

Table S2

ONTOLOGY ID	Description	BgRatio
BP	GO:003277 positive regulation of interleukin-1 beta production	53/18866
BP	GO:003277 positive regulation of interleukin-1 production	60/18866
BP	GO:003266 regulation of interleukin-1 beta production	97/18866
BP	GO:003266 interleukin-1 beta production	106/18866
BP	GO:003266 regulation of interleukin-1 production	111/18866
BP	GO:007026 pyroptosis	12/18866
BP	GO:003266 interleukin-1 production	121/18866
BP	GO:200109 positive regulation of cysteine-type endopeptidase activity	151/18866
BP	GO:001099 positive regulation of endopeptidase activity	181/18866
BP	GO:001099 positive regulation of peptidase activity	201/18866
BP	GO:000181 positive regulation of cytokine production	447/18866
BP	GO:200011 regulation of cysteine-type endopeptidase activity	239/18866
BP	GO:004328 positive regulation of cysteine-type endopeptidase activity involved in apoptosis	134/18866
BP	GO:005109 positive regulation of NF-kappaB transcription factor activity	159/18866
BP	GO:000961 response to virus	349/18866
BP	GO:004586 positive regulation of proteolysis	370/18866
BP	GO:005254 regulation of endopeptidase activity	434/18866
BP	GO:004328 regulation of cysteine-type endopeptidase activity involved in apoptosis	215/18866
BP	GO:000691 activation of cysteine-type endopeptidase activity involved in apoptosis	86/18866
BP	GO:005254 regulation of peptidase activity	466/18866
BP	GO:005109 positive regulation of DNA-binding transcription factor activity	270/18866
BP	GO:007135 cellular response to tumor necrosis factor	297/18866
BP	GO:003461 response to tumor necrosis factor	320/18866
BP	GO:000959 detection of biotic stimulus	36/18866
BP	GO:004274 defense response to bacterium	348/18866
BP	GO:003326 tumor necrosis factor-mediated signaling pathway	173/18866
BP	GO:007134 cellular response to interferon-gamma	182/18866
BP	GO:003434 response to interferon-gamma	202/18866
BP	GO:005109 regulation of DNA-binding transcription factor activity	455/18866
BP	GO:007026 necrotic cell death	64/18866
BP	GO:007121 cellular response to biotic stimulus	246/18866
BP	GO:005166 defense response to virus	258/18866
BP	GO:006033 interferon-gamma-mediated signaling pathway	91/18866
BP	GO:005088 defense response to Gram-positive bacterium	99/18866
BP	GO:190379 negative regulation of production of miRNAs involved in gene silencing	14/18866
BP	GO:001604 detection of bacterium	17/18866
BP	GO:004454 NLRP3 inflammasome complex assembly	17/18866
BP	GO:005134 regulation of oxidoreductase activity	117/18866
BP	GO:190121 regulation of NIK/NF-kappaB signaling	119/18866
BP	GO:009854 detection of other organism	19/18866
BP	GO:006096 negative regulation of gene silencing by miRNA	20/18866
BP	GO:005106 positive regulation of nitric-oxide synthase activity	22/18866
BP	GO:003134 positive regulation of defense response	385/18866
BP	GO:003549 cellular response to interferon-beta	23/18866
BP	GO:006014 negative regulation of posttranscriptional gene silencing	23/18866
