

**Table S1. The list of DEGs with significant H3K9ac and HDAC3 enrichments.**

<b>GeneName</b>	<b>Annotation</b>
AL731706.1	novel protein
Sspo	SCO-spondin
Gm45785	predicted gene 45785
Mettl7b	methyltransferase like 7B
Fgf21	fibroblast growth factor 21
Npcd	neuronal pentraxin chromo domain
Neurod2	neuronal differentiation 2
Trem3	triggering receptor expressed on myeloid cells 3
Kif21b	kinesin family member 21B
Cass4	Cas scaffolding protein family member 4
Gm44973	predicted gene 44973
Rec114	REC114 meiotic recombination protein
Adm2	adrenomedullin 2
Olf996	olfactory receptor 996
Igf2bp3	insulin-like growth factor 2 mRNA binding protein 3
C2cd4c	C2 calcium-dependent domain containing 4C
G0s2	G0/G1 switch gene 2
Rad21l	RAD21-like ( <i>S. pombe</i> )
Rdh9	retinol dehydrogenase 9
Cdk15	cyclin-dependent kinase 15
Nyx	nyctalopin
P2rx7	purinergic receptor P2X, ligand-gated ion channel, 7
Bdkrb2	bradykinin receptor, beta 2
Calcb	calcitonin-related polypeptide, beta
Gm13539	predicted gene 13539
Gm10378	predicted gene 10378
Vmn1r34	vomer nasal 1 receptor 34
Vmn1r32	vomer nasal 1 receptor 32
Aknad1	AKNA domain containing 1
Fut1	fucosyltransferase 1
Entpd2	ectonucleoside triphosphate diphosphohydrolase 2
Lcp2	lymphocyte cytosolic protein 2
Mef2b	myocyte enhancer factor 2B
Gpnmb	glycoprotein (transmembrane) nmb
Nnmt	nicotinamide N-methyltransferase
Calcr1	calcitonin receptor-like
Sf3b4	splicing factor 3b, subunit 4
Adgrd1	adhesion G protein-coupled receptor D1
Elfn2	leucine rich repeat and fibronectin type III, extracellular 2
1810010D01Rik	RIKEN cDNA 1810010D01 gene
Slc19a3	solute carrier family 19, member 3
Tyrobp	TYRO protein tyrosine kinase binding protein
Trib3	tribbles pseudokinase 3
Mcidas	multiciliate differentiation and DNA synthesis associated cell cycle protein
Dcn	decorin
Bex4	brain expressed X-linked 4
Gm9936	predicted gene 9936
Chst4	carbohydrate sulfotransferase 4
Tac4	tachykinin 4
Bglap3	bone gamma-carboxyglutamate protein 3

Arap3	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 3
Pvrig	poliovirus receptor related immunoglobulin domain containing
4930583I09Rik	RIKEN cDNA 4930583I09 gene
Nmrk2	nicotinamide riboside kinase 2
Mfsd4b1	major facilitator superfamily domain containing 4B1
Ephx4	epoxide hydrolase 4
Hpd	4-hydroxyphenylpyruvic acid dioxygenase
Gm21985	predicted gene 21985
Crp	C-reactive protein, pentraxin-related
Gm266	predicted gene 266
Gm21983	predicted gene 21983
Dennd2d	DENN/MADD domain containing 2D
Pcsk9	proprotein convertase subtilisin/kexin type 9
Fgfr1	fibroblast growth factor receptor-like 1
Pla2g2e	phospholipase A2, group IIE
Cfap52	cilia and flagella associated protein 52
Gm49711	predicted gene, 49711
Aqp8	aquaporin 8
Cyp2b13	cytochrome P450, family 2, subfamily b, polypeptide 13
Gprc5d	G protein-coupled receptor, family C, group 5, member D
Lrrc74b	leucine rich repeat containing 74B
Pdzd7	PDZ domain containing 7
Kctd16	potassium channel tetramerisation domain containing 16
Aloxe3	arachidonate lipoxygenase 3
Vmn1r33	vomer nasal 1 receptor 33
1700001J03Rik	RIKEN cDNA 1700001J03 gene
Taf7l	TATA-box binding protein associated factor 7 like
Inhbe	inhibin beta-E
4930524B15Rik	RIKEN cDNA 4930524B15 gene
Zfp185	zinc finger protein 185
Mkrn2os	makorin, ring finger protein 2, opposite strand
Cth	cystathionase (cystathionine gamma-lyase)
Gpr160	G protein-coupled receptor 160
Mfsd4b3	major facilitator superfamily domain containing 4B3
Gm19345	predicted gene, 19345
Ces5a	carboxylesterase 5A
BC048671	cDNA sequence BC048671
Lcp1	lymphocyte cytosolic protein 1
1700123K08Rik	RIKEN cDNA 1700123K08 gene
Il1rn	interleukin 1 receptor antagonist
Ceacam16	carcinoembryonic antigen-related cell adhesion molecule 16
Spaca9	sperm acrosome associated 9
A730049H05Rik	RIKEN cDNA A730049H05 gene
Cmah	cytidine monophospho-N-acetylneuraminic acid hydroxylase
Sigirr	single immunoglobulin and toll-interleukin 1 receptor (TIR) domain
Hvcn1	hydrogen voltage-gated channel 1
Hrk	harakiri, BCL2 interacting protein (contains only BH3 domain)
Plag1	pleiomorphic adenoma gene 1
Pnma5	paraneoplastic antigen family 5
Tmc3	transmembrane channel-like gene family 3
Cox6a2	cytochrome c oxidase subunit 6A2
Stc2	stanniocalcin 2

