9	436.8
		R.NGLSWADI.K.H	2	5.1	4.2	64.6	64.3	3.9	5.6	48.2	56.2
MSMEG	MSMEG										
_5397	5377	R.EVIDILGLR.K	2	7.9	6.2	35.9	21.3	7.5	5.2	43.1	20.4
MSMEG	MSMEG	R.ALFESSIONDPATFWADAA									
_5404	5383	K.A	2	72.6	78.1	42.9	46.5	24.5	31.5	44.7	49.5
		R.GDQAALIYDSPVTGT.K.R	2	85.8	77.1	51.6	69.5	30.0	29.3	45.3	86.4
		R.GIADGKDEPVPSIEDPSV									
		LDDLK.S	3	101.0	107.3	51.4	65.1	38.8	48.3	38.6	62.8
MSMEG	MSMEG	R.LGQQVGDATGQFAPEALA									
_5413	5393	R.T	2	22.9	27.1	294.8	325.0	26.0	26.3	171.6	186.4

MSMEG	MSMEG										
_5415	5395	K.AAAESAGLPLFR.Y	2	37.5	38.6	73.6	84.3	46.3	48.9	76.3	89.4
		K.AALDLISSAIEATGLK.L	2	1929.3	1638.3	2002.6	1797.6	1555.6	1344.0	1924.2	2015.5
		K.AALDLISSAIEATGLK.L	3	127.0	150.5	87.8	111.0	132.8	114.5	117.0	116.4
		K.AVEAVLDEIAPQVIGLSAD									
		DQR.L	2	374.3	436.3	256.8	293.1	193.5	265.1	171.4	255.7
		K.AVEAVLDEIAPQVIGLSAD									
		DQR.L	3	807.8	723.4	646.4	605.8	712.7	595.3	855.8	755.3
		K.LGSDVALALDVAATEFYTE									
		GSGYAFEK.E	3	84.8	92.2	69.3	78.2	28.7	43.7	36.7	40.6
		K.NQGLATGLGDEGGFAPD									
		VAGTK.A	2	1227.9	1364.3	1038.8	1041.3	813.5	815.0	1168.5	1116.4
		K.VNQIGTLTETLDAVSLAHN									
		SGYR.T	3	2712.1	2479.4	2108.9	1957.8	2099.6	1926.6	2511.8	2277.6
		R.AAVPSGASTGEHEAVELR									
		.D	2	75.7	48.7	55.6	38.0	72.3	49.4	74.5	52.6
		R.GNPTVEVEVALTDGTFAR									
		.A	2	337.9	299.0	338.7	333.4	210.2	213.6	394.5	405.3
		R.IQLVGDDLFTVNPER.L	2	1882.1	1783.1	1891.5	1811.8	1725.9	1573.0	2529.7	2217.1
		R.LVDQALLLDGTPDK.S	2	1829.6	1778.9	1371.6	1427.5	1380.2	1273.0	1445.0	1443.2
		R.SGETEDTTIADLAVAVGS									
		GQIK.T	2	430.5	434.8	366.7	407.0	331.5	286.4	393.7	375.7
		R.SGETEDTTIADLAVAVGS									
		GQIK.T	3	249.9	221.3	240.4	222.9	156.1	134.2	264.0	224.7
MSMEG	MSMEG										
_5419	5399	K.ITGEEDIFSHTDLWDFR.A	3	179.6	159.4	83.3	75.5	66.8	57.5	133.9	99.1
		K.SNQITVEASDTEC#K.L	2	35.6	27.5	19.1	14.7	9.0	8.3	13.0	12.3
		K.SNQITVEASDTEC*K.L	2	35.6	27.5	19.1	14.7	9.0	8.3	13.0	12.3
		R.ANVEGSQTAVASVR.P	2	18.1	15.9	13.7	11.3	1.4	1.3	9.4	8.0
		R.ANVEGSQTAVASVRPILD									
		ER.D	3	264.3	250.7	72.4	71.6	62.3	52.7	54.3	38.9
		R.FADVEALLEK.Y	2	259.2	216.6	62.0	62.6	95.4	101.4	86.4	80.1
		R.IEPVAESFPDDLDPR.I	2	423.5	435.5	145.4	171.9	152.9	154.3	155.3	149.3
MSMEG	MSMEG	R.AHVATGGYAAVVTPIGT									
_5423	5404	AHR.V	3	15.4	11.6	8.1	8.5	10.6	9.0	17.9	11.6
		R.EFGITEIGAVSASTVR.L	2	29.8	23.4	60.5	47.2	19.7	16.8	59.8	50.8

		R.IEHQVAHEVVSEVDVRPR.								
		N 5	26.3	16.5	0.0	0.2	41.2	47.4	0.5	0.5
		R.LASLGPLLNDLEAR.V 2	78.0	73.1	25.3	33.2	111.2	74.1	20.2	13.7
		R.NVVVLGPGSIPK.T 2	46.3	41.8	67.4	54.3	58.0	34.4	54.3	54.3
		R.RIEHQVAHEVVSEVDVRP								
		R.N 3	38.0	25.9	317.5	378.9	68.2	64.7	30.8	42.1
		R.RIEHQVAHEVVSEVDVRP								
		R.N 4	277.9	275.4	61.6	79.3	335.1	425.7	64.1	80.8
		R.RIEHQVAHEVVSEVDVRP								
		R.N 5	174.2	163.5	15.9	17.6	252.2	293.5	7.8	19.6
MSMEG	MSMEG									
_5438	5418	R.VTAVEIDPLLAR.Q 2	182.5	162.2	527.8	496.8	219.1	198.8	451.0	444.7
MSMEG	MSMEG									
_5441	5421	R.VNADLANELGNLAQRS.S 2	87.1	87.9	88.3	72.4	87.9	76.1	68.2	69.5
MSMEG	MSMEG	K.ELLPVVDTPGIELVAAEAA								
_5471	5450	EAGAER.L 3	168.6	169.3	151.7	147.0	172.3	207.7	211.6	200.2
		K.GMVEKPRPEDAPSHFAAA								
		GR.Y 4	2.4	1.6	2.3	1.3	2.0	2.0	1.2	1.6
MSMEG	MSMEG	R.FDAVQAFSDDALTTC#PK.								
_5479	5458	C 2	43.2	46.5	0.4	0.6	31.9	30.8	0.0	1.1
MSMEG	MSMEG									
_5485	5465	R.ASGLAAGIVDAGLSR.G 2	138.6	147.7	156.9	171.0	151.0	158.9	171.1	163.0
		R.ELLGISEALR.A 2	135.7	139.9	134.5	126.8	163.5	155.8	145.5	129.0
		R.GLAGISGSTLVVNIAGSR.								
		A 2	178.8	196.4	402.2	409.4	178.2	179.5	458.2	412.4
MSMEG	MSMEG									
_5486	5466	R.VIGSADALVAAVR.S 2	29.2	19.7	26.8	14.2	11.2	13.0	14.9	21.4
MSMEG	MSMEG	R.VAGLDAGADDYLPKPFAL								
_5488	5468	EELLAR.M 3	45.8	52.3	90.7	88.3	37.2	39.2	112.3	116.7
MSMEG	MSMEG									
_5489	5469	K.AEAPGLTVSVAGQQR.K 2	499.5	512.7	205.8	208.7	475.2	531.0	227.4	243.2
		K.AEAPGLTVSVAGQQR.K 3	51.3	48.8	24.0	20.3	44.4	53.1	28.7	35.5
MSMEG	MSMEG									
_5512	5490	K.DVVAALPDLPaidaiahrl. 3	60.4	50.5	68.8	67.4	36.4	41.0	68.1	70.9
		K.LATPDTSVADLVGDIDPIK.								
		V 2	122.7	124.7	189.6	182.9	91.3	87.6	208.5	201.2

		K.TMGHAGAIVSGSSGTAAA									
		K.K	3	14.5	10.8	18.9	13.9	23.9	15.3	15.8	9.8
		K.VIVMIGEIGGDAEER.A	2	130.1	134.0	93.2	107.6	181.8	170.5	71.7	68.0
		K.VIVQGITGGEGTK.H	2	11.1	10.3	4.5	3.8	20.4	19.9	2.3	4.8
		R.IIGPNC#PGIITPGEALVGIT									
		PNNITGK.G	3	267.0	211.1	322.0	284.5	600.0	654.3	470.0	529.3
MSMEG	MSMEG	K.EDATLVEVNPLVR.T	2	2176.5	1973.4	2051.5	2005.9	2448.3	2594.8	2248.8	2272.1
_5525	5503	K.LWEVFVK.E	2	41.0	19.5	6.7	6.2	84.5	87.9	32.0	33.1
		K.TIAEEIGRPVMVK.A	2	5.0	5.2	293.2	289.1	23.3	25.5	223.6	296.8
		K.VTLDENAGFR.Q	2	383.6	285.9	357.4	282.9	373.7	321.9	330.8	286.5
		K.YAATPDDAFTHANNILGLD									
		IK.G	2	470.3	512.4	365.7	402.4	526.2	500.6	369.8	352.8
		K.YAATPDDAFTHANNILGLD									
		IK.G	3	2257.2	2135.8	1733.9	1642.0	2512.2	2498.2	1939.9	1812.3
		R.ILAEANHPLVIQAETM#DA									
		GADK.A	3	425.0	437.6	354.5	376.1	455.9	416.8	311.5	313.3
		R.ILAEANHPLVIQAETM*DA									
		GADK.A	3	481.4	500.1	397.7	434.0	564.2	532.8	397.2	402.7
		R.ILAEANHPLVIQAETMDAG									
		ADK.A	3	2364.7	2309.6	2245.4	2242.0	1473.7	1388.9	1292.7	1231.2
		R.SIAEQGHLPAEVLDAAAVT									
		IQK.L	2	657.7	737.3	607.2	669.3	659.1	659.0	580.9	586.8
		R.SIAEQGHLPAEVLDAAAVT									
		IQK.L	3	2703.8	2436.5	2663.4	2432.5	3224.1	2943.5	3125.7	2720.4
		R.SIAEQGHLPAEVLDAAAVT									
		IQK.L	4	85.6	74.2	47.1	37.6	124.1	108.8	43.4	45.0
		R.TPDDQILALDGK.V	2	202.3	218.5	201.1	207.2	199.4	189.2	165.6	166.6
MSMEG	MSMEG	R.GKLDEELGDLVEAVLER.T	3	4.0	4.2	0.1	0.0	8.2	9.5	0.2	0.1
_5534	5512										
MSMEG	MSMEG	K.GEVAYGAEFFR.W	2	96.2	64.2	66.5	56.1	61.8	54.3	51.8	50.0
_5538	5516	K.GLPSSSTLGPLINSK.Q	2	306.2	319.5	202.2	233.0	161.0	162.3	203.3	238.2
		R.EGGIEGIEEYLDTK.Y	2	150.3	133.8	54.4	46.3	105.6	91.3	90.5	73.2
		R.GVISDPAAPFGGIK.E	2	258.1	253.2	129.5	102.0	234.9	147.2	196.9	126.8
		R.IEDLISSVPTGLWIGGEER.									
		E	2	212.6	213.8	123.5	131.4	143.8	162.3	88.7	130.4

		R.VAETIQSGMVGINR.G	2	103.9	82.2	99.1	70.1	144.0	88.4	63.5	55.3
MSMEG	MSMEG	K.LVVDGQDVVADVHDVLDR									
_5541	5517	.M	3	487.6	470.5	342.4	333.6	433.8	362.9	343.3	311.8
		K.TFSTLETLTNATAAR.R	2	603.4	582.3	426.5	416.2	392.1	369.3	444.8	389.0
		R.FVSNVDPADLVAK.L	2	600.1	605.9	350.0	364.6	540.5	498.0	540.2	471.6
		R.HYADAGISAR.F	2	10.4	4.4	5.7	2.2	2.9	2.7	1.6	1.8
		R.TL DLLVDLAR.A	2	102.6	92.3	36.7	44.5	69.5	54.0	27.9	29.0
MSMEG	MSMEG										
_5553	5530	K.IYATDVDEDALTEAR.A	2	60.8	55.7	153.4	138.6	71.0	74.1	110.1	115.2
MSMEG	MSMEG										
5534	5534	K.GVTDVIVGFR.I	2	38.6	40.0	46.4	49.3	28.9	26.7	34.5	32.9
		R.IPYIEGQDTEPLDKK.I	3	73.5	79.9	21.9	23.4	43.5	52.5	10.7	18.2
MSMEG	MSMEG										
_5592	5572	R.EEFEAAELPFPSAR.E	2	46.6	60.2	113.8	139.9	55.0	60.2	145.3	160.6
		R.FLGHLTDEQLLR.H	2	23.2	36.0	58.5	73.7	9.7	27.6	52.8	66.1
		R.FLGHLTDEQLLR.H	3	3.4	4.0	27.7	24.4	4.2	4.9	31.0	35.5
MSMEG	MSMEG	R.DLDGNLVGSSSYLNVDGT									
_5612	5590	NR.R	2	6.0	9.0	45.8	53.3	6.4	13.3	24.5	39.5
		R.RLEIGHTWYTAAR.G	3	132.1	122.2	38.6	41.1	214.5	213.5	34.7	48.6
MSMEG	MSMEG	R.SELTVNQTSLPAGYSGPR									
_5615	5592	.S	2	34.2	44.1	58.4	67.9	25.4	33.1	46.4	51.5
MSMEG	MSMEG										
_5634	5613	R.YHEWLSIHR.A	3	23.6	15.5	20.6	13.0	18.2	19.0	10.6	12.9
MSMEG	MSMEG										
_5639	5618	K.LDAETALQTGMANR.I	2	268.4	255.3	184.0	170.3	216.4	203.1	163.1	168.1
		K.LDAETALQTGMANR.I	3	17.8	20.8	7.8	5.6	16.1	15.9	4.5	3.6
		K.WAAEIAGFAPLALQHAK.R	2	65.8	53.4	126.5	127.2	48.9	53.8	71.0	86.6
		K.WAAEIAGFAPLALQHAK.R	3	101.4	97.1	87.3	84.8	76.6	76.0	57.6	63.9
		K.YGLALDNWSIR.R	2	148.3	145.8	90.1	92.3	127.9	119.4	73.3	74.3
		R.DGNVLTLERLQRPER.R	2	132.5	119.9	61.2	54.3	118.0	109.5	93.2	91.8
		R.NALNC#ELVDSL.R.E	2	215.2	226.5	115.2	116.2	198.0	197.2	112.5	104.2
		R.NALNC*ELVDSL.R.E	2	208.0	199.1	112.2	102.4	183.2	188.2	102.4	98.5
		R.VLNDDGAYEEPWPAHK.E	2	45.6	45.2	20.7	11.5	37.4	45.2	7.9	14.9