BP	GO:006096 negative regulation of gene silencing by RNA	23/18866
BP	GO:190379 regulation of production of miRNAs involved in gene silencing by miRNA	23/18866
BP	GO:009858 detection of external biotic stimulus	24/18866
BP	GO:007092 regulation of production of small RNA involved in gene silencing by RNA	25/18866
BP	GO:000281 regulation of response to biotic stimulus	409/18866

BP	GO:000961 response to salt stress	27/18866
BP	GO:000281 regulation of adaptive immune response	168/18866
BP	GO:003277 positive regulation of monooxygenase activity	31/18866
BP	GO:003541 response to interferon-beta	32/18866
BP	GO:200121 positive regulation of apoptotic signaling pathway	183/18866
BP	GO:003801 NIK/NF-kappaB signaling	184/18866
BP	GO:004311 positive regulation of I-kappaB kinase/NF-kappaB signaling	188/18866
BP	GO:006091 negative regulation of gene silencing	37/18866
BP	GO:190281 positive regulation of pri-miRNA transcription by RNA polymerase II	40/18866
BP	GO:007121 cellular response to lipopolysaccharide	208/18866
BP	GO:007121 cellular response to molecule of bacterial origin	222/18866
BP	GO:007021 necroptotic process	45/18866
BP	GO:000261 regulation of acute inflammatory response	49/18866
BP	GO:003511 production of miRNAs involved in gene silencing by miRNA	49/18866
BP	GO:009731 programmed necrotic cell death	50/18866
BP	GO:190281 regulation of pri-miRNA transcription by RNA polymerase II	51/18866
BP	GO:005091 regulation of nitric-oxide synthase activity	52/18866
BP	GO:006161 pri-miRNA transcription by RNA polymerase II	53/18866
BP	GO:000281 positive regulation of response to biotic stimulus	251/18866
BP	GO:004311 regulation of I-kappaB kinase/NF-kappaB signaling	252/18866
BP	GO:003101 dsRNA processing	54/18866
BP	GO:007091 production of small RNA involved in gene silencing by RNA	54/18866
BP	GO:003021 T cell differentiation	253/18866
BP	GO:005131 positive regulation of oxidoreductase activity	55/18866
BP	GO:004351 positive regulation of neuron apoptotic process	59/18866
BP	GO:006191 selective autophagy	61/18866
BP	GO:001081 regulation of tumor necrosis factor-mediated signaling pathway	62/18866
BP	GO:200031 regulation of endothelial cell apoptotic process	62/18866
BP	GO:200121 positive regulation of intrinsic apoptotic signaling pathway	62/18866
BP	GO:000721 I-kappaB kinase/NF-kappaB signaling	286/18866
BP	GO:009711 intrinsic apoptotic signaling pathway	290/18866
BP	GO:190211 regulation of leukocyte differentiation	290/18866
BP	GO:003271 regulation of monooxygenase activity	66/18866
BP	GO:007251 endothelial cell apoptotic process	68/18866
BP	GO:003561 cellular response to drug	71/18866
BP	GO:004501 regulation of innate immune response	307/18866
BP	GO:005061 cytokine secretion	72/18866
BP	GO:007141 cellular response to external stimulus	326/18866
BP	GO:007121 cellular response to mechanical stimulus	79/18866
BP	GO:190301 regulation of leukocyte cell-cell adhesion	329/18866