Ncf4	neutrophil cytosolic factor 4
Irx1	Iroquois homeobox 1
Wt1	Wilms tumor 1 homolog
Fam129a	family with sequence similarity 129, member A
Steap1	six transmembrane epithelial antigen of the prostate 1
Gbx1	gastrulation brain homeobox 1
Apobec1	apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1
Ddit3	DNA-damage inducible transcript 3
Ostn	osteocrin
Cfap58	cilia and flagella associated protein 58
Itgb2	integrin beta 2
Ceacam3	carcinoembryonic antigen-related cell adhesion molecule 3
1700016K19Rik	RIKEN cDNA 1700016K19 gene
Gm43738	predicted gene 43738
Odf3l1	outer dense fiber of sperm tails 3-like 1
Th	tyrosine hydroxylase
Gpr65	G-protein coupled receptor 65
Olfir692	olfactory receptor 692
Atf3	activating transcription factor 3
Atp2a3	ATPase, Ca <sup>++</sup> transporting, ubiquitous
Cd27	CD27 antigen
Creb5	cAMP responsive element binding protein 5
Slc7a11	solute carrier family 7 (cationic amino acid transporter, y <sup>+</sup> system), member 11
Ptpn18	protein tyrosine phosphatase, non-receptor type 18
Scd4	stearoyl-coenzyme A desaturase 4
Ascl3	achaete-scute family bHLH transcription factor 3
Angptl6	angiopoietin-like 6
Bpifb6	BPI fold containing family B, member 6
Nupr1	nuclear protein transcription regulator 1
Rab3il1	RAB3A interacting protein (rabin3)-like 1
Olfir1507	olfactory receptor 1507
Lrrc10	leucine rich repeat containing 10
Itk	IL2 inducible T cell kinase
Rorc	RAR-related orphan receptor gamma
Gfral	GDNF family receptor alpha like
Ascl2	achaete-scute family bHLH transcription factor 2
Pheta2	PH domain containing endocytic trafficking adaptor 2
Slc6a9	solute carrier family 6 (neurotransmitter transporter, glycine), member 9
Il2rb	interleukin 2 receptor, beta chain
Reep6	receptor accessory protein 6
Ugt3a2	UDP glycosyltransferases 3 family, polypeptide A2
Foxb2	forkhead box B2
Samsn1	SAM domain, SH3 domain and nuclear localization signals, 1
Ncmap	noncompact myelin associated protein
Aph1c	aph1 homolog C, gamma secretase subunit
Fibcd1	fibrinogen C domain containing 1
Klf15	Kruppel-like factor 15
Scel	sciellin
Zfp13	zinc finger protein 13
Bhmt2	betaine-homocysteine methyltransferase 2
Odf3	outer dense fiber of sperm tails 3
Gm648	predicted gene 648

Fam84b	family with sequence similarity 84, member B
Rora	RAR-related orphan receptor alpha
Fasl	Fas ligand (TNF superfamily, member 6)
Gpr132	G protein-coupled receptor 132
Olf1349	olfactory receptor 1349
Pnpla3	patatin-like phospholipase domain containing 3
Htr3b	5-hydroxytryptamine (serotonin) receptor 3B
Mvd	mevalonate (diphospho) decarboxylase
Gch1	GTP cyclohydrolase 1
Btc	betacellulin, epidermal growth factor family member
Aqp9	aquaporin 9
Drp2	dystrophin related protein 2
Nos2	nitric oxide synthase 2, inducible
Fa2h	fatty acid 2-hydroxylase
Vcam1	vascular cell adhesion molecule 1
Gypa	glycophorin A
Csf2ra	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)
Aqp7	aquaporin 7
Tnk1	tyrosine kinase, non-receptor, 1
Olah	oleoyl-ACP hydrolase
Traf3ip3	TRAF3 interacting protein 3
Cdsn	corneodesmosin
Ptpn14	protein tyrosine phosphatase, non-receptor type 14
Celsr1	cadherin, EGF LAG seven-pass G-type receptor 1
Rhod	ras homolog family member D
Apol10b	apolipoprotein L 10B
Slc52a3	solute carrier protein family 52, member 3
4833423E24Rik	RIKEN cDNA 4833423E24 gene
AA467197	expressed sequence AA467197
Foxr1	forkhead box R1
Krt78	keratin 78
Hepacam	hepatocyte cell adhesion molecule
Pi16	peptidase inhibitor 16
Slc1a7	solute carrier family 1 (glutamate transporter), member 7
Dtna	dystrobrevin alpha
Fgb	fibrinogen beta chain
Grid2ip	glutamate receptor, ionotropic, delta 2 (Grid2) interacting protein 1
Zmynd10	zinc finger, MYND domain containing 10
Zcchc24	zinc finger, CCHC domain containing 24
Acox2	acyl-Coenzyme A oxidase 2, branched chain
Pdgfb	platelet derived growth factor, B polypeptide
Gm15319	predicted gene 15319
Dlg2	discs large MAGUK scaffold protein 2
Calca	calcitonin/calcitonin-related polypeptide, alpha
Fam50b	family with sequence similarity 50, member B
Entpd3	ectonucleoside triphosphate diphosphohydrolase 3
Eln	elastin
Sowahb	soyondowah ankyrin repeat domain family member B
Gif	gastric intrinsic factor
Fn3k	fructosamine 3 kinase
Plch2	phospholipase C, eta 2
Fam107a	family with sequence similarity 107, member A