		R.VLNDDGAYEEPWPAHK.E	3	128.8	134.0	75.9	80.0	90.6	105.1	55.3	68.0
		R.VVVPEAYFQFPVAK.Y	2	609.4	649.6	559.9	568.7	549.4	545.0	508.7	501.4
		R.VVVPEAYFQFPVAK.Y	3	38.4	38.9	22.6	20.5	19.6	26.8	48.9	34.1
MSMEG	MSMEG	K.AYVALAEGWEPNADTAK.									
_5650	5630	A	2	2.0	3.1	22.2	38.4	4.8	5.7	5.4	10.4
MSMEG	MSMEG	K.REFDLLAVLAEHKTAVLSR									
_5662	5641	.A	4	5.2	3.7	0.9	0.6	0.2	0.2	0.7	0.7
		R.EFDLLAVLAEHKT	2	70.6	81.3	31.8	30.1	67.7	72.9	26.3	24.8
		R.LSGFDVSTAVDGAELR.									
		S	2	80.5	83.0	134.0	139.5	74.6	73.6	135.1	124.7
		R.VAGLEAGADDYLVKPFVL									
		AELVAR.V	3	50.7	49.1	207.3	192.2	61.3	68.7	288.8	294.6
		R.VLVVDDDPDVLASLER.G	2	236.7	266.5	321.1	345.5	229.2	254.9	312.2	317.3
MSMEG	MSMEG										
_5664	5643	R.GESIEFPLR.G	2	70.4	60.2	13.8	12.6	47.6	49.4	10.0	11.4
		R.GLIQGWQDGIPGM*R.V	2	143.6	115.8	119.6	104.9	112.8	122.1	131.0	124.8
		R.GLIQGWQDGIPGMR.V	2	98.7	115.8	96.0	104.9	90.6	97.9	113.1	105.1
		R.KLIIPPEQAYGPAGGGHR.									
		L	3	7.5	8.2	22.4	16.2	6.7	6.1	25.7	30.4
		R.KLIIPPEQAYGPAGGGHR.									
		L	4	12.3	0.0	0.3	0.0	8.6	10.3	0.4	0.3
MSMEG	MSMEG	K.KSEGQPFLYPDNSLSLVE									
_5672	5650	NFLR.M	3	118.5	123.6	100.6	101.0	148.3	126.6	198.5	165.8
		K.LGGDDELLIAK.Q	2	812.2	601.5	616.1	499.1	817.3	729.0	866.8	794.1
		K.LPTIAAYAYK.K	2	70.6	54.9	57.1	45.8	133.3	135.6	113.1	118.7
		K.LYPNVDYYTGVYR.A	2	891.1	878.3	962.1	974.5	573.8	560.4	726.9	762.0
		K.SAITYIDGDAGILR.Y	2	1101.3	1095.5	1329.6	1354.8	970.1	836.1	1479.3	1233.7
		K.SAITYIDGDAGILR.Y	3	41.1	40.0	5.0	1.0	36.6	40.3	15.7	7.0
		K.SEGQPFLYPDNSLSLVEN									
		FLR.M	2	764.8	878.1	715.6	786.7	471.5	550.7	593.4	684.3
		K.SEGQPFLYPDNSLSLVEN									
		FLR.M	3	498.9	563.1	507.1	575.9	300.1	397.7	376.3	519.3
		K.TGYTTYDGGFVNTASTK.									
		S	2	586.8	491.9	354.7	299.5	476.4	476.7	365.9	341.8

		K.YPGGELDLEIVHATEGAD									
		GIALGSLLAK.T	3	2241.5	2336.6	1359.6	1306.0	1015.1	1099.0	1204.8	1276.0
		R.KLYPNVDYYTGVYR.A	2	103.7	122.5	193.8	228.3	121.0	138.2	218.4	246.9
		R.KLYPNVDYYTGVYR.A	3	48.5	42.2	81.6	86.2	68.1	72.7	130.0	139.1
		R.LPGWIAHWR.E	2	75.4	53.4	52.1	50.3	38.0	43.6	26.1	43.5
		R.M#TGFPAEPYEVDP	IV								
		R.A	2	333.3	374.5	233.5	265.2	141.0	140.2	106.1	118.3
		R.MTGFPAEPYEVDP	I								
		A	2	823.0	847.1	798.4	826.5	571.1	530.9	690.9	708.9
MSMEG	MSMEG										
_5675	5653	K.SVDPDGITFYTNYDSAK.G	2	93.7	103.3	18.5	26.6	95.1	77.7	19.4	23.2
		R.IAPEVVEFWQGR.E	2	132.4	150.2	103.5	121.0	91.0	104.0	115.2	121.4
MSMEG	MSMEG										
_5676	5654	K.VTFADVWGLLVGDGR.F	2	47.8	48.3	62.5	62.0	30.7	34.3	50.5	55.5
		R.VIASTGADAAAALSGAVG									
		AMSGPLHGGAPAR.V	3	153.0	138.1	197.0	164.4	53.5	43.9	82.4	70.0
MSMEG	MSMEG										
_5680	5658	K.AFGGTPVTIHLTVTDVDAK									
		.F	2	107.4	95.0	78.7	69.6	78.9	80.3	79.7	66.0
		K.AFGGTPVTIHLTVTDVDAK									
		.F	3	235.2	197.1	273.3	246.0	172.9	201.1	248.7	252.9
		K.AVEAGAEVVM#ELADQF									
		WGDR.Y	2	16.4	0.0	11.7	0.0	6.8	9.5	4.5	9.1
		K.AVEAGAEVVM*ELADQFW									
		GDR.Y	2	16.4	23.9	11.7	20.8	6.8	9.5	4.5	9.1
		R.DPFGHQWSM*GQPVR.E	3	16.0	10.1	8.9	3.1	9.2	14.2	6.4	12.0
		R.DPFGHQWSMGPV.R.E	2	43.6	45.6	24.6	27.2	65.8	50.7	19.6	13.5
		R.DPFGHQWSMGPV.R.E	3	51.6	60.7	47.8	53.3	28.8	30.0	33.0	32.4
		R.EVSPEEIAEAMK.S	2	98.7	92.4	110.9	103.2	64.0	55.6	81.2	73.2
MSMEG	MSMEG										
_5684	5662	K.NFAGDGGLWLAVMSPAA									
		LAR.I	2	163.0	165.7	122.9	131.5	80.8	91.8	112.7	118.0
		K.NPFIDEPIVK.T	2	268.5	206.7	245.9	203.6	209.9	190.6	256.1	270.0
		K.VRPEQLTALAAAGDLFGT									
		SHR.Q	3	434.1	363.5	313.2	216.8	472.8	357.6	335.8	285.1
		K.VRPEQLTALAAAGDLFGT									
		SHR.Q	4	323.3	218.4	194.7	125.0	245.8	235.0	219.4	205.7

		R.WVPDFLSLPIAVENSLK.N	2	394.8	407.0	358.1	356.8	273.9	294.3	310.5	364.9
		R.WVPDFLSLPIAVENSLK.N	3	83.2	93.7	42.2	47.9	51.6	54.8	39.7	36.6
MSMEG	MSMEG	K.TIGPLRPGALTVNLR.R	3	77.7	83.1	129.5	136.5	86.2	89.8	108.4	117.8
_5690	5667	K.TVWAYELEPTETGTR.V	2	130.2	151.3	149.1	165.7	121.5	142.1	132.7	134.1
		R.VWSLISDLR.R	2	41.2	39.8	46.4	52.8	45.7	46.8	42.6	45.0
MSMEG	MSMEG	K.YPVQLSVPSAIGR.A	2	26.8	0.0	98.4	0.0	13.5	15.9	159.6	132.1
MSMEG	MSMEG	K.GFGFLSQEDGEDVYVR.S	2	173.0	181.3	136.9	136.9	188.7	198.1	143.4	139.4
_5694	5670	R.SSALPAGVEALK.S	2	5.2	5.4	72.0	82.9	8.4	11.2	39.8	51.5
MSMEG	MSMEG	K.IGDAALVAAAADHR.R	3	23.6	26.0	28.8	28.9	22.0	22.3	27.9	24.8
_5696	5672	R.AVLDYEVPGGLADAIR.R	2	60.7	68.9	95.6	100.4	28.8	32.0	100.3	100.4
MSMEG	MSMEG	R.TGPLIVEWLAK.R	2	22.4	22.2	14.4	14.4	11.2	11.3	13.1	11.9
_5701	5677	R.TLIVNLPGSPGGVK.D	2	34.0	32.3	20.4	18.8	15.3	15.4	17.6	14.6
MSMEG	MSMEG	R.TAVAAGTLLTRPDVVALIA									
_5702	5678	SGGLPK.G	3	105.3	0.0	89.6	0.0	42.8	72.2	43.7	74.9
MSMEG	MSMEG	R.YPVPQPLLVDIVDTMAR.Y	2	51.2	52.9	39.0	39.1	35.2	34.6	25.3	34.3
MSMEG	MSMEG	K.LANSEASWEGSPGDLLVI									
_5703	5679	K.LANSEASWEGSPGDLLVI									
MSMEG	MSMEG	PR.T	2	118.7	136.5	142.0	166.8	121.6	122.3	149.4	150.3
_5706	5682	K.LANSEASWEGSPGDLLVI									
MSMEG	MSMEG	PR.T	3	47.5	0.0	55.6	0.0	43.0	53.5	58.6	61.0
MSMEG	MSMEG	K.HYQADGAIVSPTPLQEDGI									
_5715	5691	PLWIAGGGEK.V	3	649.8	675.3	837.8	836.3	335.4	328.8	719.0	659.7
		K.YAQYTNFTSEPEAFR.R	2	979.8	1032.5	874.4	857.4	442.2	483.3	645.0	620.7
		R.DLGC*EYAILYFPEAAYDR.									
		S	2	115.2	135.7	112.4	120.7	43.1	56.7	57.6	89.6
		R.FGLFIPQGWR.L	2	121.2	119.4	72.5	56.5	52.0	52.3	29.0	34.6
		R.LDLVDIPTDR.H	2	363.4	280.9	356.6	256.5	229.2	220.4	339.4	348.2
		R.SANFNAVIGESEK.D	2	149.8	132.0	222.5	204.1	66.0	52.8	146.1	120.8
MSMEG	MSMEG	K.AAEATGATYEPHPAEAVV									
_5720	5695	NK.M	3	7.9	6.0	4.1	2.8	5.7	5.1	2.3	2.8

		K.AFMEVLSQGTR.F	2	33.5	24.9	60.9	55.5	39.2	13.1	55.9	46.0
		K.ALEVGLVDQLVSSVDELV									
		PAAK.A	2	210.3	206.0	96.6	90.0	188.8	264.5	86.3	107.5
		K.ALEVGLVDQLVSSVDELV									
		PAAK.A	3	94.9	121.8	44.3	53.0	91.9	118.2	30.8	49.3
		K.ANPETVAVQPWDR.K	2	88.7	60.3	14.2	6.3	93.7	46.7	20.9	8.3
		K.GVIGLPEVTGLLPGGG									
		GVAR.T	2	215.6	211.5	97.1	89.5	286.5	286.5	117.7	109.9
		K.GVIGLPEVTGLLPGGG									
		GVAR.T	3	32.0	41.3	2.0	7.6	53.1	47.9	9.8	9.1
		K.MPGGTPSSPALASILPSFP									
		ALLR.K	3	60.7	86.2	46.4	57.1	72.4	106.1	82.1	67.0
		K.MPLVEIIK.G	2	60.5	51.7	32.5	26.1	114.3	63.2	36.6	19.0
		K.RQEDFIGIHFSPVDK.M	3	46.7	47.6	18.8	15.8	57.8	71.6	11.6	17.4
		K.VDIPLQDMIDR.M	2	133.6	122.5	50.1	52.0	171.1	125.2	55.5	41.4
		K.VGPENAAESFAEVEFIK.A	2	323.5	295.9	120.9	117.0	457.1	365.3	159.8	132.2
		K.VGPENAAESFAEVEFIK.A	3	19.9	24.4	1.6	2.1	30.5	29.1	3.3	2.2
		R.AGFEVVLK.D	2	7.5	7.1	1.1	0.0	16.8	11.6	0.8	0.3
		R.KAAEATGATYEPHPAEAV									
		VNK.M	3	3.2	3.0	0.8	0.6	3.6	3.7	0.9	2.2
		R.LAAEKDSITGVVITSAK.K	2	9.4	6.8	1.1	1.2	39.9	36.5	3.5	6.4
		R.LAAEKDSITGVVITSAK.K	3	26.3	27.5	6.9	5.4	74.3	65.8	10.5	11.2
		R.MLFAEALETQK.C	2	111.9	103.1	45.5	48.3	190.6	156.6	76.4	61.9
		R.VFDYTLAIGK.T	2	170.2	168.6	62.2	52.0	229.6	199.6	62.7	57.9
		R.YFVSLVTGQTAK.N	2	301.6	261.0	168.7	153.3	419.6	273.8	205.0	143.8
MSMEG	MSMEG	R.GGALNEIKPVNLVVGGLIDE									
_5721	5696	LR.V	3	232.1	246.4	120.8	128.4	230.9	206.4	105.8	105.7
		R.IGFVPQGIGADLIATIEGFS									
		R.E	3	17.4	21.8	4.5	4.5	21.2	24.9	5.5	6.8
		R.TATLVANLPETTGGVQLN									
		R.F	2	184.5	205.8	65.3	85.2	182.9	191.5	64.3	84.8
MSMEG	MSMEG	K.ALILNSPHNPTGAVASDAE									
_5725	5700	LR.A	3	316.8	324.3	218.1	254.7	198.7	189.8	276.2	317.3
		R.GFAIDVDALR.A	2	14.2	14.7	1.9	2.8	0.8	6.4	0.0	1.6

MSMEG	MSMEG											
_5727	5702	R.FLVDVADVSEVR.L	2	51.6	48.0	98.6	98.2	36.1	36.4	89.7	73.2	
MSMEG	MSMEG	R.VTAMVPVVLSDDAETAR.										
_5732	5707	R	2	45.9	53.2	59.3	76.5	21.2	29.1	47.9	59.8	
MSMEG	MSMEG											
_5733	5708	K.LGAPLHILHALPTLGR.N	3	54.7	53.3	3.6	2.4	18.3	17.7	0.9	1.5	
		K.LGAPLHILHALPTLGR.N	4	70.4	70.1	0.4	0.5	35.7	31.2	1.2	0.5	
MSMEG	MSMEG	R.RPGGLTLPAENVDLLHR.										
_5734	5709	G	3	91.4	74.7	77.3	47.4	54.6	43.9	32.7	32.4	
		R.STLIDVDGVAQAAPAPR.F	2	272.3	260.1	166.7	201.7	151.3	155.7	117.0	167.9	
MSMEG	MSMEG											
_5739	5713	R.FDTLYAQVWSR.V	2	30.2	24.9	20.9	19.3	17.6	12.9	13.6	12.7	
		R.FLTLQWLER.L	2	16.6	14.2	28.1	23.1	1.7	2.0	20.8	15.9	
		R.LAPILAEVEPR.I	2	27.6	25.7	0.3	0.6	0.3	0.1	0.2	0.0	
		R.RFETALTALPEKR.R	3	4.3	4.9	0.1	0.3	0.0	0.0	0.0	0.0	
		R.RPSFTTVHGADATEIR.A	3	15.4	12.5	0.2	0.2	1.7	6.2	0.2	0.2	
		R.VVAGDIGDPNLGLTPEIW										
		HR.L	3	60.9	59.0	3.0	3.7	1.3	3.8	4.2	5.8	
MSMEG	MSMEG											
_5773	5743	K.NYYALGGQDWDPESQSK.L	2	206.6	219.8	2.4	4.5	149.7	144.5	1.9	1.8	
MSMEG	MSMEG	R.ATQSLLQADLVLAEQVISD										
_5776	5747	HEK.M	3	145.2	135.8	192.5	177.1	118.2	100.9	192.8	154.0	
		R.TVVSQIQIADVDR.M	2	50.7	51.4	60.6	71.0	28.2	26.6	45.3	60.1	
		R.VIFQVTGNYPDGDKVTTQ										
		Q	2	99.8	139.1	117.7	155.7	49.3	70.1	137.1	184.7	
MSMEG	MSMEG											
_5784	5755	K.LGPEYEALIGTVR.N	2	56.2	62.7	187.1	200.9	80.5	83.9	208.3	219.3	
		R.AQLLQEVGWYDFFGGTR.										
		T	2	20.8	23.3	56.0	64.9	17.6	21.7	35.9	51.5	
MSMEG	MSMEG	K.ILAPAHLPEQSQRPGHIP										
_5789	5759	GAINVPWSK.A	4	2602.6	2734.6	1393.7	1448.8	2671.8	2822.8	1472.4	1501.6	
		K.LYAEAGLDGEK.E	2	24.5	19.4	8.3	5.9	17.3	11.3	2.4	2.0	
		K.LYAEAGLDGEKETIAYC#R										
		.I	2	160.3	148.0	32.2	38.1	174.2	157.6	37.0	40.4	
		K.LYAEAGLDGEKETIAYC#R										
		.I	3	827.7	852.1	328.2	364.2	882.5	919.7	290.1	355.3	