BP	GO:007121 cellular response to abiotic stimulus	331/18866
BP	GO:010401 cellular response to environmental stimulus	331/18866
BP	GO:190121 positive regulation of NIK/NF-kappaB signaling	80/18866
BP	GO:003241 response to lipopolysaccharide	334/18866
BP	GO:000271 regulation of cytokine production involved in immune response	83/18866
BP	GO:000691 response to osmotic stress	85/18866
BP	GO:003271 positive regulation of interleukin-6 production	88/18866
BP	GO:000221 response to molecule of bacterial origin	356/18866
BP	GO:000711 leukocyte cell-cell adhesion	364/18866
BP	GO:003201 negative regulation of NF-kappaB transcription factor activity	93/18866
BP	GO:003001 lymphocyte differentiation	368/18866

BP	GO:19040: regulation of epithelial cell apoptotic process	94/18866
BP	GO:00603: type I interferon signaling pathway	95/18866
BP	GO:00713: cellular response to type I interferon	95/18866
BP	GO:00971: execution phase of apoptosis	95/18866
BP	GO:00466: regulation of alpha-beta T cell activation	97/18866
BP	GO:19012: positive regulation of neuron death	97/18866
BP	GO:00343: response to type I interferon	99/18866
BP	GO:00326: interleukin-8 production	101/18866
BP	GO:00086: intrinsic apoptotic signaling pathway in response to DNA damage	103/18866
BP	GO:00023: cytokine production involved in immune response	104/18866
BP	GO:00028: positive regulation of adaptive immune response based on somatic recombination	105/18866
BP	GO:00027: positive regulation of lymphocyte mediated immunity	106/18866
BP	GO:00466: alpha-beta T cell differentiation	106/18866
BP	GO:20003: positive regulation of reactive oxygen species metabolic process	106/18866
BP	GO:00022: T cell activation involved in immune response	109/18866
BP	GO:00028: positive regulation of adaptive immune response	110/18866
BP	GO:20012: regulation of apoptotic signaling pathway	413/18866
BP	GO:00025: acute inflammatory response	111/18866
BP	GO:00507: regulation of inflammatory response	425/18866
BP	GO:00609: regulation of gene silencing by miRNA	116/18866
BP	GO:19040: epithelial cell apoptotic process	117/18866
BP	GO:00601: regulation of posttranscriptional gene silencing	120/18866
BP	GO:00609: regulation of gene silencing by RNA	120/18866
BP	GO:00224: regulation of cell-cell adhesion	439/18866
BP	GO:00510: negative regulation of DNA metabolic process	127/18866
BP	GO:19054: positive regulation of protein localization to membrane	127/18866
BP	GO:00026: regulation of immune effector process	470/18866
BP	GO:00513: negative regulation of hydrolase activity	473/18866
BP	GO:00027: positive regulation of leukocyte mediated immunity	138/18866
BP	GO:00463: positive regulation of JNK cascade	138/18866
BP	GO:00421: T cell activation	483/18866
BP	GO:00609: regulation of gene silencing	140/18866
BP	GO:00022: activation of innate immune response	144/18866
BP	GO:00027: regulation of production of molecular mediator of immune response	144/18866
BP	GO:19037: regulation of hemopoiesis	498/18866