Isg20	interferon-stimulated protein
Insrr	insulin receptor-related receptor
Rspo1	R-spondin 1
Sh2d3c	SH2 domain containing 3C
Dhh	desert hedgehog
Gm28035	predicted gene, 28035
Mettl27	methyltransferase like 27
Hmx3	H6 homeobox 3
Nrap	nebulin-related anchoring protein
Muc20	mucin 20
6030468B19Rik	RIKEN cDNA 6030468B19 gene
Gpr171	G protein-coupled receptor 171
Cpt1b	carnitine palmitoyltransferase 1b, muscle
Pkd11	polycystic kidney disease 1 like 1
Rdh16	retinol dehydrogenase 16
Fibin	fin bud initiation factor homolog (zebrafish)
Cracr2a	calcium release activated channel regulator 2A
Aldob	aldolase B, fructose-bisphosphate
Vipr2	vasoactive intestinal peptide receptor 2
Hgf	hepatocyte growth factor
Trim66	tripartite motif-containing 66
Mib2	mindbomb E3 ubiquitin protein ligase 2
Pkdrej	polycystin (PKD) family receptor for egg jelly
Gucy2e	guanylate cyclase 2e
Vrtn	vertebrae development associated
Maff	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein F (avian)
Ifi44	interferon-induced protein 44
Enpp6	ectonucleotide pyrophosphatase/phosphodiesterase 6
Rgs8	regulator of G-protein signaling 8
Gabbr2	gamma-aminobutyric acid (GABA) C receptor, subunit rho 2
Rsph4a	radial spoke head 4 homolog A (Chlamydomonas)
Sdk2	sidekick cell adhesion molecule 2
Dll4	delta like canonical Notch ligand 4
Adtrp	androgen dependent TFPI regulating protein
Hmgcs1	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1
Lipc	lipase, hepatic
Tuba3a	tubulin, alpha 3A
N4bp2l1	NEDD4 binding protein 2-like 1
Sh3tc1	SH3 domain and tetratricopeptide repeats 1
Prlr	prolactin receptor
Lss	lanosterol synthase
Tnfrsf13c	tumor necrosis factor receptor superfamily, member 13c
Trpv1	transient receptor potential cation channel, subfamily V, member 1
Gm10439	predicted gene 10439
Olf330	olfactory receptor 330
Fgfr4	fibroblast growth factor receptor 4
Zfp773	zinc finger protein 773
Ifnlr1	interferon lambda receptor 1
Gypc	glycophorin C
Rbpjl	recombination signal binding protein for immunoglobulin kappa J region-like
Eno2	enolase 2, gamma neuronal
Syt2	synaptotagmin II

Atp4a	ATPase, H <sup>+</sup> /K <sup>+</sup> exchanging, gastric, alpha polypeptide
Styx1l	serine/threonine/tyrosine interacting-like 1
Ppargc1a	peroxisome proliferative activated receptor, gamma, coactivator 1 alpha
Sftpb	surfactant associated protein B
Samd4	sterile alpha motif domain containing 4
Ciart	circadian associated repressor of transcription
Nectin4	nectin cell adhesion molecule 4
Ntrk3	neurotrophic tyrosine kinase, receptor, type 3
Drc1	dynein regulatory complex subunit 1
Gad1	glutamate decarboxylase 1
Cplx3	complexin 3
Ppp1r15a	protein phosphatase 1, regulatory subunit 15A
Rnf43	ring finger protein 43
Grhl2	grainyhead like transcription factor 2
Vsig1	V-set and immunoglobulin domain containing 1
Olfir5	olfactory receptor 5
Soat2	sterol O-acyltransferase 2
Chac1	ChaC, cation transport regulator 1
Cd164l2	CD164 sialomucin-like 2
Gramd2	GRAM domain containing 2
Apobr	apolipoprotein B receptor
Tnfrsf22	tumor necrosis factor receptor superfamily, member 22
F3	coagulation factor III
Slco1b2	solute carrier organic anion transporter family, member 1b2
Idi1	isopentenyl-diphosphate delta isomerase
Olfir1508	olfactory receptor 1508
Hhip1l	hedgehog interacting protein-like 1
Atp6v1b1	ATPase, H <sup>+</sup> transporting, lysosomal V1 subunit B1
Ldlr	low density lipoprotein receptor
Shpk	sedoheptulokinase

























Class	RNA-seq						Control_1	Control_2
	Control_1	Control_2	TN_1	TN_2	CBZ_1	CBZ_2		
protein_coding	0.12	0.13	33.36	19.04	72.76	75.76	0.00	0.38
protein_coding	15.56	27.52	10.47	5.86	1.27	4.59	2.64	0.37
protein_coding	0.51	0.14	7.37	20.04	42.51	41.01	0.02	3.02
protein_coding	0.52	0.15	5.71	9.84	16.16	23.18	0.04	3.51
protein_coding	0.15	0.53	6.12	6.49	9.02	28.06	0.05	7.39
protein_coding	0.21	0.37	7.49	3.64	15.45	25.02	0.05	3.69
protein_coding	29.22	71.34	0.37	2.04	1.25	3.85	0.02	11.65
protein_coding	8.81	5.55	3.57	3.24	1.11	1.42	2.11	2.41
protein_coding	0.24	0.38	3.41	3.26	4.12	11.65	0.09	1.52
protein_coding	0.39	0.78	3.82	2.82	11.28	13.98	0.18	2.32
protein_coding	0.35	0.12	2.12	3.21	10.81	6.37	0.09	0.08
protein_coding	1.29	1.88	3.84	3.32	8.55	11.46	0.44	0.39
protein_coding	0.78	0.37	2.23	2.93	9.43	5.09	0.22	1.27
protein_coding	0.13	0.38	0.67	4.03	14.16	4.93	0.11	1.36
protein_coding	2.65	2.93	6.79	5.78	14.39	17.83	0.44	8.65
protein_coding	45.35	43.84	5.86	9.39	22.30	20.72	2.07	1.63
protein_coding	0.80	0.42	9.88	8.85	28.66	25.21	0.07	0.89
protein_coding	0.37	0.43	2.26	1.85	7.63	6.60	0.20	0.55
protein_coding	0.37	0.55	3.08	1.94	4.29	12.30	0.18	2.46
protein_coding	0.75	0.14	8.70	5.11	25.75	21.62	0.06	1.51
protein_coding	0.19	0.87	1.78	1.39	3.72	4.12	0.33	7.58
protein_coding	3.13	3.83	1.11	1.65	0.37	0.31	2.52	9.62
protein_coding	1.12	0.78	17.52	1.22	37.39	40.12	0.10	7.76
protein_coding	3.15	4.70	42.48	0.53	2.20	3.98	0.10	10.13
protein_coding	2.79	2.43	5.22	1.74	7.22	3.92	0.07	3.12
protein_coding	1.26	0.12	2.46	1.91	5.91	7.83	0.32	11.17
protein_coding	1.13	0.87	2.88	15.10	38.14	31.49	0.11	12.76
protein_coding	53.37	49.93	16.61	18.76	5.65	5.13	2.92	1.01
protein_coding	0.82	0.53	2.12	0.75	1.80	7.94	0.47	13.81
protein_coding	0.73	0.64	1.33	1.52	1.41	4.91	0.48	4.70
protein_coding	0.37	0.51	0.33	2.32	7.46	5.94	0.33	2.43
protein_coding	7.05	4.23	42.93	26.72	92.95	103.47	0.16	1.97
protein_coding	0.21	1.21	1.98	0.67	3.34	5.19	0.54	13.92
protein_coding	0.14	4.12	4.54	5.68	13.14	14.31	0.42	1.41
protein_coding	0.35	0.21	1.63	1.01	5.19	4.95	0.21	2.95
protein_coding	6.06	3.87	11.92	13.81	22.78	34.64	0.39	1.37
protein_coding	5.07	5.82	0.73	0.36	2.30	0.78	0.35	0.34
protein_coding	0.83	0.38	1.85	0.54	4.05	10.22	0.51	3.80
protein_coding	1.87	2.24	23.77	20.28	46.99	55.09	0.09	1.31
protein_coding	3.64	4.59	36.95	51.31	2.05	9.09	0.09	17.56
protein_coding	0.67	0.87	0.91	0.61	1.69	2.49	1.02	0.65
protein_coding	6.33	0.93	9.84	57.62	333.16	361.44	0.11	45.33
protein_coding	70.23	70.25	33.09	33.39	15.32	16.13	2.11	5.97
protein_coding	1.37	2.35	1.40	0.61	2.18	4.81	1.85	3.98
protein_coding	0.34	0.37	1.56	0.27	3.84	10.30	0.39	1.64
protein_coding	3.80	2.77	20.16	17.56	40.71	42.24	0.17	2.18
protein_coding	0.82	0.73	1.15	0.65	1.51	3.96	0.86	3.84
protein_coding	7.26	0.84	31.70	25.93	72.37	82.59	0.14	2.31
protein_coding	14.94	21.13	6.85	8.40	0.32	3.86	2.37	0.67
protein_coding	1.49	1.06	10.36	8.69	23.34	23.33	0.13	5.68