		K.LPSVQVGDPFMEK.V	2	124.3	133.6	142.0	140.7	98.7	94.6	165.5	171.8
		K.VESHNHPSYVEPYQGAAT									
		GVGGIVR.D	3	305.0	305.6	195.2	200.5	186.7	263.9	154.2	213.6
		K.VESHNHPSYVEPYQGAAT									
		GVGGIVR.D	4	337.9	346.3	196.2	201.9	222.5	272.8	169.1	193.9
		R.AANMTPAEVLSSESQER.									
		M	2	273.1	279.0	156.0	147.6	186.2	208.9	124.2	176.7
		R.AANMTPAEVLSSESQER.									
		M	3	47.7	47.3	6.4	16.4	37.4	30.8	3.0	11.7
		R.DGLISAAHDLAEGGLIQAV									
		VESALAGETGC#R.V	3	71.5	94.2	39.6	49.5	33.3	77.4	27.6	61.6
		R.GIAVSTDASGR.Y	2	0.7	0.3	0.3	0.1	0.2	0.4	0.1	0.2
		R.TVAHEGPVYERPVERPEC									
		#QDALIADTSAK.L	4	331.2	353.5	353.7	378.7	217.7	354.0	264.7	436.4
		R.VIIPEGADPFVFLFSESSG									
		R.V	2	342.7	419.8	229.1	275.1	223.3	331.8	210.4	307.7
		R.VIIPEGADPFVFLFSESSG									
		R.V	3	168.3	213.6	69.0	110.7	195.2	174.9	68.2	107.9
		R.YTQLDPYTGAQLALAEAY									
		R.N	2	306.4	288.3	166.1	160.9	268.4	244.9	201.0	163.4
		R.YTQLDPYTGAQLALAEAY									
		R.N	3	72.6	103.6	44.5	63.9	69.4	51.1	52.0	39.6
MSMEG	MSMEG	R.EIPDVIAQALSELRL.L	2	112.0	114.4	188.5	186.7	156.6	140.3	221.0	206.8
_5830	5795	R.EIPDVIAQALSELRL.L	3	12.2	9.9	7.8	7.2	15.9	17.2	6.1	8.4
		RLAGVDGPYSVLLSAETYT									
		K.V	2	172.5	172.7	247.9	244.1	225.8	225.3	300.1	295.3
		R.VVDVSGPNCPTTASVSTG									
MSMEG	MSMEG	HLLDVSPPGDGVIAHLR.D	4	295.8	321.9	449.8	440.3	352.2	365.3	435.6	453.2
_5831	5796	K.FAPVMGSVVEAANK.G	2	356.0	392.8	220.3	254.6	292.8	269.5	259.9	260.0
		R.VGVITFPGTLDIDAR.A	2	99.2	106.1	41.8	47.2	86.8	101.7	48.5	52.5
		R.YETGADLLIPLK.S	2	235.4	232.8	185.8	185.2	168.9	163.1	179.7	160.1
		R.YVASESVLDELEGEDR.V	2	345.4	369.0	177.3	171.7	245.2	259.2	160.7	168.7

MSMEG	MSMEG											
_5832	5797	K.AEILDPPQQQAIVGALGR.L	2	136.9	179.8	233.6	303.6	94.0	107.7	228.0	250.6	
MSMEG	MSMEG											
_5834	5800	R.AAVPIHQGIIAPDAR.G	3	21.5	16.1	22.5	17.7	9.9	14.6	16.2	19.4	
MSMEG	MSMEG											
_5835	5801	R.VPDQLISGVPAHVDGR.M	3	16.3	13.0	5.3	7.8	54.9	53.1	20.5	25.1	
MSMEG	MSMEG											
_5837	5803	K.FLLAADGTVVNR.F	2	203.1	230.1	208.1	238.1	116.9	126.5	163.0	163.1	
		R.HPLYAALTETPDAGGEAG										
		DIQWNFEK.F	3	236.0	269.6	130.6	143.9	126.8	140.1	98.3	105.0	
MSMEG	MSMEG											
_5839	5806	K.KNTFTDFIAVAR.H	3	5.0	3.2	0.0	0.0	5.8	3.9	1.5	0.9	
		K.NTFTDFIAVAR.H	2	33.4	31.6	17.3	17.3	42.3	30.4	30.4	25.9	
		R.DLVEYSVEHAVVGGEDR.										
		F	2	40.4	48.6	14.0	15.3	35.2	51.0	8.5	21.5	
		R.FLILHNDGAENFTLVADPV										
		SDPNDFR.T	3	146.9	151.0	131.5	147.9	116.4	137.6	93.7	142.0	
		R.YGDATDPQAEFTSVWGR.										
		R	2	205.0	206.7	95.4	101.1	208.0	190.4	100.1	108.4	
MSMEG	MSMEG											
_5841	5807	-MRPALSQYQHLASGK.V	3	9.4	9.9	8.2	4.4	6.4	9.8	6.0	6.2	
		K.VIELVGAELANQLR.D	2	121.9	137.0	103.0	101.1	115.6	129.1	87.8	86.5	
		K.VIELVGAELANQLR.D	3	16.5	16.6	7.6	9.4	13.6	14.3	2.9	3.2	
		R.ALVVRRLLDM#LPVECVAR.										
		G	2	0.1	0.0	126.4	132.0	0.0	0.2	163.1	158.1	
		R.DGTVVLADEVFTPDSR.										
		Y	2	84.4	97.0	60.6	84.3	78.9	83.3	39.8	51.6	
		R.IDDEHLLFVASDR.I	3	54.5	55.3	43.5	39.8	43.1	39.8	34.2	38.8	
		R.ISAYDYILDSQIPDK.G	2	156.2	163.0	213.4	229.2	114.1	119.3	147.2	155.8	
MSMEG	MSMEG											
_5847	5813	K.ARIEEEFNALAGHEHVHK.G	2	12.6	10.6	202.8	188.9	5.8	13.1	195.1	198.5	
		R.DLTENVEQLQIR.Q	2	202.1	189.3	626.8	672.1	193.1	205.7	981.4	819.5	
		R.FASAAEETLVALTR.L	2	263.6	223.9	77.3	79.6	142.5	125.3	127.6	99.5	
		R.VLENVDLESIAAR.E	2	171.4	156.8	305.1	305.9	203.2	190.0	319.5	462.9	
MSMEG	MSMEG	R.FGDPETQAVLALLESPLG										
_5852	5818	QLLR.A	2	11.3	16.9	6.1	13.0	1.6	3.8	1.2	4.3	

		R.FGDPETQAVLALLESPLG								
		QLLR.A	3	54.5	57.0	23.1	29.9	0.0	30.7	0.0
		R.FGPPAGQAAWVVK.D	2	303.3	176.2	261.7	127.8	213.5	226.4	276.6
		R.IGADLVVIGPEVPLVLGVA								274.2
		DAVR.E	3	79.1	69.2	76.0	82.0	43.6	54.0	75.7
		R.TATSEVVDNPGHLDAA LD								85.1
		R.F	2	172.5	146.7	113.3	77.9	129.7	151.4	97.8
		R.TATSEVVDNPGHLDAA LD								107.6
		R.F	3	424.6	425.2	295.3	254.2	411.4	396.7	430.2
		R.VGDPIHGADADGVLHAGT								429.0
		AR.R	3	55.2	46.3	31.0	33.4	37.2	44.3	43.4
		R.VGDPIHGADADGVLHAGT								42.4
		AR.R	4	107.1	83.3	62.4	52.0	81.9	82.8	88.2
		R.VLSVVTGADLSAAR.E	2	230.2	145.5	280.0	276.2	214.1	182.8	309.2
MSMEG	MSMEG									309.6
_5871	5835	R.AELDNWQDIEPAVFAR.V	2	287.1	311.4	276.6	288.3	332.3	351.6	315.7
		R.AELDNWQDIEPAVFAR.V	3	17.4	8.7	11.3	6.7	20.3	22.2	11.5
		R.NLSDFGFANVDR.N	2	133.8	134.2	115.0	117.2	176.8	141.2	144.7
		R.NLSDFGFANVDRNPSPES								110.0
		LDEAQAK.I	3	47.1	56.9	32.3	36.3	122.8	135.8	99.4
		R.SGLIIAGLEVPHLHVHF P								102.5
		AR.N	3	26.7	37.4	49.2	51.3	28.4	30.5	75.8
		R.SGLIIAGLEVPHLHVHF P								70.5
		AR.N	4	45.9	44.9	27.0	28.9	52.1	51.7	33.5
		R.VMEVSQQLIGK.A	2	76.9	70.3	92.8	89.8	71.6	75.6	80.0
MSMEG	MSMEG									78.7
_5872	5837	K.AGEPVSLSPTEFTLLR.Y	2	389.0	377.4	164.1	168.7	171.4	167.5	133.4
		R.EVRPDAVIDVMMPGMD								143.6
		GFGLLR.R	3	16.6	17.2	2.4	3.2	2.6	4.2	1.9
MSMEG	MSMEG	R.LLAEGGLLDLTLDPDGPLL								2.4
_5873	5838	K.L	2	39.6	34.0	34.0	36.1	22.4	28.5	29.1
MSMEG	MSMEG									34.3
_5884	5848	K.VAALAEQGATAAESVR.D	2	46.4	36.6	47.4	38.8	25.0	25.6	34.1
		R.TFVVGDEPSAASLVK.I	2	190.5	181.0	170.6	180.9	159.1	158.1	135.0
		R.VPLPGSLLR.D	2	21.4	22.3	28.5	28.0	6.7	7.1	8.0

MSMEG		MSMEG											
_5892	5854	K.VGAFPSIDS AELDGK.A R.SPGGLVTALEPLLR.K		2	60.2 30.1	69.4 28.9	77.4 61.3	98.2 54.0	78.3 25.4	80.0 22.4	129.9 27.3	123.1 33.6	
MSMEG	MSMEG												
_5893	5856	R.VFGYDYQTVER.S		2	68.6	82.5	23.4	21.2	70.3	73.4	16.6	15.5	
MSMEG	MSMEG												
_5925	5884	K.GFLQDVEIWK.H		2	35.5	31.6	4.7	2.6	20.5	32.5	5.0	5.2	
MSMEG	MSMEG	R.NAGLGPTVIVSPLLALMR.											
_5935	5893	N		2	21.1	21.4	29.4	30.1	23.9	28.2	28.5	35.1	
MSMEG	MSMEG												
_5937	5895	K.IAFLMLPGVGTK.E R.FGAGAGNAPVEALIGVFD K.I		2	34.3 366.1	31.2	13.2	13.1	21.8	20.2	6.0	6.7	
MSMEG	MSMEG												
_5939	5896	K.AIIVLNPAEPPMIMR.D K.LGLETS AEGVDWLLAQSE KPDLVFEAT SAYVHR.D R.AIDLTPAAVGPGVVPPANL R.D		2 4 2	62.0 44.7 72.2	67.0 52.6 68.4	60.3 26.2 21.2	63.9 29.1 25.5	85.5 22.3 96.4	87.1 34.1 106.0	52.3 9.7 34.4	62.0 14.3 43.5	
MSMEG	MSMEG	R.AIDAPAGSDFVADFAGLG SVHLR.F R.SDAVLGNPVTAVAWLAR. K		3 2	39.4 119.1	37.4 128.8	45.1 250.1	36.4 276.1	85.8 214.9	67.8 198.7	66.0 278.1	40.4 300.2	
MSMEG	MSMEG												
_5943	5899	K.AAVIVSETTVTDPSGK.V K.AIVDNLLDGDSR.V K.VLHASEAVSVPGPPI TSGT AK.S		2 2 3	30.7 63.6 125.8	25.0 66.0 153.2	21.0 139.5 219.5	11.2 129.6 248.3	39.1 112.8 196.2	34.5 109.9 246.7	7.4 178.1 189.0	21.3 127.2 233.1	
MSMEG	MSMEG												
_6008	5965	K.LFATMLNTLER.T R.NAWLAAGYPEEVPGVTV DR.Q		2 2	13.1 110.6	20.8 140.9	43.2 104.3	50.9 93.1	11.4 85.1	13.3 113.4	13.0 162.0	22.5 164.0	
MSMEG	MSMEG												
_6024	5983	K.GIMHGHHGGVLIEHLK.A R.HVPDEIIAAPGVPHTR.T R.LGQLEPTVLVTADGYHFA GK.T		3 3 3	18.4 38.3 51.6	23.1 28.2 55.1	10.5 27.7 33.5	12.7 19.6 37.5	27.0 19.0 25.4	31.2 16.0 32.8	11.2 15.7 16.0	18.7 16.1 35.5	

MSMEG	MSMEG											
_6073	6035	R.VTESVQIAADR.G	2	19.1	16.1	13.9	12.1	9.8	9.0	7.6	8.2	
MSMEG	MSMEG	R.GEGLAAIATALVAAEPVG										
_6075	6037	DAK	2	5.8	0.0	21.4	0.0	5.4	4.4	12.0	15.9	
MSMEG	MSMEG											
_6076	6038	K.ITTPLDLVLAEAVLAR.G	2	32.8	32.2	80.8	75.2	28.5	28.0	89.7	112.5	
		K.ITTPLDLVLAEAVLAR.G	3	8.0	7.0	13.8	12.3	6.2	6.1	11.7	12.5	
MSMEG	MSMEG											
_6077	6039	K.AETILDEVLAAAS	2	30.6	26.1	1.9	1.7	18.5	20.7	0.5	0.2	
MSMEG	MSMEG											
_6082	6044	K.ATLSALDEGEVPSGFVR.D	2	42.9	54.6	235.7	263.5	85.5	85.8	252.1	225.6	
		K.VPLIVVLGHDESC*GAVK.A	3	149.4	147.2	30.5	34.0	174.0	166.1	26.0	35.4	
		R.STAIAQGLAAGTQAIVGTT										
		YHLADGR.V	3	71.0	80.1	232.3	258.5	123.5	126.0	257.8	238.8	
		R.TAGHVIDNAVLGSIEYAVT										
		VLK.V	3	28.4	25.4	113.9	103.1	36.0	39.5	78.8	74.7	
MSMEG	MSMEG											
_6086	6049	K.INAIEVPPNAGPELEK.R	2	216.7	237.9	238.7	258.7	167.5	166.0	282.7	252.0	
		K.INAIEVPPNAGPELEKR.F	3	38.2	44.9	34.3	40.5	61.2	62.3	90.6	87.0	
		R.AHAVDNQPGFLGFQLLR.										
		P	3	33.1	32.5	22.5	20.8	19.5	18.0	15.4	19.6	
		R.AHAVDNQPGFLGFQLLRP										
		VK.G	3	212.7	282.4	159.9	209.1	243.6	214.9	260.2	247.6	
MSMEG	MSMEG											
_6091	6054	K.AHQEIYNSSLQVLEDGR.L	2	54.4	67.2	212.9	232.5	58.9	72.6	246.1	335.7	
		K.AHQEIYNSSLQVLEDGR.L	3	105.3	116.2	142.7	164.3	112.6	128.7	172.2	202.3	
		K.AVGLGFSQGGSENNYER.										
		M	2	146.9	101.0	151.7	103.0	133.4	118.3	132.2	111.8	
		K.HFRPEFLNR.I	3	122.1	45.8	144.8	47.6	99.2	31.9	125.0	35.0	
		K.NTVLIFTSNLGTSDISK.A	2	174.4	167.6	277.7	262.0	223.3	186.1	368.5	286.7	
		K.RAETAEPDLAGAGAAGAP										
		TAGTE	2	61.3	37.0	98.2	62.7	54.3	33.3	93.4	58.8	
		K.RPSGSFIFAGPSGVGK.T	2	196.1	179.8	251.3	230.4	178.7	161.3	275.2	264.4	