BP	GO:00466: alpha-beta T cell activation	146/18866
BP	GO:00455: regulation of T cell differentiation	150/18866
BP	GO:00028: regulation of adaptive immune response based on somatic recombination	153/18866
BP	GO:00027: regulation of lymphocyte mediated immunity	154/18866
BP	GO:00001: activation of MAPK activity	156/18866
BP	GO:00326: regulation of interleukin-6 production	159/18866
BP	GO:19021: positive regulation of leukocyte differentiation	159/18866
BP	GO:00435: regulation of blood vessel endothelial cell migration	164/18866
BP	GO:20012: regulation of intrinsic apoptotic signaling pathway	166/18866
BP	GO:00326: interleukin-6 production	170/18866
BP	GO:00328: positive regulation of stress-activated MAPK cascade	170/18866
BP	GO:00703: positive regulation of stress-activated protein kinase signaling cascade	172/18866
CC	GO:00617: inflammasome complex	17/19559
MF	GO:00165: peptidase activator activity	40/18352
MF	GO:00507: CARD domain binding	16/18352
MF	GO:00086: cysteine-type endopeptidase activator activity involved in apoptotic process	17/18352

MF	GO:004283: peptidoglycan binding	18/18352
MF	GO:001650: peptidase activator activity involved in apoptotic process	20/18352
MF	GO:000202: protease binding	137/18352
MF	GO:004302: cysteine-type endopeptidase regulator activity involved in apoptotic process	43/18352
MF	GO:006113: peptidase regulator activity	229/18352
MF	GO:003097: receptor tyrosine kinase binding	72/18352
MF	GO:000554: phosphatidylinositol-4,5-bisphosphate binding	82/18352
MF	GO:199078: protein tyrosine kinase binding	98/18352
MF	GO:190293: phosphatidylinositol bisphosphate binding	119/18352
MF	GO:190198: phosphatidylinositol phosphate binding	179/18352
MF	GO:000103: TFIIID-class transcription factor complex binding	10/18352
MF	GO:009719: cysteine-type endopeptidase activity involved in apoptotic signaling pathway	10/18352
MF	GO:190162: cardiolipin binding	11/18352
MF	GO:000516: neurotrophin receptor binding	12/18352
MF	GO:008972: caspase binding	12/18352
MF	GO:009719: cysteine-type endopeptidase activity involved in apoptotic process	15/18352
MF	GO:190161: phosphatidylglycerol binding	15/18352
MF	GO:000553: glycosaminoglycan binding	232/18352
MF	GO:000109: RNA polymerase II general transcription initiation factor binding	19/18352
MF	GO:003509: phosphatidylinositol binding	262/18352
MF	GO:000512: cytokine receptor binding	271/18352
MF	GO:003818: pattern recognition receptor activity	23/18352
MF	GO:000443: phosphatidylinositol phospholipase C activity	26/18352
MF	GO:000462: phospholipase C activity	28/18352
MF	GO:003503: histone acetyltransferase binding	28/18352

pvalue	p.adjust	qvalue	geneID	Count
6.20E-13	7.52E-10	3.41E-10	NLRC4/AIM	6
1.35E-12	8.18E-10	3.71E-10	NLRC4/AIM	6
2.63E-11	1.06E-08	4.83E-09	NLRC4/AIM	6
4.53E-11	1.35E-08	6.14E-09	NLRC4/AIM	6
6.00E-11	1.35E-08	6.14E-09	NLRC4/AIM	6
6.69E-11	1.35E-08	6.14E-09	NLRC4/AIM	4
1.02E-10	1.76E-08	7.99E-09	NLRC4/AIM	6