protein_coding	0.32	0.37	1.15	0.34	3.29	2.06	0.47	3.20
protein_coding	366.13	341.39	93.04	126.58	5.68	6.89	3.22	3.80
protein_coding	0.10	0.44	1.06	0.38	2.66	1.99	0.37	0.82
protein_coding	7.14	5.18	29.19	54.49	126.86	129.07	0.15	7.26
protein_coding	1.87	1.63	19.81	3.50	45.38	33.87	0.15	2.77
protein_coding	1.11	0.37	5.22	2.79	13.72	9.38	0.18	1.36
protein_coding	18.15	23.26	8.78	10.35	3.86	3.73	2.16	5.85
protein_coding	6.19	5.07	22.96	51.02	150.48	123.77	0.15	9.17
protein_coding	18.64	19.69	141.48	109.07	352.90	378.07	0.15	0.53
protein_coding	3.99	3.98	8.49	10.17	18.51	23.65	0.43	39.23
protein_coding	5.25	5.85	45.31	26.65	320.17	333.82	0.15	2.76
protein_coding	10.99	8.43	4.28	4.81	1.21	1.63	2.14	6.28
protein_coding	2.66	0.35	6.28	11.26	30.24	38.27	0.17	4.44
protein_coding	19.84	16.07	8.60	2.93	1.11	1.70	3.11	5.37
protein_coding	0.24	0.37	0.71	0.53	2.25	1.14	0.49	2.86
protein_coding	3.30	9.30	38.51	39.23	90.71	100.74	0.16	2.66
protein_coding	0.37	0.71	0.73	0.44	3.05	2.49	0.92	19.84
protein_coding	0.37	1.07	1.27	5.13	11.14	13.99	0.22	0.24
protein_coding	4.43	1.82	14.33	18.37	56.01	56.97	0.19	13.72
protein_coding	0.54	0.95	0.75	0.84	2.64	12.02	0.94	6.69
protein_coding	2.96	3.64	7.59	7.50	14.62	17.83	0.44	2.53
protein_coding	0.60	0.83	2.08	1.22	8.30	1.26	0.43	2.49
protein_coding	22.21	64.65	19.27	19.41	7.83	6.83	2.25	5.55
protein_coding	3.85	0.65	6.20	10.70	23.88	23.43	0.27	0.89
protein_coding	0.45	0.46	1.18	0.54	4.34	1.63	0.53	5.38
protein_coding	14.64	14.97	52.90	66.56	132.27	143.59	0.25	4.50
protein_coding	2.23	2.25	8.46	9.28	22.42	22.38	0.25	4.14
protein_coding	2.83	1.70	9.35	6.78	38.49	42.61	0.28	7.51
protein_coding	83.18	71.83	32.75	32.92	12.88	17.47	2.36	2.28
protein_coding	8.60	2.85	26.85	15.56	47.34	65.55	0.27	0.47
protein_coding	42.88	39.73	19.94	19.17	9.46	8.29	2.11	3.69
protein_coding	1.20	1.33	4.02	5.17	11.76	11.63	0.28	1.84
protein_coding	25.04	30.66	10.49	7.98	2.81	4.64	3.01	4.65
protein_coding	3.35	2.37	12.44	8.05	35.79	37.72	0.28	0.54
protein_coding	2.99	2.73	9.91	9.35	20.41	24.07	0.30	2.62
protein_coding	0.35	0.54	0.29	0.55	0.71	1.71	1.06	1.47
protein_coding	1.34	1.88	3.60	7.47	13.73	17.64	0.29	1.86
protein_coding	0.54	4.11	6.15	8.09	17.95	21.23	0.33	1.63
protein_coding	15.22	16.55	7.87	7.94	2.82	4.74	2.01	6.88
protein_coding	1.12	2.85	4.97	8.45	25.14	23.22	0.30	7.52
protein_coding	0.54	0.91	1.82	1.47	4.46	10.97	0.44	8.60
protein_coding	24.31	10.68	3.83	5.39	0.76	2.31	3.80	3.54
protein_coding	0.54	4.48	7.89	6.97	18.65	17.68	0.34	2.75
protein_coding	2.98	1.24	6.05	7.13	10.39	19.76	0.32	2.68
protein_coding	2.82	2.73	9.28	7.96	19.73	23.94	0.32	30.92
protein_coding	9.85	3.02	13.76	15.94	45.44	31.11	0.43	2.85
protein_coding	7.52	8.42	30.83	17.90	69.92	70.63	0.33	4.50
protein_coding	3.79	2.69	9.81	9.48	8.71	33.11	0.34	1.33
protein_coding	3.09	3.82	11.44	19.08	39.45	43.68	0.23	1.17
protein_coding	1.70	1.99	5.81	5.11	12.53	14.84	0.34	5.81
protein_coding	1.32	0.65	1.57	2.63	7.16	8.00	0.47	2.04
protein_coding	7.64	3.03	14.17	12.42	38.34	30.75	0.40	0.98