		K.RPSGSFIFAGPSGVGK.T	3	158.9	119.3	164.7	119.0	184.8	134.8	203.7	141.6
		K.SLESLGISLEGVR.S	2	167.5	165.1	261.4	265.2	216.9	177.8	359.6	351.3
		K.TAVVEGLAQAIVHGEVPE									
		TLK.D	3	226.8	202.2	453.9	409.4	195.9	154.0	552.9	495.9
		K.TAVVEGLAQAIVHGEVPE									
		TLKDK.Q	3	89.5	96.1	123.9	122.5	184.5	161.1	236.1	220.0
		K.TAVVEGLAQAIVHGEVPE									
		TLKDK.Q	4	40.5	37.9	52.7	42.1	90.9	82.1	133.0	116.9
		R.EALQLGHNYIGTEHILLGLI									
		R.E	3	67.6	68.5	120.9	136.7	97.6	86.1	157.1	148.2
		R.GELQTIGATTLDYR.K	2	126.8	130.1	221.0	184.6	96.4	119.8	245.6	196.8
		R.GELQTIGATTLDYRK.Y	2	240.1	183.7	240.5	227.1	416.1	265.6	390.3	359.5
		R.GELQTIGATTLDYRK.Y	3	134.1	121.7	196.2	167.5	187.4	169.9	299.4	266.6
		R.GGESGNPSTSLVLDQFG									
		R.N	2	308.0	288.5	406.7	378.4	286.4	296.5	451.9	436.1
		R.LFGAPPGYVGYEEGGQL									
		TEK.V	2	191.4	182.2	237.6	235.6	212.2	214.8	346.0	311.2
		R.M*LHNHYIGTEHILLGLIHE									
		GEGVAAK.S	4	49.4	56.3	67.2	96.4	24.9	21.2	49.4	80.3
		R.MLNHNYIGTEHILLGLIHE									
		GEGVAAK.S	4	49.4	86.3	67.2	96.4	26.4	133.5	49.4	153.4
		R.RKPFSSVVLFDEIEK.A	3	0.6	1.5	15.0	14.8	9.3	18.7	20.8	31.2
		R.RVVVLAQEEAR.M	3	3.0	1.7	2.2	1.4	3.3	4.1	2.7	4.3
		R.SQVEEIIQGQQAPSGHI									
		PFTPR.A	3	633.3	664.3	1064.5	1050.7	603.2	714.5	1063.6	1261.0
		R.VSITDSAMVAAATLADR.Y	2	152.5	160.8	205.5	242.9	185.3	162.5	339.1	252.5
		R.VVVLAQEEAR.M	2	2.1	1.3	1.9	1.4	1.2	2.4	1.2	2.6
MSMEG	MSMEG										
_6092	6056	R.GRIPADVIDAFHAAT	2	34.9	42.7	25.0	31.8	53.0	52.2	46.8	54.3
		R.GRIPADVIDAFHAAT	3	63.3	56.7	12.5	11.7	106.6	102.6	38.0	35.2
		R.IPADVIDAFHAAT	2	457.0	349.3	221.7	233.2	342.3	374.5	239.3	226.0
MSMEG	MSMEG	R.AHPDLAADTATGQIVGVS									
_6094	6057	GR.V	2	42.4	53.7	37.7	41.7	10.2	22.8	13.6	29.8
		R.AHPDLAADTATGQIVGVS									
		GR.V	3	220.0	230.3	269.6	281.5	87.2	103.6	158.2	225.6

		R.DFPVETTPLTR.A	2	69.2	54.9	102.0	91.5	18.4	18.3	62.7	63.8
		R.ELIQEVADEAIGTR.Q	2	47.6	35.9	29.7	24.1	60.0	58.1	52.1	45.2
		R.GFLEVETPMLQTLAGGAA									
		AR.P	2	52.9	57.6	66.9	58.3	9.9	23.0	23.8	29.7
MSMEG	MSMEG	K.GEFLGGAIAPGVQVSSDA									
_6096	6059	AAAR.S	2	75.4	75.1	41.3	49.5	103.2	93.0	42.8	57.5
MSMEG	MSMEG	K.FSAGELNVYSAPADVAAV									
_6097	6060	TR.A	2	868.3	866.9	1192.1	1122.8	2767.7	2758.3	1440.6	1443.0
		R.AVLDEVPALEVSYLQVR.D	2	121.5	137.8	195.3	185.5	120.3	117.5	194.6	173.1
MSMEG	MSMEG	K.YPTGYGVTLFNALQDK.G	2	98.7	94.7	38.1	42.5	126.4	97.5	58.6	66.6
_6105	6068	R.AAEELVFREPTTGAVSDIE									
		QATK.I	3	36.0	35.2	52.5	46.6	74.9	94.1	62.2	53.6
		R.AELEAIFGDVK.K	2	57.4	62.2	68.3	67.0	39.9	38.3	72.1	57.3
		R.DVLDILAGEELLEK.E	2	184.7	188.3	24.1	28.9	287.7	253.9	32.4	29.6
		R.GYKPVDTTVALAQIR.G	2	18.7	25.6	213.7	214.7	31.8	35.0	89.8	114.9
MSMEG	MSMEG	K.GAVMFVTDLAR.S	2	6.9	6.9	1.9	2.6	3.7	5.8	1.0	1.4
_6110	6073	R.DLPFIGLLDPK.V	2	14.6	15.9	25.6	25.6	17.4	18.4	19.0	18.2
		R.DNLGDDDLLVTVLK.G	2	7.3	9.0	67.8	67.9	4.3	10.4	22.0	39.6
MSMEG	MSMEG	K.LLC#VPAGDPR.W	2	5.6	6.3	5.0	5.9	4.6	5.7	3.4	3.3
_6114	6077	K.M#TDEAGGDDKLLC*VPA									
		GDPR.W	3	40.9	49.7	39.2	48.5	54.9	56.7	44.0	51.3
		K.M*TDEAGGDDKLLC#VPA									
		GDPR.W	3	43.1	0.0	40.8	0.0	57.6	59.8	45.4	53.3
		K.MTDEAGGDDKLLC*VPAG									
		DPR.W	3	21.8	0.0	18.1	0.0	40.3	41.5	27.0	31.8
		R.AEAEELQRS	2	0.6	0.3	0.2	0.1	0.6	0.3	0.2	0.0
		R.WDHIQDVGDISQFELDAIK									
		.H	3	302.3	289.8	307.6	277.2	267.2	304.2	278.6	292.7
MSMEG	MSMEG	R.LVVVADGPATSR.P	2	1.0	1.2	7.0	7.5	0.8	0.9	8.8	7.5
_6127	6090	R.LVVVADGPATSRPLK.L	3	6.9	0.0	5.3	0.0	11.5	15.7	11.2	15.1
MSMEG	MSMEG	R.AIDILLVEDDPGDELITR.E	2	16.4	18.1	29.7	36.5	35.6	39.4	30.4	31.4

MSMEG		MSMEG									
_6142	6105	R.AENLHSAENSDFKFEFVK.A	3	75.8	57.5	46.4	37.5	44.8	46.8	6.3	17.0
		R.DYVFVDDVVDAFVR.A	2	90.8	62.1	44.7	35.9	57.0	52.9	24.7	25.6
		R.ELHTAIAGAVGAPDEPEF									
		HPPR.L	3	109.1	98.4	20.5	29.3	55.3	52.2	10.0	11.9
		R.EVLGWQPQVALAEGIAK.									
		T	2	315.4	307.9	277.2	284.8	204.3	208.6	261.9	259.2
		R.FNVGTGVETSTR.E	2	4.8	3.5	0.8	0.7	4.1	2.6	0.2	0.3
		R.LLADGHGVVGLDDLSSGR									
		.A	2	42.9	41.3	5.6	11.2	21.9	20.7	2.0	11.3
		R.LLADGHGVVGLDDLSSGR									
		.A	3	120.0	127.0	54.0	65.3	80.6	84.7	30.3	34.6
		R.SVDDPPFDATVNVTGTVR									
		.L	2	158.1	175.3	9.5	10.5	92.3	113.1	7.2	4.7
		R.TLVTGAAGFIGSTLVDR.L	2	201.2	202.0	283.4	273.5	148.6	153.2	275.5	261.9
		R.TLVTGAAGFIGSTLVDR.L	3	43.0	41.3	6.6	7.3	23.6	25.4	1.4	1.4
MSMEG	MSMEG	K.IAGYLGNSNYVVESSR.G	2	66.3	63.3	39.1	44.9	51.7	47.9	27.7	33.0
		K.NAQEAHEAIRPAGDVFQT									
		PGQLHSALDTDEFR.L	4	139.5	148.3	115.0	127.5	156.3	184.3	125.5	147.4
		R.ANLKEDLTPDELTPELAEK									
		.L	3	98.1	97.4	37.9	37.4	30.7	32.0	27.4	33.4
		R.FGPYVTDGETNASLR.K	2	119.2	119.9	156.7	152.1	130.0	129.4	155.0	168.0
		R.GAQLAVTSVEQKPYTR.R	3	4.5	3.7	8.4	7.0	2.7	4.0	2.0	4.3
		R.IGGSASSGEQVVFNASGR									
		.T	2	27.8	28.7	40.0	35.7	27.7	32.4	57.9	84.5
		R.LGVNVDQNFEPLYIVSPE									
		K.K	2	8.9	11.6	13.1	16.0	1.2	3.1	3.8	3.3
		R.LYELIWR.Q.T	2	17.2	17.2	90.1	86.0	26.0	23.1	87.4	82.9
		R.LYGYEVSPVLWK.K	2	93.2	94.6	176.8	194.5	144.9	102.2	180.8	192.9
		R.MVFHEITEPAIR.N	3	2.7	2.6	6.5	5.4	4.9	6.8	4.7	7.9
		R.SLATEDQIFTITLDEALK.I	2	38.0	40.3	59.9	72.0	51.8	49.7	54.8	63.7
		R.SMDLETVTLEDALK.L	2	46.7	29.5	25.1	23.5	52.0	30.1	23.4	19.2

		R.VVGVDPTTNEEITAQNGR.									
MSMEG	MSMEG	Y	2	5.9	5.0	16.2	14.3	3.2	4.5	7.1	9.2
_6159	6122	R.TLEENQKVEFEVGQSPK.									
MSMEG	MSMEG	G	3	10.7	15.0	7.9	10.0	33.5	38.3	31.9	35.4
_6179	6139	K.AANALTDGLVAGDR.V	2	246.8	231.5	1082.1	1028.6	412.7	388.6	1239.4	1192.3
		K.ASAHGGPENMIEELR.A	2	83.4	82.8	552.1	559.2	86.0	93.1	629.5	671.5
		K.ASAHGGPENMIEELR.A	3	61.2	53.5	140.5	105.5	90.9	79.0	153.6	121.9
		K.LGHQIPASHDLSSLR.L	3	62.0	29.6	115.0	53.5	87.6	29.2	92.3	31.9
		K.LGHQIPASHDLSSLR.L	4	76.9	27.9	133.3	47.5	101.6	34.6	104.9	35.6
		K.LVITSDGQYR.R	2	2.8	1.8	4.1	1.9	3.2	5.4	1.4	3.8
		K.YGVTIYYTAPTLIR.T	2	142.0	160.0	322.5	337.9	241.5	239.2	344.6	342.7
		R.EIHIVPELPK.T	2	45.4	33.3	84.1	62.6	102.5	63.7	92.2	50.2
		R.ELGDTSTLVDPDVFAIR.									
		A	2	200.2	197.6	441.7	398.1	336.6	282.4	474.3	388.3
		R.FAEQGWYFAGDGR.Y	2	264.7	354.6	277.3	292.2	237.7	378.9	256.7	295.5
		R.LLGSVGEPINPEAWR.W	2	539.7	561.5	756.6	752.7	660.0	631.8	761.5	697.7
		R.LSWQTPFTDVLDWSDAP									
		FAK.W	2	57.2	70.8	93.8	108.5	55.4	112.2	57.2	124.7
		R.SITYAELKDEV#K.A	2	76.7	81.5	225.9	227.1	106.6	110.1	216.6	219.9
		R.SITYAELKDEV*C.K.A	2	76.7	81.5	225.6	227.1	106.6	106.9	216.6	219.2
		R.VAIHWEGEPVGDAR.S	2	60.1	40.8	134.8	79.4	105.4	63.6	90.0	53.6
		R.YDSDGHIWVLGR.I	3	131.3	131.4	60.5	50.5	92.6	94.9	56.7	46.9
MSMEG	MSMEG										
_6189	6148	R.AGIFQGVPEPTAVAALTQ.Q	2	791.1	816.6	1359.0	1373.8	1027.5	855.3	1413.2	1340.0
		R.AWIADRPEIAEQLLR.V	2	207.6	201.8	386.7	365.9	180.2	184.5	341.7	345.5
		R.AWIADRPEIAEQLLR.V	3	317.3	330.2	497.9	485.4	272.6	292.1	461.2	443.0
		R.TNNNLADLIFTDVPG.R.V	2	1637.6	1785.1	1135.0	1116.9	1707.9	1615.3	1191.0	1056.0
		R.TNNNLADLIFTDVPG.R.V	3	49.5	46.8	39.3	34.9	37.8	41.8	30.3	34.5
		R.VTHDLTQEELIAQLVGASR.									
		E	2	160.2	154.9	281.4	287.1	159.0	153.6	279.9	299.2
		R.VTHDLTQEELIAQLVGASR.									
		E	3	470.7	456.9	653.2	661.3	418.1	424.5	612.8	631.0
MSMEG	MSMEG										
_6191	6150	K.VGAEVSAEEAK.E	2	4.9	2.4	3.0	1.8	2.9	1.9	3.4	2.0

MSMEG	MSMEG										
_6256	6217	K.ILGIPELLVSGTC#VR.V	2	206.3	166.7	249.8	217.5	149.5	165.6	189.8	215.1
		K.ILGIPELLVSGTC*VR.V	2	196.1	156.3	234.4	205.3	126.6	145.4	168.5	188.8
		K.LVDVPTPLAAAGIDDC*LV									
		GR.I	2	143.7	144.2	174.6	185.5	150.7	133.1	214.3	205.4
		R.AVIDGVEQLVHDGSALQY									
		PAPNK.Y	3	410.0	380.4	492.5	458.7	438.8	412.7	494.0	493.7
		R.KDPDVPLVVSEVNFD.R.D	2	167.5	197.0	86.7	118.3	121.3	114.2	51.5	68.3
		R.KDPDVPLVVSEVNFD.R.D	3	58.4	67.4	51.5	47.6	57.0	61.0	28.7	45.1
		R.KGAALNTIQIAELLAADL	2	123.0	114.8	265.2	254.2	134.4	120.0	267.1	258.8
MSMEG	MSMEG	K.AVSALHEAFGLGGDDEAV									
_6257	6218	VYAGTGR	3	178.9	181.1	208.5	199.8	146.2	137.1	193.1	181.3
		K.SEIGFSQVLYDDHIGK.V	2	69.1	82.0	82.3	90.1	47.7	48.1	74.0	71.1
		K.VTVVGLPDVPGYAAK.V	2	680.3	745.1	955.7	1093.8	559.7	557.0	931.0	914.8
MSMEG	MSMEG										
_6271	6231	K.IATDAAELVLEEAK.K	2	231.6	234.9	168.5	173.4	202.5	217.0	160.3	170.6
		R.GTGVAEEAELGYQAGADR.									
		I	2	29.8	26.6	9.1	7.2	16.0	15.5	3.5	6.5
		R.GVDPQIDFSNIDEIR.R	2	102.5	139.7	22.5	23.0	47.4	163.9	13.0	35.0
		R.HPYGGDLVYTAFSGSHQ									
		DAINK.G	3	40.3	38.1	5.4	9.5	34.0	34.3	8.3	12.5
MSMEG	MSMEG										
_6280	6240	K.GSGEVVSVQIDPK.V	2	2.5	0.0	20.8	0.0	2.5	1.9	22.1	27.2
		K.VVDPDDVETLQDLIVGALS									
		DASK.Q	2	22.0	33.8	30.0	46.6	20.3	24.9	31.6	38.2
		K.VVDPDDVETLQDLIVGALS									
		DASK.Q	3	40.5	35.7	62.4	54.5	37.4	46.7	66.3	79.1
MSMEG	MSMEG										
_6282	6242	K.ATVDVAGHTVIEK.D	2	28.3	26.9	31.1	30.2	22.2	17.2	34.8	24.1
		K.DANSSLVSNWTVAPAGT									
		GSSVNLK.T	2	116.4	149.4	110.7	132.6	72.0	77.2	92.1	97.1
		K.ILSSHYSGYQVLEGGQGA									
		GTVATWK.L	3	549.1	602.4	530.8	572.2	343.4	376.3	462.0	467.0
		R.IQDEVLENLKK.H	3	6.4	4.5	2.4	1.2	5.0	6.3	3.0	3.6
		R.RIQDEVLENLK.K	2	19.8	25.2	1833.9	2223.9	7.6	13.6	2012.1	1921.3