3.90E-10	5.91E-08	2.68E-08	NLRC4/AIM	6
1.16E-09	1.57E-07	7.12E-08	NLRC4/AIM	6
2.19E-09	2.65E-07	1.20E-07	NLRC4/AIM	6
6.07E-09	6.25E-07	2.84E-07	NLRC4/AIM	7
6.19E-09	6.25E-07	2.84E-07	NLRC4/AIM	6
2.06E-08	1.92E-06	8.73E-07	NLRC4/TNI	5
4.87E-08	4.21E-06	1.91E-06	NLRC4/AIM	5
5.91E-08	4.77E-06	2.17E-06	AIM2/TNF _α	6
8.35E-08	6.32E-06	2.87E-06	NLRC4/AIM	6
2.14E-07	1.48E-05	6.71E-06	NLRC4/AIM	6
2.19E-07	1.48E-05	6.71E-06	NLRC4/TNI	5
2.79E-07	1.78E-05	8.08E-06	NLRC4/TNI	4
3.26E-07	1.97E-05	8.97E-06	NLRC4/AIM	6
6.78E-07	3.91E-05	1.78E-05	NLRC4/AIM	5
1.09E-06	5.98E-05	2.72E-05	AIM2/TNF _α	5
1.57E-06	8.25E-05	3.75E-05	AIM2/TNF _α	5
1.80E-06	9.10E-05	4.13E-05	NLRC4/NO	3
2.36E-06	0.000115	5.21E-05	NLRC4/TNI	5
4.58E-06	0.000213	9.69E-05	AIM2/TNF _α	4
5.60E-06	0.000251	0.000114	CASP1/IRF1	4
8.46E-06	0.000366	0.000166	CASP1/IRF1	4
8.75E-06	0.000366	0.000166	NLRC4/AIM	5
1.04E-05	0.00042	0.000191	TNF/GSDM	3
1.84E-05	0.000719	0.000327	TNF/CASP1	4
2.22E-05	0.00084	0.000381	AIM2/NLRI	4
3.00E-05	0.001101	0.0005	IRF1/IRF2/	3
3.86E-05	0.001375	0.000624	TNF/NOD1	3
3.97E-05	0.001375	0.000624	TNF/TP53	2
5.93E-05	0.001941	0.000882	NLRC4/NO	2
5.93E-05	0.001941	0.000882	AIM2/NLRI	2
6.35E-05	0.002027	0.000921	TNF/NOD1	3
6.68E-05	0.002077	0.000943	TNF/NOD1	3
7.45E-05	0.002256	0.001025	NLRC4/NO	2
8.27E-05	0.002445	0.00111	TNF/TP53	2
0.0001	0.002836	0.001288	TNF/NOD1	2
0.000106	0.002836	0.001288	NLRC4/AIM	4
0.00011	0.002836	0.001288	AIM2/IRF1	2
0.00011	0.002836	0.001288	TNF/TP53	2
0.00011	0.002836	0.001288	TNF/TP53	2
0.00011	0.002836	0.001288	TNF/TP53	2
0.00012	0.003029	0.001376	NLRC4/NO	2
0.00013	0.003224	0.001464	TNF/TP53	2
0.000133	0.00323	0.001467	NLRC4/AIM	4

0.000152	0.003621	0.001645	TNF/TP53	2
0.000186	0.00433	0.001967	TNF/NLRP3	3
0.000202	0.004609	0.002093	TNF/NOD1	2
0.000215	0.004823	0.002191	AIM2/IRF1	2
0.000239	0.005257	0.002388	TNF/GSDM	3
0.000243	0.005257	0.002388	TNF/NOD1	3
0.000259	0.005502	0.002499	TNF/CASP1	3
0.000288	0.006018	0.002733	TNF/TP53	2
0.000337	0.00692	0.003143	TNF/TP53	2
0.000348	0.007034	0.003195	TNF/CASP1	3
0.000421	0.008342	0.003789	TNF/CASP1	3
0.000427	0.008342	0.003789	TNF/TP53	2
0.000506	0.009585	0.004354	TNF/NLRP3	2
0.000506	0.009585	0.004354	TNF/TP53	2
0.000527	0.009827	0.004464	TNF/TP53	2
0.000548	0.010069	0.004574	TNF/TP53	2
0.00057	0.010245	0.004654	TNF/NOD1	2
0.000592	0.010245	0.004654	TNF/TP53	2
0.000603	0.010245	0.004654	NLRC4/AIM2	3
0.00061	0.010245	0.004654	TNF/CASP1	3
0.000615	0.010245	0.004654	TNF/TP53	2
0.000615	0.010245	0.004654	TNF/TP53	2
0.000617	0.010245	0.004654	NLRP3/IRF1	3
0.000638	0.010443	0.004744	TNF/NOD1	2
0.000734	0.011854	0.005384	TNF/TP53	2
0.000784	0.012423	0.005643	NOD1/TP53	2
0.00081	0.012423	0.005643	TNF/CASP1	2
0.00081	0.012423	0.005643	TNF/PLCG1	2
0.00081	0.012423	0.005643	GSDME/TP53	2
0.000881	0.013346	0.006062	TNF/CASP1	3
0.000917	0.013392	0.006083	TNF/GSDM	3
0.000917	0.013392	0.006083	TNF/NLRP3	3
0.000917	0.013392	0.006083	TNF/NOD1	2
0.000973	0.014042	0.006378	TNF/PLCG1	2