protein_coding	1.91	4.83	7.36	7.99	46.04	42.48	0.44	4.02
protein_coding	2.74	4.41	10.44	9.97	21.15	20.60	0.35	11.27
protein_coding	0.87	1.23	1.37	2.28	9.09	3.43	0.58	4.22
protein_coding	12.36	13.99	6.07	3.85	0.39	0.88	2.66	5.29
protein_coding	1.46	7.60	13.72	11.15	29.97	30.27	0.36	4.58
protein_coding	6.85	5.34	14.66	18.71	39.75	53.07	0.37	17.47
protein_coding	0.74	6.07	7.17	9.49	21.59	22.78	0.41	10.23
protein_coding	1.82	2.92	5.90	6.73	15.69	15.84	0.38	0.10
protein_coding	5.05	5.03	14.92	17.51	42.06	32.14	0.31	4.65
protein_coding	50.34	45.12	117.99	135.32	314.03	237.66	0.38	1.69
protein_coding	1.27	1.19	3.56	2.90	8.23	6.19	0.38	23.79
protein_coding	17.87	13.28	7.01	3.44	0.88	2.18	2.98	1.44
protein_coding	0.45	0.55	2.39	1.01	5.10	7.95	0.29	1.48
protein_coding	3.29	1.82	8.17	5.11	18.51	17.29	0.38	6.56
protein_coding	4.80	5.31	10.51	15.71	59.58	59.17	0.39	0.10
protein_coding	6.61	6.98	2.68	1.59	0.54	0.97	3.17	8.43
protein_coding	3.86	3.01	10.88	6.87	33.56	35.35	0.39	6.21
protein_coding	11.89	5.92	22.30	22.49	41.22	49.14	0.40	3.90
protein_coding	4.44	3.53	10.69	9.32	19.04	29.48	0.40	9.22
protein_coding	8.05	5.67	15.76	18.59	38.80	38.29	0.40	5.73
protein_coding	0.37	2.06	5.43	2.91	16.88	10.07	0.29	6.98
protein_coding	0.87	0.75	0.22	0.28	0.51	0.74	3.25	1.75
protein_coding	14.37	21.38	43.38	44.99	103.04	79.32	0.40	1.34
protein_coding	7.16	4.77	17.44	28.48	62.70	68.20	0.26	2.63
protein_coding	18.10	14.07	40.66	38.06	74.48	88.14	0.41	10.28
protein_coding	0.77	0.79	0.29	0.71	0.87	0.60	1.55	10.44
protein_coding	6.03	2.29	9.73	10.20	24.38	19.13	0.42	3.37
protein_coding	522.46	487.72	24.55	168.79	13.91	10.65	5.22	5.52
protein_coding	0.42	0.73	0.77	2.18	5.95	2.79	0.39	3.42
protein_coding	1.97	7.74	12.55	10.56	29.46	21.24	0.42	2.23
protein_coding	13.62	11.40	29.91	29.17	59.63	69.46	0.42	4.13
protein_coding	35.58	35.39	77.23	88.72	246.14	242.34	0.43	7.01
protein_coding	22.74	27.32	12.17	12.45	8.07	3.46	2.03	17.90
protein_coding	1.29	1.37	0.32	0.21	0.74	0.73	4.99	5.20
protein_coding	7.32	5.33	1.29	1.05	0.32	0.77	5.42	7.48
protein_coding	26.07	17.83	7.90	10.85	5.44	2.32	2.34	135.90
protein_coding	2.82	3.29	6.15	7.78	16.40	14.88	0.44	24.42
protein_coding	1.56	0.55	2.17	2.12	4.96	5.00	0.49	22.53
protein_coding	0.76	0.67	1.94	0.61	4.59	5.18	0.56	11.09
protein_coding	3.67	3.31	7.34	8.32	22.77	22.61	0.45	55.75
protein_coding	0.35	0.75	2.12	0.81	6.07	11.82	0.38	75.61
protein_coding	6.44	0.78	6.93	7.42	18.18	16.64	0.50	195.66
protein_coding	4.99	7.33	37.28	25.23	103.16	114.85	0.20	56.13
protein_coding	3.00	8.33	11.63	13.21	31.03	26.18	0.46	30.82
protein_coding	1.71	1.58	10.99	14.38	35.86	37.67	0.13	14.51
protein_coding	0.97	2.23	2.93	3.46	9.18	7.53	0.50	36.99
protein_coding	1.32	0.87	2.23	2.43	4.06	7.22	0.47	190.37
protein_coding	27.27	36.41	15.86	15.87	5.42	10.23	2.01	45.25
protein_coding	8.23	10.74	3.17	2.33	0.68	0.53	3.45	19.33
protein_coding	0.86	1.07	0.26	0.23	0.61	0.83	3.97	18.64
protein_coding	45.25	29.17	18.43	18.25	9.07	7.81	2.03	30.63
protein_coding	0.43	0.43	4.20	7.88	11.78	20.37	0.07	57.69