		R.RIQDEVLENLKK.H	3	64.4	74.5	48.5	56.3	68.1	66.6	76.8	69.8
MSMEG	MSMEG	K.GLDVSLGTGVIGVDPDAR.									
_6283	6243	T	2	32.0	25.0	37.6	34.8	71.0	55.3	23.2	23.2
MSMEG	MSMEG										
_6284	6244	K.AIAQEGLTDLAEVR.H	2	365.5	364.7	384.9	436.5	352.5	362.4	431.0	461.2
		R.GTTYLATAPGDLGLAR.A	2	229.6	220.3	241.3	262.1	175.7	173.5	248.7	263.5
		R.IITEAQDVGLEVIHEENLR.									
		N	3	435.0	382.6	397.3	316.6	455.9	356.4	532.7	447.8
		R.SIGIEHLKPIAPPPQEALPR									
		.W	4	111.0	109.7	53.3	66.2	103.1	103.7	85.7	84.9
MSMEG	MSMEG	R.LDMSIPAGEASSGVAPAE									
_6285	6245	PAK.Q	2	75.4	86.7	14.6	23.1	59.9	96.1	10.6	31.4
		R.LLLPSAADTESALLQR.I	2	109.1	102.4	159.2	160.5	117.2	89.8	161.4	162.0
		R.RDPEEVALELLQNELGAR.									
		R	3	7.7	9.2	6.4	8.3	15.9	11.0	14.7	15.1
MSMEG	MSMEG										
_6286	6246	K.DAGIAVTEAGSAFPYR.K	2	184.2	178.9	111.5	117.5	145.7	146.1	125.1	141.9
		K.FALVAEILED.R.L	2	31.6	31.5	16.4	14.7	32.9	30.8	26.0	24.8
		R.NYGGVQGLPELR.A	2	68.4	31.8	19.0	10.6	79.7	79.5	88.6	85.5
MSMEG	MSMEG	K.DTADADEIDKDAADEDEA									
_6288	6249	GEGEDATER.A	3	10.5	13.8	6.9	11.1	1.8	12.4	0.1	9.5
MSMEG	MSMEG										
_6309	6269	K.TVLQNITEGPIVAQGR.P	2	43.8	44.4	251.4	233.3	60.0	56.1	255.6	195.2
MSMEG	MSMEG	K.VPFFDAGSVISTDGVDGIH									
_6317	6277	FTEANNR.D	3	574.1	636.8	359.4	367.2	366.2	396.1	269.4	282.5
		R.DLGVALAEQVR.S	2	64.5	59.0	94.8	97.3	70.0	64.7	79.6	90.5
MSMEG	MSMEG	R.SSEQTVDDAWPAVLTWR									
_6329	6290	.A	2	22.3	23.1	34.9	42.9	44.1	45.0	37.3	36.9
		R.TDSVSLPVAYVR.L	2	7.4	11.1	3.6	5.2	11.9	9.7	4.8	3.0
MSMEG	MSMEG										
_6337	6297	R.IDNTVLDAAEDATVVR.A	2	45.8	58.6	340.7	332.4	42.3	54.3	231.1	251.7
MSMEG	MSMEG										
_6351	6314	R.DHTHDLDAMLAITDR.T	2	63.3	77.5	18.0	21.5	64.3	99.7	4.4	7.2
		R.SFEIYPLQVR.T	2	241.6	208.0	79.7	86.0	223.7	171.6	95.5	79.6
		R.VGYAVADPEIVTALGK.V	2	634.5	624.8	430.7	457.2	480.6	465.4	392.0	370.9
		R.VTIGAPHENDAFLDFAQR.									
		W	3	203.7	181.8	168.7	158.3	165.1	146.3	148.6	153.9

MSMEG	MSMEG										
_6352	6315	R.DGEIPDAELDAFWALLR.P	2	21.3	26.2	13.5	18.8	14.1	21.8	9.1	15.0
		R.GEVTASM*VYDGRPVDH									
		FK.V	3	2.8	2.6	1.5	1.2	2.9	2.3	0.8	1.0
		R.HLYFYLER.I	2	63.0	65.9	30.9	38.7	47.6	53.9	31.2	31.1
MSMEG	MSMEG										
_6353	6316	K.DHVAQVTLIGPGK.G	2	9.6	5.3	124.6	120.9	4.7	4.3	89.3	97.3
		K.DLAEAVTAMFEK.R	2	43.3	46.6	35.3	37.0	38.7	38.0	27.7	36.6
		K.IGLVNDVYDDAEASLAAA									
		HATAAEIAANPPLTVAGVK.D	4	142.4	178.5	131.1	162.1	62.5	109.9	56.8	105.5
		K.LAIVADVGSLAR.L	2	105.0	108.1	94.4	94.5	105.6	105.4	80.1	90.7
		K.MQGAITAVADC#R.T	2	6.6	4.4	3.7	3.4	7.2	5.3	4.9	3.3
		R.LPLILSDGHLR.E	2	40.3	41.5	24.7	20.8	39.6	36.5	20.2	25.2
		R.LPLILSDGHLR.E	3	138.6	123.9	71.8	65.6	169.1	141.5	97.4	76.5
		R.YVAAWNSAFLPSK.D	2	187.0	210.4	198.8	229.1	216.8	216.6	232.2	245.6
MSMEG	MSMEG	R.GTFEPPGVGFVGQAFVD									
_6354	6317	ALR.G	2	5.1	3.7	53.8	48.8	6.1	5.2	61.3	52.2
MSMEG	MSMEG	K.LTHEVGGLVVVDHSAAP									
_6363	6325	YR.L	3	179.5	175.4	67.3	120.4	116.8	116.4	48.5	81.7
		R.LDDEANIAWPWR.A	2	57.3	56.9	24.1	25.6	41.4	46.5	18.7	13.9
		R.LFDYLQTSLR.S	2	24.2	22.5	51.8	60.3	17.2	15.2	31.2	28.8
MSMEG	MSMEG										
_6365	6327	R.LTLPFTDDNVPSDAELR.I	2	115.9	124.3	108.2	123.7	123.0	126.3	137.8	142.9
MSMEG	MSMEG										
_6384	6346	K.AAGFDVTVPFTPGR.G	2	151.2	150.7	245.3	251.2	400.5	349.6	255.7	271.9
		K.ELIADSGLTSQLVSTAW									
		K.A	2	3.6	6.2	5.5	8.4	16.2	14.2	6.2	7.6
		K.NPDVINPLDEDFDYR.S	2	145.4	161.9	146.5	136.7	325.5	357.2	137.8	141.6
		R.ANLLGLSAPEMTTLVGGL									
		R.V	2	70.0	75.1	85.2	88.0	193.8	180.4	85.6	77.2
		R.FAPLNSWPNDNASLDK.A	2	645.1	622.9	242.2	255.2	757.5	745.0	259.6	242.3
		R.GDATQEETDVDSFAYLEP									
		K.A	2	34.0	31.7	28.2	35.7	107.7	90.8	31.4	28.1
		R.SAVQNLDVDALR.A	2	188.1	189.3	253.2	250.3	311.3	188.2	528.0	289.5
		R.VDLVFASNSQLR.A	2	53.2	67.0	81.0	107.3	171.2	168.6	95.2	97.3
		R.WLDHPEELAEEFAK.A	2	53.5	61.8	26.8	29.2	57.8	65.1	24.7	27.9

		R.WLDHPEELAEEFAK.A	3	11.1	9.9	7.5	6.9	50.9	50.9	7.2	11.9
MSMEG _6385	MSMEG 6347	K.AGLDGFYLGLGEALR.E	2	109.1	107.3	132.2	120.2	92.9	87.0	115.6	93.7
		K.ELVWAPGAFR.Y	2	94.8	93.5	71.9	69.5	66.8	67.9	80.4	72.7
		R.IVLAVMPGDPGR.D	2	163.7	152.7	176.0	158.8	114.3	153.6	115.6	177.9
MSMEG _6391	MSMEG 6353	K.DVTGEDVTFDELGGADE									
		QAK.R	2	65.6	73.4	68.5	75.8	40.4	48.0	17.7	19.8
		K.TPGDPNALYGDGVVTGR.									
		G	2	382.7	317.5	467.4	429.4	360.0	308.3	419.7	402.5
		K.TTAELLAELR.E	2	70.7	54.5	154.5	128.8	119.6	112.1	272.8	244.7
		R.DQGYMFITGPDVIK.D	2	244.3	237.1	267.9	258.4	148.5	146.8	116.5	108.3
		R.FFNAIVEADVPK.V	2	367.5	317.3	528.4	512.2	409.3	368.5	607.8	545.3
		R.GLVPEISLIFGK.C	2	90.6	89.7	69.2	76.1	107.5	98.7	70.3	60.7
		R.GYIDAVIQPHETR.L	3	16.7	6.5	35.3	14.6	13.3	3.0	14.7	7.1
		R.IFDDGDVFIAEQR.G	2	411.0	388.1	415.8	426.6	486.6	411.0	402.7	314.3
		R.INALLDPGSFIEIGALAK.T	2	550.9	530.6	605.3	573.8	653.1	536.6	599.5	539.8
		R.IQDAVTSLAWYAEGLR.R	2	181.9	180.9	373.6	369.9	206.2	192.0	293.1	246.2
		R.VDGHPPVGVIANQPMVLSG									
		AIDNEASDK.A	3	749.8	752.5	403.0	394.8	596.5	630.8	185.0	209.9
MSMEG _6392	MSMEG 6354	K.EGSNAVPLFVFHPAGGST									
		VVYEPLMK.R	3	83.9	72.0	158.5	141.7	93.1	79.4	139.2	113.3
		K.ESGVQIPGGIIEHQR.T	2	35.2	31.8	154.1	144.9	61.3	41.1	160.6	113.6
		K.GASHTQQM*DPLLGELAA									
		ELQGIEPK.P	3	90.9	98.2	179.1	191.8	95.5	105.6	150.1	155.7
		K.GASHTQQMDPLLGELAAE									
		LQGIEPK.P	3	90.9	98.2	179.1	191.8	95.5	105.6	153.3	158.7
		K.GFDSEFFALSK.M	2	52.2	45.4	95.7	83.6	72.5	62.0	105.0	79.3
		K.LPPSINYAGPNPYIDFEK.E	2	39.8	39.4	72.6	69.0	35.4	32.9	34.2	34.3
		K.PAAVVGQSLGEAAASYFA									
		GGLSSLADATR.T	3	104.3	117.9	197.0	217.1	106.8	130.3	140.8	164.8
		K.PLTTGYFSTVHEGT FIR.P	3	18.5	15.3	42.0	38.0	9.1	12.7	19.5	22.9
		K.PLTTGYFSTVHEGT FIRPG									
		SAPIHDVDYWK.K	4	43.6	39.5	105.7	92.5	54.1	54.7	112.7	123.0

K.PLTTGYFSTVHEGT FIRPG									
SAPIHDVDYWK.K	5	66.2	57.8	99.7	100.2	53.2	75.2	56.6	95.2
K.RLPADVPVYGLER.V	2	9.0	8.3	26.0	22.6	17.1	14.0	27.1	21.0
K.RLPADVPVYGLER.V	3	12.8	12.3	18.5	17.0	23.3	22.7	24.0	24.3
K.SNLGHLESAAGAASLAK.									
M	2	32.6	27.4	95.8	82.4	59.0	36.5	114.7	74.4
K.SNLGHLESAAGAASLAK.									
M	3	78.7	74.6	127.4	122.9	88.2	87.5	115.7	108.8
K.SPGGIFNELPTVSEETAK.									
K	2	83.3	80.0	183.4	163.8	90.9	82.6	145.1	130.3
K.SPGGIFNELPTVSEETAKK									
.M	3	32.7	37.9	48.3	53.8	39.4	45.2	63.5	55.6
K.TAAEIAAEQSELLGGASTV									
AELEAK.L	3	81.0	79.6	180.8	179.0	81.6	103.5	158.6	174.1
K.TIEGLATIVR.E	2	66.7	60.0	114.9	103.0	81.0	78.3	115.4	101.3
K.VLTQEAVTEALGADVPPR.									
D	2	19.9	19.9	41.3	48.5	23.5	30.8	26.6	42.5
K.VLTQEAVTEALGADVPPR.									
D	3	29.3	32.4	64.0	60.7	29.4	39.9	39.1	54.5
R.AEGTITVEDVLGAK.T	2	105.9	81.6	200.7	167.9	107.3	88.9	158.1	124.7
R.DANLYNVEELIR.Y	2	99.7	87.7	185.9	165.9	128.3	123.1	177.3	161.9
R.DGDQILAVIAGSAVNHDG									
R.S	2	10.9	9.1	28.9	22.3	22.5	16.8	31.1	24.6
R.DGDQILAVIAGSAVNHDG									
R.S	3	31.4	27.9	63.2	53.1	44.8	46.1	64.0	57.9
R.DVDYIEAHGTGTILGDPIE									
ADALGR.I	3	88.4	83.4	176.2	148.3	97.8	113.7	149.4	147.5
R.DVEDIAIVGVATR.F	2	44.1	47.7	80.1	91.2	38.3	42.9	45.4	59.1
R.EQLEEGVVDFGVR.T	2	139.3	136.1	158.6	158.3	124.5	118.4	161.2	142.9
R.EVLAGDLVEPEPEPEPEA									
KPEK.S	3	239.5	246.8	494.3	511.7	285.3	276.4	462.0	428.9
R.FPGLDLNTPDEMWEALLE									
GK.D	2	16.6	19.1	34.8	34.3	13.1	24.4	15.5	29.2
R.FVGLIDTVLPGEPIDQSK.E	2	159.5	142.5	346.0	306.1	205.5	186.6	363.5	300.4
R.GPSVAVDTAC#SSSLVAT									
HQGVQALR.A	3	41.8	39.4	149.4	133.4	39.4	31.6	172.8	136.2