0.00106	0.01512	0.006868	AIM2/TP53	2
0.001081	0.015189	0.006899	NLRC4/AIM2	3
0.00109	0.015189	0.006899	TNF/NLRP3	2
0.001286	0.017512	0.007954	CASP1/IRF1	3
0.001311	0.017512	0.007954	CASP1/IRF1	2
0.00132	0.017512	0.007954	TNF/NLRP3	3
0.001343	0.017512	0.007954	CASP1/IRF1	3
0.001343	0.017512	0.007954	CASP1/IRF1	3
0.001344	0.017512	0.007954	TNF/NOD1	2
0.001379	0.017774	0.008073	TNF/CASP1	3
0.001445	0.01844	0.008376	TNF/NLRP3	2
0.001515	0.019128	0.008689	TNF/TP53	2
0.001623	0.020276	0.00921	TNF/NOD1	2
0.001656	0.020475	0.0093	TNF/CASP1	3
0.001764	0.0216	0.009811	TNF/NLRP3	3
0.00181	0.021788	0.009897	AIM2/NLRP3	2
0.00182	0.021788	0.009897	NLRP3/IRF1	3

0.001849	0.021788	0.009897	TNF/PLCG1	2
0.001888	0.021788	0.009897	IRF1/IRF2	2
0.001888	0.021788	0.009897	IRF1/IRF2	2
0.001888	0.021788	0.009897	CASP1/TP5	2
0.001967	0.022278	0.01012	NLRP3/IRF	2
0.001967	0.022278	0.01012	TNF/TP53	2
0.002048	0.022979	0.010438	IRF1/IRF2	2
0.00213	0.023683	0.010758	TNF/NOD1	2
0.002214	0.024393	0.01108	TNF/TP53	2
0.002256	0.024637	0.011191	TNF/NLRP3	2
0.002299	0.024689	0.011214	TNF/NLRP3	2
0.002343	0.024689	0.011214	TNF/NLRP3	2
0.002343	0.024689	0.011214	NLRP3/IRF	2
0.002343	0.024689	0.011214	TNF/TP53	2
0.002475	0.025858	0.011745	NLRP3/TP5	2
0.00252	0.025982	0.011802	TNF/NLRP3	2
0.00253	0.025982	0.011802	TNF/GSDM	3
0.002565	0.026124	0.011866	TNF/NLRP3	2
0.002744	0.027714	0.012588	TNF/CASP1	3
0.002797	0.028015	0.012725	TNF/TP53	2
0.002844	0.028258	0.012835	TNF/PLCG1	2
0.002989	0.029165	0.013247	TNF/TP53	2
0.002989	0.029165	0.013247	TNF/TP53	2
0.003008	0.029165	0.013247	TNF/NLRP3	3
0.003341	0.031881	0.014481	GZMA/TP5	2
0.003341	0.031881	0.014481	TNF/TP53	2
0.003647	0.034535	0.015687	AIM2/TNF,	3
0.003713	0.034887	0.015847	TNF/GZMA	3
0.00393	0.036163	0.016426	TNF/NLRP3	2
0.00393	0.036163	0.016426	TNF/NOD1	2
0.003939	0.036163	0.016426	NLRP3/IRF	3
0.004042	0.036835	0.016732	TNF/TP53	2
0.004271	0.038248	0.017374	NLRC4/AIM	2
0.004271	0.038248	0.017374	TNF/NLRP3	2
0.004292	0.038248	0.017374	TNF/NLRP3	3
0.004387	0.038812	0.017629	NLRP3/IRF	2
0.004624	0.040615	0.018448	NLRP3/IRF	2
0.004806	0.041908	0.019036	TNF/NLRP3	2
0.004868	0.04214	0.019141	TNF/NLRP3	2
0.004991	0.042905	0.019489	TNF/NOD1	2
0.00518	0.043902	0.019942	TNF/NOD1	2
0.00518	0.043902	0.019942	TNF/NLRP3	2
0.005501	0.046301	0.021031	TNF/PLCG1	2
0.005632	0.047077	0.021384	GSDME/TP	2
0.005899	0.048633	0.022091	TNF/NOD1	2
0.005899	0.048633	0.022091	TNF/NOD1	2
0.006034	0.049413	0.022445	TNF/NOD1	2
2.78E-10	1.11E-08	9.36E-09	NLRC4/AIM	4
2.70E-06	0.000189	6.83E-05	NLRC4/CA	3
5.53E-05	0.001223	0.000441	CASP1/NO	2
6.26E-05	0.001223	0.000441	CASP1/NO	2

7.04E-05	0.001223	0.000441	NOD1/NLR	2
8.74E-05	0.001223	0.000441	CASP1/NO	2
0.00011	0.001286	0.000464	NLRC4/TNI	3
0.000411	0.004115	0.001485	CASP1/NO	2
0.0005	0.004375	0.001579	NLRC4/CA	3
0.001151	0.008955	0.003232	PLCG1/TPE	2
0.00149	0.01043	0.003764	GSDMC/G	2
0.002119	0.013483	0.004866	PLCG1/TPE	2
0.003104	0.018105	0.006534	GSDMC/G	2