protein_coding	27.43	21.87	12.02	12.14	5.61	5.45	2.04	25.45
protein_coding	16.79	17.02	8.23	8.32	4.73	3.42	2.04	4.11
protein_coding	10.67	8.82	4.68	4.86	1.33	2.87	2.04	11.50
protein_coding	11.30	10.93	3.12	1.64	0.78	1.20	4.66	57.30
protein_coding	39.83	32.44	17.40	17.74	8.75	6.07	2.06	33.88
protein_coding	133.82	110.03	58.43	58.27	26.74	26.46	2.09	20.78
protein_coding	163.61	183.20	46.41	76.63	14.81	10.20	2.82	4.23
protein_coding	5.01	3.40	1.86	2.00	0.76	1.08	2.18	21.12
protein_coding	398.48	354.06	81.56	112.01	0.61	1.53	3.89	2.47
protein_coding	48.46	54.98	24.66	23.97	8.35	13.29	2.13	187.37
protein_coding	29.10	28.59	13.03	13.78	5.07	6.51	2.15	75.56
protein_coding	36.99	42.18	17.99	18.71	6.58	11.00	2.16	72.34
protein_coding	56.19	59.80	6.48	6.95	3.27	2.75	8.63	366.00
protein_coding	79.17	85.14	36.90	38.03	19.00	16.55	2.19	18.82
protein_coding	7.03	6.40	40.82	43.70	105.87	89.11	0.16	19.58
protein_coding	19.29	12.48	7.62	6.99	6.73	0.87	2.17	30.71
protein_coding	0.45	0.74	0.52	1.89	2.94	8.24	0.50	37.46
protein_coding	41.84	41.18	18.63	19.53	10.46	7.14	2.18	9.89
protein_coding	0.37	0.53	0.89	2.27	12.80	10.51	0.29	43.45
protein_coding	28.96	33.95	14.07	14.60	6.07	7.81	2.19	12.57
protein_coding	2058.01	2271.99	1038.72	929.27	0.77	9.81	2.20	55.88
protein_coding	0.71	0.63	0.91	0.32	4.00	1.56	1.09	23.70
protein_coding	32.85	27.00	13.06	14.01	5.73	2.59	2.21	20.42
protein_coding	74.95	74.01	32.14	35.24	13.65	12.73	2.21	33.02
protein_coding	19.42	13.92	4.59	6.38	1.70	2.65	3.04	44.11
protein_coding	53.37	49.93	21.83	24.29	5.65	5.13	2.24	17.12
protein_coding	2.90	3.45	16.59	28.54	81.93	110.73	0.14	22.02
protein_coding	25.59	16.48	10.06	8.49	4.12	3.91	2.27	2.27
protein_coding	5.44	13.59	4.31	4.03	0.73	1.91	2.28	30.46
protein_coding	4.38	3.79	9.19	13.50	41.62	40.80	0.36	134.28
protein_coding	79.17	51.55	27.87	29.36	13.07	11.49	2.28	13.13
protein_coding	92.77	104.28	39.81	45.53	21.87	15.20	2.31	165.89
protein_coding	1.62	1.89	0.68	0.83	0.21	0.43	2.31	10.78
protein_coding	18.28	14.68	7.16	7.11	3.62	3.23	2.31	30.44
protein_coding	8.17	9.42	3.28	4.31	20.72	10.51	2.32	12.95
protein_coding	19.94	15.18	6.96	8.14	2.11	4.26	2.33	1003.78
protein_coding	64.40	61.78	27.92	25.86	11.38	14.24	2.35	34.76
protein_coding	3.21	1.31	1.63	1.79	6.15	10.13	1.32	24.56
protein_coding	9.85	13.27	5.09	4.74	2.13	1.23	2.35	27.27
protein_coding	2.50	3.80	1.32	1.35	4.23	2.13	2.36	57.04
protein_coding	106.42	114.10	22.53	55.13	1.49	5.24	2.84	79.13
protein_coding	41.89	42.45	15.03	20.30	7.69	6.94	2.39	6.00
protein_coding	22.85	35.23	11.73	12.52	3.41	8.14	2.39	6.67
protein_coding	3.80	79.88	16.58	18.35	4.09	7.16	2.40	21.36
protein_coding	0.46	0.43	6.10	12.00	33.52	17.57	0.05	6.91
protein_coding	3.93	2.35	1.04	1.57	1.25	1.37	2.41	48.43
protein_coding	41.04	42.32	16.71	17.83	1.51	0.92	2.41	29.45
protein_coding	8.78	9.02	4.03	3.33	2.79	1.58	2.42	811.44
protein_coding	34.36	35.42	13.95	14.71	6.23	6.59	2.43	31.08
protein_coding	1.89	2.40	3.72	0.95	8.23	13.49	0.92	104.47
protein_coding	12.35	27.36	7.26	9.01	2.27	4.22	2.44	42.31
protein_coding	0.98	3.97	1.12	0.91	0.30	0.10	2.44	93.55