R.GPSVAVDTAC*SSSLVAT											
HQGVQLR.A	3	41.8	39.4	141.6	132.3	39.4	31.6	170.4	136.2		
R.HPGGATVQVHAR.V	3	0.5	0.2	0.5	0.2	0.5	0.4	0.3	0.2		
R.HSVYFTQGIR.N	2	6.0	4.1	9.2	5.3	6.3	4.5	5.4	3.4		
R.HVWEFVPR.G	2	37.0	30.3	59.4	51.7	42.5	41.4	55.9	53.0		
R.LMALVEYSADEIK.T	2	276.0	261.6	159.7	144.7	125.7	142.0	125.7	138.1		
R.LPADVPVYGLER.V	2	85.0	86.1	227.4	224.7	68.3	88.2	163.5	188.8		
R.M#ALELTWEALEHAR.I	3	8.5	6.4	11.9	12.0	6.5	7.2	5.4	5.4		
R.M*ALELTWEALEHAR.I	3	2.0	1.4	2.9	2.7	6.5	6.8	5.4	5.4		
R.MALELTWEALEHAR.I	2	3.4	5.3	7.2	5.8	9.9	9.5	8.7	4.6		
R.MALELTWEALEHAR.I	3	2.0	1.4	2.9	2.7	8.5	6.8	10.7	8.3		
R.NEVFAEWINK.V	2	48.1	45.2	83.0	72.1	52.8	47.0	62.4	57.6		
R.PGSAPIHDVDYWK.K	3	11.0	12.5	19.7	21.1	5.4	7.7	7.5	11.1		
R.RDGDQILAVIAGSAVNHD											
GR.S	3	12.6	10.3	22.5	19.8	19.4	24.2	30.1	24.7		
R.RDGDQILAVIAGSAVNHD											
GR.S	4	3.4	3.2	3.1	2.2	5.4	5.7	2.6	2.8		
R.SNGLLAPNPDAQAEVLR.											
K	2	50.3	52.7	178.4	141.8	45.0	43.9	105.9	69.4		
R.TFNVEIPAIPYEELEK.L	2	24.2	24.2	61.3	64.8	16.2	20.9	34.0	50.0		
R.TFNVEIPAIPYEELEKLD											
EGQVK.Y	3	103.9	123.1	158.8	199.5	125.3	153.9	150.9	206.2		
R.TRDVEDIAIVGVATR.F	3	7.4	5.9	9.6	10.6	14.3	14.1	15.0	14.9		
R.VEESFTLVYDAIVAR.A	2	8.1	8.3	13.0	18.9	24.6	19.5	33.7	24.1		
R.VEYDFDLPPQLTAVR.D	2	27.0	22.9	47.0	38.2	32.6	28.0	39.0	30.6		
R.VSYFYDFR.G	2	57.4	48.4	90.3	84.0	47.3	46.8	75.5	73.0		
R.VTFATWAIVTGK.S	2	26.5	21.8	56.6	42.1	44.9	37.4	69.8	50.0		
R.YAIEHRDEVEQIAESQK.G	2	0.6	0.3	1.4	1.3	6.3	2.8	7.8	3.6		
R.YAIEHRDEVEQIAESQK.G	3	59.9	66.6	148.8	131.4	124.5	127.2	192.1	177.3		
R.YHDDAIVFEPAYATR.K	2	20.2	19.7	57.1	53.1	32.9	30.5	64.3	52.5		
MSMEG	MSMEG	K.AIHKSYGLAEATLFVSTTP									
_6393	6355	SAEERP.K.I	3	793.4	737.7	1438.7	1283.5	971.3	1016.3	1470.6	1460.1
		K.AVLNGSEPISAATVR.R	2	386.1	309.8	698.0	527.5	431.4	295.5	643.4	409.1
		K.EGDTGGTISVAPNFAFDH									
		AAAR.G	3	430.8	410.1	788.9	739.0	477.6	503.0	603.0	631.4

		K.FPDGSSIVAHVER.W	2	212.1	190.2	226.8	250.5	236.8	229.1	187.4	183.9
		K.FPDGSSIVAHVER.W	3	344.7	307.1	538.9	477.6	346.4	342.9	440.3	447.5
		K.LDIGPITDDIR.A	2	323.0	302.5	523.7	497.8	439.9	360.8	599.8	486.7
		K.RDPDDTSEQLVIVAER.A	2	200.9	189.3	148.6	163.8	169.2	228.5	106.8	224.2
		K.RDPDDTSEQLVIVAER.A	3	202.9	196.9	254.9	235.4	242.2	246.8	267.7	274.8
		R.DLTWAQFSAR.N	2	102.7	94.6	140.9	125.6	187.4	157.9	203.6	173.0
		R.DVLLTAAGAIPR.T	2	466.1	403.8	770.0	650.8	661.4	520.2	851.3	683.3
		R.DVLLTAAGAIPR.T	3	0.4	0.2	17.3	12.0	0.7	0.0	17.0	15.1
		R.FNEAFGPFGFPPK.A	2	22.6	19.3	28.3	24.1	43.0	19.6	33.6	18.4
		R.GVPKPGSPPLDLSNVK.A	2	219.2	200.2	501.1	469.9	277.7	285.9	434.1	480.6
		R.IAVPLFDPSEPGHVGR.L	2	164.8	154.0	231.3	212.7	231.6	231.3	289.8	249.9
		R.IAVPLFDPSEPGHVGR.L	3	15.2	12.4	9.8	8.2	14.9	17.4	5.4	9.0
		R.IPTGVQITHLNLATNVVQVI									
		EALEGEEGDR.G	3	188.8	261.4	267.8	353.0	95.4	283.3	107.6	306.5
		R.KEGDTGGTISVAPNFAFD									
		HAAAR.G	3	200.7	215.6	215.3	239.4	177.1	254.8	182.0	265.7
		R.KEGDTGGTISVAPNFAFD									
		HAAAR.G	4	172.0	151.4	219.8	168.1	211.4	213.2	223.5	195.4
		R.LHAVLDNC#HPSAILTTTE									
		AAEGVR.K	3	286.9	293.6	445.5	449.0	289.8	352.1	366.0	440.5
		R.LHAVLDNC#HPSAILTTTE									
		AAEGVR.K	4	332.2	294.6	593.4	494.7	328.7	365.3	471.7	465.6
		R.LHAVLDNC*HPSAILTTTE									
		AAEGVR.K	4	328.2	292.7	591.3	494.3	324.2	363.0	471.0	465.2
		R.NHYPQDLEYSAQEASK.A	2	29.0	11.1	34.9	7.5	20.1	15.8	12.3	9.5
		R.NHYPQDLEYSAQEASK.A	3	104.0	60.1	118.9	68.1	73.1	58.6	74.2	46.3
		R.TGDYGAFYDGDLYITGR.V	2	230.8	208.8	300.3	257.7	309.0	230.4	359.5	255.7
		R.TGYVAAFSV PANQLPDEV									
		FENAHSGIK.R	3	414.9	434.3	612.3	626.6	651.1	648.7	764.5	785.6
		R.TNPSHAEGATDDATWVR.									
		T	3	3.6	3.6	4.2	3.2	2.7	4.7	1.2	3.6
MSMEG	MSMEG	K.ADDMWGSTNDPNNAWK.									
_6398	6360	A	2	158.9	169.2	51.2	56.8	260.1	322.6	37.8	51.7

		K.ANDPTENVATIANNGTR.I	2	5.1	3.7	0.9	0.5	10.5	12.6	0.4	1.9
		K.WETFLTQELPAWLAANR.									
		D	2	260.3	276.0	107.3	106.6	340.0	367.5	69.5	76.4
		K.WETFLTQELPAWLAANR.									
		D	3	56.0	64.2	21.6	25.5	70.6	85.9	18.5	22.7
		R.PGLPVEYLEVPSAAM*GR.									
		D	2	185.8	207.7	18.9	33.3	134.5	239.7	28.8	37.8
		R.PGLPVEYLEVPSAAMGR.									
		D	2	285.4	287.8	73.8	78.7	341.0	358.7	28.8	37.8
		R.VEFQSGGPGAPALYLLDG									
		M*R.A	2	88.0	84.7	79.4	79.8	97.9	94.4	73.2	67.9
		R.VEFQSGGPGAPALYLLDG									
		MR.A	2	411.7	426.1	158.6	170.8	885.0	864.0	171.5	170.5
		R.VEFQSGGPGAPALYLLDG									
		MR.A	3	69.3	79.2	13.4	14.5	150.6	135.2	15.0	17.6
MSMEG	MSMEG										
_6399	6361	R.AVYLLDGLR.A	2	4.1	2.3	4.4	4.1	9.5	15.1	7.0	5.5
		R.ELPAWLAANR.N	2	22.1	27.1	25.2	39.9	63.8	54.4	30.7	32.9
MSMEG	MSMEG										
_6402	6364	R.ERPSHPDIAVNVGTPSR.L	3	5.8	3.7	3.5	2.2	4.2	4.3	2.4	2.5
		R.GEDAVLVAVQAALAGR.P	2	32.2	33.1	29.5	29.9	23.1	21.4	24.2	24.0
		R.GEDAVLVAVQAALAGR.P	3	5.4	2.5	1.3	0.8	2.5	2.6	0.4	1.0
		R.GEDAVLVAVQAALAGRPG									
		VLTGAR.A	3	14.4	3.8	13.8	4.7	15.0	13.8	16.3	15.6
		R.LVLGVHYPTDVVTGVVVG									
		ALVGK.A	3	61.8	54.6	44.4	40.0	50.7	48.8	32.7	32.1
MSMEG	MSMEG										
_6403	6365	K.IAIPVSKPAIAVNLR.G	3	37.8	37.0	15.5	11.4	58.8	61.8	30.2	35.8
		R.LSIHNQPNLGGSGGYSR.									
		V	3	9.2	6.8	2.8	1.9	7.8	6.9	1.5	2.1
		R.SHDPETHVRPQINVATQD									
		AR.W	3	19.5	4.5	14.9	3.0	18.6	3.7	14.5	2.7
		R.SHDPETHVRPQINVATQD									
		AR.W	4	83.6	31.5	55.0	19.4	51.8	22.5	32.9	13.9

MSMEG	MSMEG	R.VHSAGWYAPVPAPGR.A	3	46.9	24.3	19.4	22.5	44.0	16.3	31.8	27.9
_6404	6366	R.AANPDAPVVYTGPLDR.Y	2	132.1	75.7	36.4	15.4	185.7	192.3	121.9	154.5
		R.ALIAEQASEIDTK.D	2	160.2	154.0	186.1	182.4	119.6	104.6	201.3	212.4
		R.LD TDWFDVR.D	2	38.3	39.9	8.7	7.8	19.2	27.6	4.5	12.2
		R.RPHIGGNAYSEPEPETGIE									
		VHK.Y	3	15.2	3.4	9.7	3.1	48.9	31.2	63.4	37.9
		R.RPHIGGNAYSEPEPETGIE									
		VHK.Y	4	60.2	39.0	57.4	42.1	131.9	127.2	200.5	184.8
		R.YFNDTYEGLPVEGYTK.W	2	132.0	150.0	69.6	94.5	95.5	100.6	78.8	87.9
MSMEG	MSMEG	R.AGELVGVYPEATISR.S	2	110.5	136.2	219.3	283.1	166.5	162.3	228.4	262.4
MSMEG	MSMEG	K.VPIFIAVGEPIAPTLPAEL									
_6409	6372	TALLHSR.M	3	71.5	73.6	834.4	873.0	56.7	81.7	1192.1	1196.5
MSMEG	MSMEG	K.DAVVLLPDYPVPDLR.R	2	146.6	139.4	170.9	159.1	182.1	159.2	179.8	164.4
		R.VGGYNEYLYTFFK.C	2	85.6	81.5	42.5	34.7	109.5	95.0	81.0	75.1
		R.YGFEIPAALVR.T	2	31.7	28.8	36.4	80.9	32.8	34.2	12.2	13.0
MSMEG	MSMEG	K.GIFPWYAPGR.D	2	27.8	28.2	27.0	24.3	33.7	32.4	16.4	23.5
		K.GIFPWYAPGRDDFLGEFP									
_6412	6375	LSSESIK.L	3	39.5	39.2	31.7	39.5	45.0	59.1	36.9	56.0
		K.GSDDTPLEDVGALMVAS									
		GHPEVVLIGIGATR.Y	3	115.7	128.0	132.3	130.8	91.6	114.7	89.8	110.3
		R.DDFLGEFPLSSESIK.L	2	170.3	163.8	172.0	172.9	166.9	169.4	141.4	155.1
		R.YTPLGESTYLKPGDEAIVR									
		.V	2	38.3	37.3	34.2	31.5	61.3	51.2	44.5	30.8
		R.YTPLGESTYLKPGDEAIVR									
		.V	3	305.4	291.4	354.4	361.5	420.6	395.1	433.1	401.5
MSMEG	MSMEG	R.GEDPALVDALLAADTAR.R	2	128.7	119.4	23.5	26.6	130.4	130.1	17.8	16.8
MSMEG	MSMEG	R.FVLVGLPGTPPPATGADR									
_6413	6376	.T	2	81.2	85.1	66.5	68.8	116.8	110.4	57.4	59.3
		R.LDEATTWLEGLR.A	2	13.6	18.7	22.2	20.4	17.8	25.6	10.8	21.4

MSMEG	MSMEG										
_6422	6385	R.AGSNLFHIEDFVAR.E	2	16.5	19.9	10.7	22.5	40.1	38.1	16.8	15.3
		R.AGSNLFHIEDFVAR.E	3	12.1	11.5	1.0	1.0	55.2	56.0	2.9	1.2
		R.DALALALDQER.T	2	29.8	39.9	406.4	437.5	71.8	75.9	432.4	428.2
MSMEG	MSMEG	K.ADISAVPTTFDQSvvLLDV									
_6425	6388	R.E	2	31.5	37.7	76.0	56.7	25.0	27.2	46.9	63.3
MSMEG	MSMEG										
_6427	6390	K.AFWNVVNWDDVQNR.F	2	4535.0	5364.1	2386.5	2610.6	2992.6	3672.6	1784.3	2144.9
		K.AFWNVVNWDDVQNR.F	3	400.2	441.3	219.8	223.9	292.2	293.8	172.2	177.2
		K.NLAFHLGGHINHSIW WK.									
		N	3	332.4	272.6	231.7	211.9	247.2	223.8	158.5	176.9
		K.NLSPNGGDKPTGELAAAI									
		DDQFGSFDK.F	3	6059.2	6722.4	2557.8	3034.8	3237.5	3942.4	1836.6	2229.5
		R.ANGDHAAIFLNEK.N	3	33.3	29.8	8.1	5.8	33.2	22.2	6.1	4.2
MSMEG	MSMEG										
_6431	6392	K.ELTWLANMR.D	2	18.8	19.5	5.5	6.2	19.6	18.4	6.6	7.1
		K.SEGITM#SAPYLSQLR.S	2	234.1	211.3	70.2	71.3	245.9	229.8	68.9	63.1
		K.SEGITM*SAPYLSQLR.S	2	120.1	123.6	70.2	71.3	102.4	106.5	68.9	63.1
		K.SEGITMSAPYLSQLR.S	2	120.1	123.6	91.8	92.3	102.4	106.5	73.4	76.2
		R.GPHTSAEVIAALK.S	2	27.3	20.4	17.2	14.6	30.7	21.1	19.3	12.2
		R.GPHTSAEVIAALK.S	3	71.3	56.1	41.5	37.0	72.4	63.3	44.1	36.5
		R.IKPAYFTDDEYYEK.L	2	146.5	160.7	104.8	112.5	139.4	135.6	108.1	92.3
		R.IKPAYFTDDEYYEK.L	3	241.9	274.3	173.6	201.8	200.6	239.2	148.7	170.0
		R.TNPSAATM*AALANFFR.I	2	42.6	42.9	27.8	30.7	36.0	33.8	18.2	18.6
		R.TNPSAATMAALANFFR.I	2	61.9	67.9	27.8	30.7	80.0	74.0	41.6	35.4
		R.TNPSAATMAALANFFR.I	3	6.6	5.1	1.4	1.1	7.4	8.0	2.3	2.0
		R.TVGLSPEAQQDLVQK.A	2	403.4	325.7	291.6	232.8	443.2	500.6	336.9	377.9
		R.TVGLSPEAQQDLVQK.A	3	13.2	11.4	3.8	1.9	12.2	18.5	1.6	5.0
MSMEG	MSMEG										
_6434	6397	R.LLAPVLVPVVYR.A	2	95.1	87.2	459.3	482.6	80.9	93.5	241.1	281.4
		R.LTDLAAAVTAAENMPSAR.									
		R	2	284.0	280.6	56.2	55.7	242.6	251.4	30.4	49.6
MSMEG	MSMEG										
_6439	6402	K.IMFAGPVTTVR.C	2	265.0	270.3	221.8	219.4	247.4	196.2	260.6	191.8
		R.ATADLVDEIYPDVR.S	2	311.1	316.8	165.8	159.5	196.9	226.5	141.0	153.1