0.006876	0.032939	0.011888	GSDMC/G	2
0.007063	0.032939	0.011888	TP53	1
0.007063	0.032939	0.011888	CASP1	1
0.007767	0.032939	0.011888	GSDME	1
0.00847	0.032939	0.011888	PLCG1	1
0.00847	0.032939	0.011888	NLRC4	1
0.010577	0.03702	0.01336	CASP1	1
0.010577	0.03702	0.01336	GSDME	1
0.011323	0.037744	0.013622	NOD1/NLR	2
0.01338	0.042573	0.015365	TP53	1
0.014276	0.04345	0.015681	GSDMC/G	2
0.015221	0.044395	0.016022	TNF/PLCG1	2
0.016176	0.045292	0.016346	NOD1	1
0.018268	0.04915	0.017738	PLCG1	1
0.01966	0.04915	0.017738	PLCG1	1
0.01966	0.04915	0.017738	TP53	1

ID	Description	BgRatio	pvalue	p.adjust	qvalue
hsa05131	Shigellosis	247/8111	2.48E-09	3.15E-07	2.06E-07
hsa05133	Pertussis	76/8111	1.54E-08	9.75E-07	6.39E-07
hsa04621	NOD-like receptor signaling pathway	185/8111	2.53E-08	1.07E-06	7.01E-07
hsa05135	Yersinia infection	137/8111	3.01E-07	9.55E-06	6.26E-06
hsa05417	Lipid and atherosclerosis	215/8111	2.83E-06	7.18E-05	4.70E-05
hsa04625	C-type lectin receptor signaling pathway	104/8111	5.05E-06	0.000106	6.91E-05
hsa05132	Salmonella infection	249/8111	5.82E-06	0.000106	6.91E-05
hsa05134	Legionellosis	57/8111	3.81E-05	0.000605	0.000396
hsa05171	Coronavirus disease - COVID-19	232/8111	0.00012	0.001688	0.001105
hsa04217	Necroptosis	159/8111	0.000802	0.010181	0.006667
hsa05164	Influenza A	172/8111	0.001008	0.011634	0.007618
hsa05130	Pathogenic Escherichia coli infection	197/8111	0.001493	0.015799	0.010345
hsa05205	Proteoglycans in cancer	205/8111	0.001674	0.016358	0.010711
hsa04623	Cytosolic DNA-sensing pathway	63/8111	0.002567	0.023286	0.015247
hsa04664	Fc epsilon RI signaling pathway	68/8111	0.002984	0.024949	0.016336
hsa05120	Epithelial cell signaling in Helicobacter pylori	70/8111	0.00316	0.024949	0.016336
hsa05223	Non-small cell lung cancer	72/8111	0.00334	0.024949	0.016336
hsa05214	Glioma	75/8111	0.003619	0.025531	0.016718
hsa04933	AGE-RAGE signaling pathway in diabetic com	100/8111	0.006349	0.039556	0.025901
hsa05165	Human papillomavirus infection	331/8111	0.006525	0.039556	0.025901
hsa04064	NF-kappa B signaling pathway	104/8111	0.006852	0.039556	0.025901
hsa04660	T cell receptor signaling pathway	104/8111	0.006852	0.039556	0.025901
hsa04668	TNF signaling pathway	112/8111	0.007911	0.043202	0.028288
hsa05014	Amyotrophic lateral sclerosis	365/8111	0.008562	0.043202	0.028288
hsa04071	Sphingolipid signaling pathway	119/8111	0.008894	0.043202	0.028288
hsa04722	Neurotrophin signaling pathway	119/8111	0.008894	0.043202	0.028288
hsa04919	Thyroid hormone signaling pathway	121/8111	0.009185	0.043202	0.028288
hsa04650	Natural killer cell mediated cytotoxicity	131/8111	0.010702	0.04854	0.031783

geneID	Count
58484/712	7
7124/834/	5
58484/944	6
58484/712	5
7124/834/	5
7124/834/	4
58484/712	5
58484/712	3
7124/834/	4
7124/834/	3
7124/834/	3
7124/834/	3
7124/5335	3
9447/834	2
7124/5335	2
10392/533	2
5335/7157	2
5335/7157	2
7124/5335	2
7124/3659	3
7124/5335	2
7124/5335	2
7124/3659	2
7124/834/	3
7124/7157	2
5335/7157	2
5335/7157	2
7124/5335	2