protein_coding	31.90	40.29	12.83	16.74	4.41	2.98	2.44	27.96
protein_coding	38.87	43.90	16.60	17.08	5.35	7.64	2.46	6.43
protein_coding	34.05	42.87	3.65	4.95	2.39	0.94	8.95	22.69
protein_coding	44.81	53.30	18.46	21.41	7.83	9.07	2.46	29.41
protein_coding	16.79	19.38	3.81	7.60	1.53	3.29	3.17	1.84
protein_coding	24.76	32.05	12.07	10.52	2.16	2.54	2.52	37.09
protein_coding	34.36	35.42	13.29	14.24	6.23	6.59	2.53	15.97
protein_coding	5.60	2.56	1.25	1.96	0.70	0.42	2.54	15.38
protein_coding	7.25	6.72	1.01	1.34	0.01	1.40	5.95	18.92
protein_coding	40.94	30.12	10.40	17.60	5.91	3.66	2.54	36.32
protein_coding	62.06	50.20	27.76	16.33	8.83	4.49	2.55	610.73
protein_coding	123.57	124.84	41.75	54.98	18.65	18.52	2.57	11.02
protein_coding	2.71	0.68	4.72	3.77	7.80	12.82	0.40	43.76
protein_coding	8.05	8.83	4.10	2.48	0.05	1.07	2.57	14.82
protein_coding	107.79	116.62	44.73	41.63	1.39	5.36	2.60	44.81
protein_coding	0.87	1.07	0.47	0.27	2.64	2.67	2.63	31.67
protein_coding	177.04	213.91	32.80	42.90	12.28	14.75	5.16	67.93
protein_coding	64.93	64.36	30.61	25.75	9.46	8.86	2.29	21.44
protein_coding	1.37	2.51	0.56	0.89	1.70	2.40	2.67	661.19
protein_coding	99.83	85.67	37.04	31.10	2.80	1.99	2.72	2.30
protein_coding	14.09	12.74	5.84	4.37	2.62	0.82	2.63	28.77
protein_coding	2.18	2.22	0.99	0.62	3.55	1.33	2.73	11.45
protein_coding	82.65	84.98	34.90	26.14	12.09	8.36	2.75	24.27
protein_coding	7.46	6.05	3.06	1.79	0.31	0.85	2.78	154.81
protein_coding	13.76	12.61	6.00	5.28	2.08	1.31	2.34	34.54
protein_coding	13.18	27.90	9.63	5.00	3.05	0.91	2.81	28.93
protein_coding	62.72	52.54	19.51	21.44	7.23	5.87	2.81	380.42
protein_coding	13.62	11.68	5.07	3.90	1.78	0.71	2.82	33.51
protein_coding	0.01	0.54	0.53	0.68	2.41	1.09	0.45	64.83
protein_coding	23.40	22.04	8.63	7.26	3.19	2.59	2.86	45.76
protein_coding	4.64	4.55	13.16	13.56	27.68	28.53	0.34	69.78
protein_coding	1.98	4.16	1.13	1.02	0.85	1.33	2.86	40.94
protein_coding	1.10	2.66	7.75	4.47	13.13	20.85	0.31	0.70
protein_coding	88.85	102.03	38.17	27.68	10.85	13.49	2.90	31.08
protein_coding	5.80	0.78	0.67	0.32	3.25	1.92	6.65	2.88
protein_coding	9.46	10.21	3.72	2.98	1.70	0.95	2.94	24.83
protein_coding	61.66	42.59	14.68	20.37	7.00	3.58	2.97	0.96
protein_coding	18.10	14.07	38.06	32.17	74.48	88.14	0.46	41.78
protein_coding	91.68	130.75	28.79	44.29	10.95	15.46	3.04	17.28
protein_coding	24.62	20.81	9.25	7.05	3.59	3.08	2.79	51.73
protein_coding	176.88	189.71	53.03	62.30	7.59	8.37	3.18	5.06
protein_coding	29.09	20.12	0.60	10.60	3.25	0.26	4.39	67.45
protein_coding	129.85	141.48	44.71	38.29	2.43	2.47	3.27	63.79
protein_coding	3.30	5.46	15.17	17.12	44.98	44.67	0.27	33.42
protein_coding	2.26	1.85	0.91	0.33	1.86	1.36	3.30	18.98
protein_coding	4.83	11.75	2.13	2.77	0.83	2.38	3.38	4.19
protein_coding	6.86	4.67	1.90	1.51	1.37	0.08	3.38	100.89
protein_coding	3.70	2.70	1.11	0.74	2.63	0.10	3.45	1.67
protein_coding	49.80	37.55	14.23	8.44	1.34	2.75	3.85	161.72
protein_coding	6.47	0.00	8.20	12.21	29.02	21.84	0.32	8.46
protein_coding	32.90	24.69	7.06	9.30	0.82	3.60	3.52	26.36
protein_coding	8.84	13.84	2.66	3.71	0.08	2.14	3.56	3.08

protein_coding	3.14	0.01	8.00	3.52	17.26	22.33	0.27	1.63
protein_coding	16.82	15.21	4.67	4.32	0.71	1.65	3.56	214.95
protein_coding	4.28	6.84	0.41	2.67	0.53	0.33	3.60	355.12
protein_coding	1222.21	1274.04	582.30	587.74	280.84	298.73	2.13	36.48
protein_coding	55.49	37.21	6.72	18.03	2.10	4.27	3.74	12.07
protein_coding	78.30	77.79	21.09	20.26	9.74	8.85	3.78	6.52
protein_coding	1.92	2.37	0.64	0.27	2.32	3.25	4.68	4.03
protein_coding	5.94	5.11	1.72	1.19	1.51	1.68	3.80	13.02
protein_coding	8.74	12.15	3.69	2.05	4.35	3.58	3.65	17.11
protein_coding	166.55	162.34	25.49	59.01	9.41	9.63	3.89	20.16
protein_coding	61.12	71.75	9.45	23.36	2.68	2.13	4.05	12.61
protein_coding	194.90	176.19	30.69	58.47	7.68	5.04	4.16	3.80
protein_coding	0.05	0.65	0.81	1.26	3.61	1.80	0.34	25.59
protein_coding	78.89	71.93	18.96	15.21	5.55	5.91	4.41	2.89
protein_coding	78.89	72.51	11.46	19.54	5.55	5.91	4.88	26.12
protein_coding	1.56	6.16	1.19	0.38	0.09	0.63	4.93	172.61
protein_coding	8.10	12.15	2.98	0.99	2.55	3.26	5.10	2.08
protein_coding	8.76	5.33	3.12	3.24	1.40	1.72	2.22	2.89
protein_coding	54.33	55.52	1.98	12.38	1.37	0.61	7.65	45.23
protein_coding	3.20	6.26	1.48	0.24	12.65	1.35	5.48	2.08
protein_coding	4.54	17.04	1.10	2.65	0.05	0.81	5.76	3.45
protein_coding	9.91	13.51	5.35	5.48	2.82	2.00	2.16	291.57
protein_coding	5.15	2.11	0.79	0.40	3.59	19.83	6.10	67.71
protein_coding	60.62	68.78	32.35	26.31	11.25	2.50	2.21	2.68
protein_coding	9.02	4.44	1.56	0.59	0.83	4.43	6.28	3.21
protein_coding	18.46	20.94	9.06	9.52	3.71	4.53	2.12	34.99
protein_coding	11.69	7.10	1.30	0.93	11.35	2.78	8.40	7.44
protein_coding	0.09	2.32	1.94	0.90	6.29	2.10	0.85	136.57
protein_coding	3.56	5.46	0.87	0.06	0.05	0.27	9.70	8.60
protein_coding	69.62	63.59	30.62	29.02	4.18	2.88	2.23	4.78

