MSMEG	MSMEG										
_6440	6403	R.ANIGGTWDLFK.Y	2	30.7	22.2	8.4	5.8	6.7	5.3	0.7	1.8
MSMEG	MSMEG	K.FLADEPIELLDGEGSAVIK.									
_6452	6415	R	2	363.0	326.0	355.1	315.9	371.4	335.9	429.0	390.4
		K.FLADEPIELLDGEGSAVIK.									
		R	3	128.1	112.0	86.1	72.0	170.7	128.2	130.2	108.5
		K.LLAAGEGIAPLSSEQAAVR									
		.L	2	757.5	722.1	691.5	677.2	728.4	669.8	745.7	727.2
		R.FAGPNLVGVNTILLK.H	2	217.1	200.9	235.4	199.2	269.9	234.9	354.0	330.2
		R.FIVNESIYDDFLAK.F	2	226.4	202.8	165.8	157.1	243.4	202.6	209.7	165.3
		R.VAAVSLTGSER.A	2	13.6	10.9	12.2	10.3	11.5	9.3	10.4	6.5
MSMEG	MSMEG										
_6454	6416	K.EITLSAHLR.L	2	11.0	8.0	0.4	0.1	2.6	1.4	0.5	0.2
		K.GLLTQETTTFDGK.F	2	977.8	653.1	108.1	67.9	150.8	167.2	77.0	110.9
		K.TSPQNTTWADM*LAIWK.									
		A	2	50.6	46.8	10.4	19.7	10.1	9.7	11.9	14.4
		K.TSPQNTTWADM LAIWK.A	2	612.4	599.6	81.9	78.9	101.5	107.0	90.8	83.6
		K.TSPQNTTWADM LAIWK.A	3	19.2	20.5	0.1	0.0	0.5	0.2	0.1	0.0
		K.YADHWNFVG GTPEEFAR.									
		K	2	248.3	268.1	5.6	6.7	36.6	41.4	9.0	12.0
		K.YADHWNFVG GTPEEFAR.									
		K	3	489.3	539.1	55.6	64.4	70.4	84.8	58.0	77.8
		R.FDRFEEAC#EVLK.G	2	368.4	306.2	32.8	20.3	63.4	60.5	34.7	27.9
		R.FDRFEEAC#EVLK.G	3	400.8	354.0	40.0	36.9	78.8	56.9	53.9	40.2
		R.FDRFEEAC#EVLK.G	3	400.8	354.0	40.0	36.0	78.8	56.9	53.9	40.2
		R.VGVLVTGIHYR.H	2	35.8	26.3	0.8	3.2	0.3	2.1	13.6	11.7
		R.VGVLVTGIHYR.H	3	144.0	107.3	4.2	0.7	15.8	16.9	4.7	2.3
MSMEG	MSMEG										
_6457	6419	R.LVLPGDLNGSRYVSEL.R.E	2	8.9	14.5	37.5	44.9	42.9	52.0	37.4	53.1
MSMEG	MSMEG	K.VAVVGSGPAGLAAQQQLT									
_6458	6420	R.A	2	115.3	124.9	73.6	81.6	129.0	125.8	9.2	14.2
MSMEG	MSMEG	K.AHADVVLISGHGGTGAS									
_6459	6421	PLTSLK.H	3	56.4	55.1	29.5	24.9	78.1	73.8	18.5	18.9
		KAITALVNLEHR.G	2	5.3	6.1	107.8	153.8	12.6	5.7	53.1	119.7
		K.IAEAEGLEVLGWR.E	2	36.5	32.9	17.9	14.4	57.4	56.9	19.6	23.4

		K.LVSENGVGTVAAGVSK.A	2	27.6	26.5	14.5	16.1	27.5	28.6	18.5	20.7
		K.VGLVVEAGDAR.E	2	2.4	2.3	0.6	0.8	3.7	3.9	0.2	0.3
		R.EGEYHLFNPDTVFK.L	2	29.2	21.4	13.5	7.9	21.8	18.8	3.6	2.5
		R.EGHRPPVPIEEVEPASEIV									
		K.R	3	45.1	47.1	47.5	45.7	69.6	63.2	58.6	53.1
		R.ELMAQLGFR.T	2	2.6	2.8	2.7	2.0	5.8	7.2	1.8	0.9
		R.ETVYFPSLSGQTFVYK.G	2	92.1	70.3	62.0	80.9	108.3	82.8	75.2	112.8
		R.EVPTDDSSLGALAR.D	2	49.9	50.4	24.4	25.1	66.3	65.4	31.3	30.1
		R.FDEVLELLHLGGR.S	2	11.7	14.1	4.6	4.1	22.2	18.4	3.1	6.3
		R.FGVTSHYLANC#TDIQIK.									
		M	3	17.6	17.2	10.8	9.1	18.4	24.0	8.2	12.1
		R.GAQGAEPNTGDGAGILIQ									
		VPDAFLR.A	3	16.9	18.0	8.5	8.4	19.5	25.0	7.6	14.4
		R.GILASHVDATDSAVGQR.I	3	19.1	15.7	5.5	8.9	14.1	19.4	4.4	6.6
		R.ILADWDNELK.H	2	34.7	34.6	16.6	19.4	46.2	51.7	13.9	13.8
		R.IVVQVDGQLK.T	2	16.7	14.2	1.1	0.2	20.7	20.4	0.5	0.8
		R.TGAEALGSMGTDTPIAVL									
		SAR.P	2	34.7	39.5	273.9	213.6	47.0	40.8	297.7	243.8
		R.TVNEMVGQVGALDTTK.A	2	33.2	34.9	18.2	18.5	50.6	44.8	24.0	23.5
		R.VC#HLDTC#PVGVATQNP									
		LLR.Q	3	60.8	58.5	14.7	19.2	83.0	89.4	11.8	15.7
MSMEG	MSMEG										
_6464	6424	R.LAVEVAESGGATK.T	2	1.3	1.4	4.7	3.2	3.9	2.9	5.7	4.4
MSMEG	MSMEG	K.LEDLDLVSQDLIAHAGEL									
_6467	6427	EK.F	3	108.1	106.8	255.7	235.2	62.7	63.2	259.6	226.8
MSMEG	MSMEG	K.ALNEAVDEVIAVADAEGID									
_6471	6431	AGAVK.G	3	84.6	80.7	30.9	25.1	59.1	45.0	57.7	36.0
MSMEG	MSMEG	R.NHPGHAEAVEIVYDPAQT									
_6477	6437	DYR.A	3	44.5	48.9	6.6	10.7	30.4	31.3	2.9	5.4
MSMEG	MSMEG										
_6502	6463	R.VIASVQVQQ	2	7.2	5.1	10.5	7.9	7.7	4.3	14.6	8.8
		R.VNSDAADELHVHSNPEHN									
		FPIEPR.S	3	125.1	122.5	231.5	220.4	130.4	113.3	260.4	228.5

		R.VNSDAADELHVHSNPEHN									
		FPIEPR.S	4	135.5	156.4	45.4	53.7	140.9	172.1	34.0	41.6
		R.VNSDAADELHVHSNPEHN									
		FPIEPR.S	5	86.5	0.0	17.5	0.0	115.5	121.7	17.7	18.1
MSMEG	MSMEG	R.LTAGVAPESTTAAVDQLR.									
_6506	6467	S	2	39.3	44.9	288.7	309.1	29.9	30.7	430.3	313.7
MSMEG	MSMEG	K.AYPLGATYDGSGTNFALF									
_6507	6469	SEVAER.V	3	56.0	67.9	30.6	47.8	25.8	28.9	21.1	35.0
		K.GLSNYWGYNTIGFLAPDS									
		K.Y	2	80.4	80.1	51.3	65.0	44.8	47.8	47.4	57.9
		K.GLTQTHPDIPDNIR.G	2	97.5	73.0	157.0	165.4	70.6	49.9	120.6	115.1
		R.ITGSADLYEQTGR.R	2	37.8	28.0	28.0	20.7	16.3	17.9	21.3	24.8
		R.LATFFELVQQDPVVSVQVK.									
		L	2	179.5	181.9	153.9	161.3	105.3	103.6	182.2	165.7
		R.LATFFELVQQDPVVSVQVK.									
		L	3	33.3	48.2	16.5	34.4	35.8	30.3	20.8	29.8
		R.NFITLQLSQGVPMALAHG									
		DELGR.T	3	110.8	131.6	119.0	135.7	53.5	71.8	99.2	129.4
		R.VELC#LFDDDGDGGLR.E	2	39.0	50.7	16.6	27.1	12.1	15.4	13.0	30.8
		R.VTETGLEIWR.G	2	143.7	131.0	191.2	170.8	103.9	92.4	204.4	143.2
MSMEG	MSMEG	R.VPADQLVGEENQGWVYA									
_6511	6473	K.F	2	185.1	194.2	136.8	138.7	143.6	153.9	101.3	106.3
MSMEG	MSMEG	R.ISAGLAAEALGAMEEALR.									
_6512	6474	L	2	163.8	141.1	125.0	109.0	87.0	88.4	71.0	70.4
		R.ISAGLAAEALGAMEEALR.									
		L	3	27.1	31.6	13.8	16.8	18.3	15.1	12.3	7.1
		R.LAPEPVLHGALAPGAIIE									
		R.G	3	200.0	177.7	199.3	177.5	170.7	160.1	170.3	176.5
		R.LTAIEHTLGSQAQDQLR.T	2	99.1	104.1	182.4	184.1	76.7	87.1	134.7	137.2
		R.LTAIEHTLGSQAQDQLR.T	3	144.6	147.3	408.2	359.0	134.1	111.6	437.2	413.9
MSMEG	MSMEG	R.FFSHQPDLYDNPAVQEA									
_6515	6477	MLDVLRF	3	50.3	72.7	58.3	96.5	19.1	42.7	33.5	94.0
MSMEG	MSMEG										
_6520	6479	R.DLGIEPVKDV	2	10.8	11.0	12.2	10.4	4.0	8.6	11.7	14.4
		R.GVPFAALVTYR.D	2	71.5	37.6	75.6	44.6	80.3	83.6	78.8	76.0

		R.VTAAGAVVSGVIPMVDR.									
MSMEG	MSMEG	G	2	48.0	61.1	217.4	216.4	46.6	54.0	182.8	200.6
_6524	6483	K-AAFADLPVVHGPVTNPTP EQTEAATK.Y	3	103.0	109.7	374.6	390.2	178.1	167.1	350.4	406.2
MSMEG	MSMEG	R.GDFPLNTAGGQLGFGQA									
_6561	6523	GLAGGMHHVCDATR.Q	3	3.7	0.0	6.0	0.0	1.6	1.5	5.1	5.7
MSMEG	MSMEG										
_6565	6527	R.DITDALLSALNR.R R.NAAIDNVANLLGTSR.T	2	71.9	65.6	44.2	44.8	57.6	52.1	77.6	53.0
			2	306.3	333.0	297.3	314.7	237.7	235.0	300.9	283.1
		R.SEMASYFPAPVMVVR.A	2	179.8	177.4	164.0	160.1	176.7	179.0	137.9	151.4
		R.TSDVGASGDGSGAPAAD									
		LDEEIR.A	2	119.1	139.6	97.3	111.8	84.3	98.9	79.1	96.9
		R.TSDVGASGDGSGAPAAD									
		LDEEIR.A	3	59.0	68.1	46.8	54.8	28.5	33.3	23.9	37.5
MSMEG	MSMEG	R.VEWVLAHPTGITEIQEGTL									
_6574	6535	TVGGDR.I	3	66.4	66.7	49.4	52.2	29.2	31.0	33.9	35.4
MSMEG	MSMEG										
_6587	6549	R.LPIEPISQASAAQR.A	2	3.7	4.4	5.9	6.5	1.8	2.7	3.2	5.0
MSMEG	MSMEG										
_6596	6557	K.TTEHRPEILLSFGFVPK.M	3	82.5	77.6	38.5	41.8	56.3	59.6	46.8	42.9
		K.VLAIAAETGIEGR.I	2	78.5	81.1	42.8	60.0	67.4	89.8	25.5	26.8
		R.GLC#TQVTSFLGEEALR.E	2	108.1	115.7	59.2	56.9	129.0	126.3	37.7	39.0
		R.GLC*TQVTSFLGEEALR.E	2	107.5	114.9	58.3	56.9	129.0	119.8	37.7	37.8
		R.LTALSGAGFDGISFVGVP									
		R.T	2	332.8	356.7	79.2	74.0	222.1	305.7	43.4	48.4
MSMEG	MSMEG	R.GAHFC#LGASLARVEGR.									
_6622	6584	V	2	235.3	286.3	35.2	46.3	177.9	164.1	42.8	45.9
MSMEG	MSMEG										
_6630	6591	K.EIEATGGAIK.G	2	6.1	5.1	8.6	7.9	8.8	5.9	11.3	8.0
		K.FYETLGFSLK.F	2	3.8	3.3	4.2	5.3	7.0	6.0	10.8	9.3
		K.M#VVLSTENLDESIK.F	2	37.5	44.0	55.2	61.3	34.3	38.3	52.1	49.2
		K.MVVLSTENLDESIK.F	2	221.2	0.0	177.7	0.0	215.0	232.4	232.3	205.6
		R.AVYYDNTGNGLVFYSPLK.									
		R	2	29.4	35.8	59.0	64.7	28.2	26.1	50.3	42.3

MSMEG	MSMEG										
_6636	6597	K.AIWNVNWQDVQVR.F	2	562.2	593.3	504.3	523.8	439.7	423.2	376.4	362.1
		K.AIWNVNWQDVQVR.F	3	89.7	82.3	55.3	48.3	61.5	61.9	31.4	32.6
		K.NLSPHGGDKPTGDLAAAI									
		DDQFGSFDNFR.A	3	257.4	273.5	210.8	218.8	222.7	220.1	178.6	174.0
		K.NLSPHGGDKPTGDLAAAI									
		DDQFGSFDNFR.A	4	829.6	822.0	652.9	604.9	682.5	687.4	530.2	526.9
MSMEG	MSMEG										
_6638	6600	K.AVGGAVAPISR.L	2	0.1	0.1	0.0	0.0	0.6	1.0	0.0	0.0
		K.GM*LTGPVTILAWSFVR.D	2	37.2	46.5	15.3	26.9	55.2	77.9	13.1	21.4
		K.GMLTGPVTILAWSFVR.D	2	45.2	69.8	15.3	26.9	87.3	127.0	13.1	21.4
		K.GMLTGPVTILAWSFVR.D	3	0.9	4.2	0.0	0.0	4.8	11.4	0.0	0.0
		K.LQEDLG LDVLVHGEPER.									
		N	2	98.8	89.9	27.8	22.1	240.9	194.0	17.4	14.8
		K.LQEDLG LDVLVHGEPER.									
		N	3	303.7	284.3	78.2	70.5	695.2	497.8	95.2	63.2
		K.RPALFVASYFGE LTDALPA									
		LAR.T	3	217.5	296.9	166.3	228.4	347.7	515.8	106.6	197.9
		K.VTEVVALAR.G	2	1.9	1.7	0.0	0.0	8.8	8.8	0.1	0.0
		K.WFDTNYHYIVPELGPDTS									
		FALHPAK.V	4	8.5	8.1	5.8	6.7	18.9	23.1	5.3	5.5
		R.ALGIPARPVVVGPI TFLAL									
		SK.A	3	325.0	322.7	93.1	90.0	1249.5	1171.4	213.8	188.0
		R.DDQPLADTA AQVALAIR.D	2	196.1	161.8	56.0	53.2	397.2	196.7	72.9	51.8
		R.DDQPLADTA AQVALAIR.D	3	40.6	37.7	0.5	1.0	65.6	48.7	0.8	0.7
		R.EAIAGEIAASND AIAAR.K	2	638.5	593.7	243.5	220.0	1263.1	1290.5	285.4	270.4
		R.GGYDGT DIAPLEM*TK.W	2	48.4	42.3	50.4	39.3	87.2	68.8	40.8	32.5
		R.GGYDGT DIAPLEM TK.W	2	543.2	540.3	233.8	228.0	973.0	1021.0	233.1	224.4
		R.LGLPPLPTTIGSY PQTSA									
		IR.V	2	493.2	558.2	134.2	156.2	1045.4	1135.6	139.8	172.6

		R.LGTPLVIHQPSYSLLNR.W	3	226.0	216.5	253.2	263.7	134.9	136.2	282.9	259.4
		R.PTFDDDLVTDQVR.E	2	173.8	182.3	152.1	156.5	107.5	112.5	151.6	154.1
MSMEG	MSMEG	R.GDLVNYAGVAGDANPLH									
_6754	6715	WDENIAK.L	3	160.5	162.2	98.3	94.4	132.4	145.8	61.4	82.3
		R.LSQPAVVPAEGTEIEYSG									
		R.I	2	230.1	240.2	99.1	136.3	163.2	176.5	80.4	94.0
MSMEG	MSMEG	R.TAGLLPAIAAELDDEILLAR									
_6756	6717	.C	2	24.8	20.2	51.0	46.8	30.3	28.4	47.0	43.2
MSMEG	MSMEG	K.IQWILENVPGV.R.E	2	924.9	900.1	2431.6	2345.9	3642.6	3208.6	2918.5	2753.7
_6759	6720	K.IQWILENVPGV.R.E	3	27.2	19.5	29.7	22.7	160.1	147.0	28.9	34.2
		K.LQPSDLAALGVTNQR.E	2	2156.1	2218.6	3735.5	3781.1	7395.5	7365.3	4468.6	4460.5
		K.LQPSDLAALGVTNQR.E	3	142.2	138.2	186.7	172.2	646.0	612.5	259.0	250.4
		K.NTYGTGNFLLNTGTPV									
		R.S	2	1248.6	1298.1	2063.3	2062.3	3895.4	3932.4	2192.6	2288.3
		R.DQM*HVIDSAAESES LAR.									
		L	3	736.8	581.6	1304.8	1052.2	1553.8	1488.4	892.7	919.0
		R.DQM HVIDSAAESES LAR.L	2	682.4	635.0	1219.4	1181.9	1343.5	1475.1	774.4	845.3
		R.DQM HVIDSAAESES LAR.L	3	757.0	600.9	1327.7	1073.0	1584.9	1518.1	899.4	931.1
		R.DVAEAM*EADSGVHLDVL									
		K.V	2	172.1	214.0	298.5	301.5	239.8	234.2	232.0	218.0
		R.DVAEAMEADSGVHLDVLK									
		.V	2	420.5	403.5	298.5	301.5	678.9	570.0	232.0	218.0
		R.DVAEAMEADSGVHLDVLK									
		.V	3	71.1	73.5	123.8	122.9	330.5	232.4	104.2	79.7
		R.FMIFDHAGNEVAR.H	2	251.8	214.5	750.3	654.4	586.8	568.3	1347.4	1397.0
		R.LGDDAPVYALEGSIAVTG									
		SAVQWLR.D	3	64.7	57.5	97.9	101.3	227.9	230.3	96.9	114.8
		R.LVDDNGGVYFVPAFSGLF									
		APYWR.S	2	70.7	85.7	107.6	143.1	103.9	222.6	40.2	111.8
		R.LVDDNGGVYFVPAFSGLF									
		APYWR.S	3	75.4	101.6	84.3	127.6	102.3	210.3	28.7	94.1
		R.PGWVEHNPVEIWER.S	2	620.6	604.5	704.1	713.7	1505.2	1518.0	782.9	774.6
		R.PGWVEHNPVEIWER.S	3	710.7	665.9	909.2	847.7	2198.1	2413.3	881.9	1043.2

		R.SM*LPQIRPSSDPAGYGT									
		TTSSR.P	3	121.0	97.4	293.0	259.8	425.3	483.1	327.8	354.5
		R.SMLPQIRPSSDPAGYGT									
		TSSR.P	3	623.9	647.1	1039.1	1108.5	1339.7	1269.3	787.9	802.2
		R.SSSAVQSALNAAK.L	2	18.7	16.3	26.4	27.8	32.8	40.2	14.9	21.4
		R.TGRPYYYNAIVWQDTR.T	2	610.2	724.4	502.3	434.9	966.3	1112.2	571.2	622.8
		R.TGRPYYYNAIVWQDTR.T	3	478.7	462.6	318.5	216.9	929.5	992.4	443.0	496.3
MSMEG	MSMEG	R.EHAVASPVPGLTVIAGGK.									
_6761	6721	Y	2	41.2	54.2	31.3	42.1	129.0	144.7	25.5	37.8
		R.EHAVASPVPGLTVIAGGK.									
		Y	3	30.5	27.1	0.2	3.9	119.6	113.3	0.0	2.0
		R.EVADLIAPVLGWSQTDIA									
		R.E	2	26.7	29.4	7.6	9.5	52.1	48.0	1.0	6.2
		R.TAEDTGLAVTTVAHLLGR.									
		Y	3	17.2	18.0	0.6	1.4	45.2	34.5	0.3	0.0
		R.VPLLGADGYPAAWNAR.R	2	226.5	237.4	135.6	141.1	362.6	401.7	92.9	116.5
MSMEG	MSMEG	R.IWQIYADPR.Q	2	78.4	76.9	22.0	17.6	36.1	43.3	17.1	19.4
MSMEG	MSMEG	R.WLRAAGVDTTGAYSGMK									
_6776	6737	.Y	2	81.7	61.5	181.3	117.4	71.2	62.4	77.3	74.0
MSMEG	MSMEG	K.EWLGLEFDPQSASA AK.V	2	23.2	21.0	195.3	205.7	16.4	18.9	250.9	257.2
		K.IVIGGDNAGFNYK.E	2	13.5	0.0	49.5	0.0	10.7	13.5	55.5	37.4
MSMEG	MSMEG	K.FGEIC*RPDWIPEGTR.V	3	0.5	0.3	117.9	101.0	0.1	0.1	152.4	129.1
_6816	6779	K.LAYEYATTQPAAIR.Q	2	46.7	40.5	359.1	339.5	38.6	66.3	301.5	273.2
		K.SLFVYNSNPVSQGPAQEK									
		.T	2	141.6	181.9	530.3	542.7	53.2	99.0	411.2	483.7
		R.AITC*LPALVGAWR.H	2	2.2	1.5	121.9	123.9	2.9	1.4	149.3	120.3
		R.DDLFTVVSEHFITDTAK.F	2	8.1	8.4	223.7	218.5	3.3	5.1	189.9	158.1
		R.DDLFTVVSEHFITDTAK.F	3	0.2	0.0	69.7	61.8	0.0	0.1	83.7	46.5
		R.EMLIDFHWDAPALAGIT									
		YEK.L	3	7.5	3.5	102.2	146.4	3.4	3.4	78.2	96.1
		R.GSFQGPAAAYETGLIPGLV									
		MANVGHWQGK.T	3	2.4	2.0	279.5	226.7	0.9	2.3	226.7	320.3
		R.ITWDEALAEIK.T	2	0.2	0.1	186.3	165.3	0.0	0.3	242.9	171.0

		R.VEEITGIPADDVR.K	2	0.4	0.3	222.9	167.4	0.0	0.3	183.8	84.4
MSMEG _6822	MSMEG 6786	K.LFIADDLLLQESEGK.T	2	63.4	59.3	123.0	131.5	48.5	56.1	122.6	121.8
		R.FGIPDGLSGEAVAVK.Q	2	75.4	88.5	330.1	389.7	94.7	95.9	386.5	382.0
MSMEG _6854	MSMEG 6817	R.YLMAISSLDPSTSAGAAR.E	2	450.8	570.4	313.5	345.6	359.3	522.9	236.0	296.0
		R.KIDQAFIGSCANGQLDDL									
		R.I	2	71.5	80.5	1.6	1.5	44.1	60.9	0.7	1.1
		R.KIDQAFIGSCANGQLDDL									
		R.I	3	62.4	74.6	0.0	0.5	49.0	59.6	0.1	0.2
MSMEG _6875	MSMEG 6839	R.AAFDAIAQPGAVEPVK.V	2	71.0	71.4	102.1	115.8	30.0	32.6	70.0	112.0
MSMEG _6894	MSMEG 6855	K.LFGSVTAADVVAIK.K	2	660.7	842.1	475.0	620.1	619.3	655.5	465.4	453.3
		K.LFGSVTAADVVAIK.K	3	123.9	72.6	55.8	31.2	112.6	120.4	52.2	54.5
		K.LFGSVTAADVVAIKKA	2	23.8	21.9	5.0	7.4	36.9	33.8	12.8	4.7
		K.LFGSVTAADVVAIKKA	3	46.6	42.2	27.2	22.0	81.6	78.5	45.9	41.1
		K.LILTAEVEHLGAAGDTVEV									
		K.D	2	202.6	219.2	121.7	123.3	191.7	179.9	119.8	105.4
		K.LILTAEVEHLGAAGDTVEV									
		K.D	3	988.5	1136.7	655.6	738.3	1000.8	1067.5	753.3	649.3
		K.TALEGLGVDVTLCSVNAAGD									
		TGKL	2	250.1	222.2	133.6	105.2	237.7	238.3	129.4	120.7
		K.TALEGLGVDVTLCSVNAAGD									
		TGKL	3	58.3	0.0	27.6	0.0	92.0	80.0	47.3	33.8
MSMEG _6896	MSMEG 6857	K.DDPWGSAPASGSFSGAD									
		DEPPF	2	59.5	78.0	23.1	34.2	33.8	52.9	6.9	18.5
		R.EAAENVAESLTR.G	2	21.4	22.1	13.2	13.7	18.2	22.8	7.0	15.2
		R.FTPSGAAVANFTVASTPR.									
		M	2	800.0	840.1	478.2	501.6	766.0	812.5	575.6	569.7
		R.FTPSGAAVANFTVASTPR.									
		M	3	377.3	430.2	89.1	84.1	251.4	328.0	85.2	79.2
		R.TVVEVEVDEIGPSLR.Y	2	291.3	310.4	200.8	207.3	223.7	241.6	165.8	172.7
MSMEG _6897	MSMEG 6858	K.DGGTVDKVDIWR.R	3	3.2	0.5	1.7	0.7	9.9	9.8	2.7	4.7
		K.HAEGIYAVIDVK.A	2	33.6	31.8	13.2	14.9	41.7	32.9	19.3	15.5
		K.HAEGIYAVIDVK.A	3	13.5	10.5	9.0	5.2	18.8	15.2	7.9	7.9

		R.TVAPSLETFLNVIR.K	2	351.7	315.9	320.6	283.9	395.5	399.5	367.5	332.6
		R.TVAPSLETFLNVIR.K	3	28.1	17.3	16.7	9.1	28.2	29.9	16.2	16.8
MSMEG	MSMEG	K.IAKDRGIGGGPIEAASAYLM									
_6904	6866	#K.S	3	3.5	6.6	6.6	3.8	2.4	1.4	8.5	4.6
		K.KFEDAGVPIVGDDIK.S	2	418.2	454.3	248.7	283.3	441.6	443.1	259.2	273.4
		K.KFEDAGVPIVGDDIK.S	3	199.2	189.7	7.1	7.8	236.0	221.7	74.2	82.9
		K.LEVWDSPNSAGVIIDAVR.									
		A	2	381.0	381.4	253.8	267.8	446.9	480.1	177.0	272.1
		K.NVHIGPSDHVAWLDDR.K	2	161.1	175.8	24.7	19.4	126.1	130.0	14.7	32.8
		K.NVHIGPSDHVAWLDDR.K	3	143.7	122.9	3.2	4.2	116.6	125.9	0.1	3.9
		K.NVHIGPSDHVAWLDDR.K	4	84.4	57.4	0.8	0.0	66.2	65.2	0.0	0.5
		K.NVHIGPSDHVAWLDDR.K									
		W	4	13.7	1.0	0.3	0.0	145.7	131.4	0.5	0.0
		K.TQAVTSNLSGALAGK.V	2	153.1	135.3	98.2	116.3	161.6	148.1	53.4	75.9
		K.YYADTIEVSDAEPVDDVK.									
		V	2	725.9	766.7	122.0	165.0	993.3	994.1	163.9	207.6
		R.AFGDVPLNLEYKL	2	434.9	400.5	125.3	111.4	503.9	491.4	162.4	193.6
		R.GIGGPIEAASAYLMK.S	2	256.4	228.0	39.5	38.3	160.9	132.8	48.7	43.4
MSMEG	MSMEG										
_6907	6868	R.LDDLAAALPR.I	2	80.4	65.3	104.3	87.5	66.9	73.5	118.6	96.7
		R.LILGIGSGWK.Q	2	83.2	82.9	87.4	87.8	58.0	54.4	90.8	79.7
MSMEG	MSMEG										
_6913	6872	K.LSDEDLATLAR.A	2	11.2	0.0	12.9	0.0	11.1	12.1	9.2	9.9
MSMEG	MSMEG	K.FFWPGPDGEIEVNQEFGK									
_6917	6875	.I	2	162.8	145.0	133.3	112.2	133.9	128.9	146.4	135.7
		K.FFWPGPDGEIEVNQEFGK									
		.I	3	13.6	14.7	2.7	4.8	2.6	3.8	0.8	3.4
		K.NSVSPDEIC#DNYGADTL									
		R.V	2	14.1	15.2	26.2	26.7	7.7	7.3	20.5	20.8
		K.NSVSPDEIC*DNYGADTLR									
		.V	2	14.1	15.2	26.2	26.7	7.7	7.3	20.5	20.8
		K.TGVFLGAYATNPADGK.Q	2	284.9	285.8	207.4	219.5	264.3	262.2	254.3	235.3
		K.VLYDLGYVSSR.E	2	163.3	169.2	134.5	145.5	109.6	119.2	137.2	138.0

		R.EELAPMTPFER.K	2	82.6	90.7	39.5	45.6	68.7	72.8	36.3	42.6
		R.KGEVLDALQELTR.L	2	224.1	224.5	198.6	190.8	242.1	239.3	238.5	250.7
		R.KGEVLDALQELTR.L	3	62.1	57.4	18.2	14.7	61.2	54.3	18.3	18.0
		R.KIVHDAVAAIDGVR.S	2	32.6	35.9	8.9	10.2	55.7	49.9	22.5	19.5
		R.KIVHDAVAAIDGVR.S	3	86.8	82.8	22.1	24.4	99.3	113.1	37.2	37.3
MSMEG	MSMEG	K.YFSRPEPDTSDDDSNAVN									
_6947	6901	LNR.R	3	25.6	27.9	91.4	96.6	7.7	13.6	31.0	42.3
		R.LDVPDDVLELIASSIER.N	2	6.4	10.5	16.8	27.3	0.9	5.5	2.7	8.6