**H3K9ac ChIP-seq****HDAC3 ChIP-seq**

<b>TN_1</b>	<b>TN_2</b>	<b>CBZ_1</b>	<b>CBZ_2</b>	<b>Control_1</b>	<b>Control_2</b>	<b>TN_1</b>	<b>TN_2</b>	<b>CBZ_1</b>
0.15	3.74	19.65	47.91	68.44	0.02	7.25	14.20	1.04
10.81	7.40	7.25	18.22	11.99	0.76	91.25	74.25	4.36
2.71	10.59	0.36	8.04	12.48	0.03	5.39	5.19	0.25
8.34	6.51	5.61	15.77	14.49	0.98	3.56	2.59	0.34
3.03	2.54	3.61	3.56	16.36	1.69	0.34	0.62	1.95
37.39	4.08	1.43	10.50	8.85	7.45	2.20	6.11	0.51
0.14	1.05	5.24	11.88	9.06	1.87	7.22	7.34	0.62
2.54	2.18	3.10	8.57	6.11	0.94	11.51	9.43	2.36
1.41	4.35	0.75	13.92	8.27	0.58	14.16	16.37	2.17
7.46	2.40	2.33	6.54	7.73	2.07	8.40	2.57	4.92
0.15	2.98	1.49	6.92	7.88	0.05	4.17	2.68	4.74
1.99	1.05	2.89	19.15	9.39	0.60	0.15	3.36	5.21
2.67	2.58	1.02	7.17	8.18	1.10	3.51	5.04	1.31
1.40	1.64	1.90	5.46	8.14	0.78	7.39	21.62	3.65
2.19	0.78	2.73	14.30	9.08	3.09	3.69	6.08	0.71
3.82	0.54	2.96	6.99	4.84	1.56	1.27	1.66	0.28
0.30	2.46	0.98	2.13	13.92	0.35	2.41	3.76	0.94
2.66	0.72	2.71	10.81	10.50	0.93	6.55	8.09	1.65
3.66	2.03	1.25	4.78	6.88	1.86	1.52	3.23	0.88
1.98	18.84	2.90	0.88	4.36	0.06	4.84	3.53	0.39
2.35	1.57	1.51	4.12	2.51	3.23	1.48	1.66	4.59
6.98	3.76	4.62	3.96	6.54	0.07	9.80	7.98	2.28
4.49	1.03	1.92	6.79	3.64	4.15	1.37	1.18	0.22
8.49	1.30	1.47	6.15	5.95	6.74	0.37	1.65	4.44
8.32	2.14	0.60	6.35	3.10	43.47	1.58	3.03	0.39
11.06	1.11	1.41	2.58	4.17	8.81	3.23	2.81	2.21
11.40	1.01	1.51	8.34	4.66	9.60	14.77	10.37	4.79
2.18	1.35	1.15	5.39	5.23	1.27	2.83	3.07	0.67
3.84	1.89	0.53	7.76	5.79	7.31	1.10	1.31	4.15
0.80	3.80	5.82	11.17	14.33	0.57	3.21	3.65	4.14
1.98	0.54	1.56	3.82	2.51	2.10	0.91	1.46	4.33
4.54	15.81	5.66	57.03	68.30	0.30	58.14	62.31	5.67
20.94	0.48	0.27	4.48	4.50	0.10	2.98	14.17	3.98
33.30	1.44	0.20	2.83	6.37	21.11	8.94	8.45	3.16
19.57	12.21	11.65	22.81	26.04	0.94	11.07	22.13	3.34
2.13	2.49	14.84	32.15	28.25	0.20	3.36	2.39	1.31
0.35	0.72	0.82	1.91	2.00	0.45	68.97	50.00	7.29
6.06	1.31	0.20	1.69	6.09	6.55	1.39	4.42	0.63
0.73	4.18	6.22	26.86	15.00	0.20	1.01	1.47	3.92
2.35	0.64	0.81	3.50	1.88	13.72	0.42	0.60	1.70
0.37	0.91	0.53	2.04	3.39	0.71	9.31	10.62	4.49
71.90	2.63	2.00	3.52	1.51	0.15	0.37	1.41	3.88
0.10	7.18	33.30	62.18	71.02	0.15	4.21	9.80	2.32
1.11	14.25	19.57	37.43	40.85	0.15	6.26	11.14	1.76
1.06	3.79	7.66	15.73	14.93	0.24	21.99	26.44	3.47
0.37	0.89	0.42	1.06	3.01	1.96	1.47	1.30	3.44
2.24	10.10	5.11	18.90	26.67	0.40	0.60	2.14	3.44
0.10	10.29	4.81	34.25	42.55	0.16	12.34	21.95	7.89
5.22	0.65	0.60	3.79	6.76	4.73	10.25	8.25	1.88
2.46	0.60	0.65	1.52	1.65	6.53	43.49	46.12	18.77

8.04	13.51	55.58	129.96	137.83	0.16	13.41	13.01	3.77
1.02	0.59	0.62	0.85	1.78	3.98	1.41	1.11	3.36
0.11	0.75	0.46	0.93	3.72	0.77	4.68	2.60	3.34
2.11	0.25	0.91	1.34	2.41	8.15	4.50	4.05	1.24
2.84	20.20	11.58	39.32	48.13	0.18	3.65	1.57	3.31
4.16	13.47	17.77	39.08	47.92	0.18	0.93	0.71	0.33
11.63	52.10	46.83	115.90	101.52	0.18	18.94	18.05	3.30
23.26	41.24	10.05	84.73	105.19	0.63	2.32	5.30	1.04
5.07	0.48	0.58	2.48	2.26	5.27	9.19	50.97	18.48
0.58	0.49	0.54	3.01	1.10	38.81	12.53	8.28	4.13
0.54	10.64	3.83	37.90	37.09	0.23	43.55	35.10	13.38
3.83	0.20	0.78	1.53	2.41	10.35	27.25	23.76	10.35
0.37	20.22	27.87	57.15	66.25	0.10	24.83	12.99	3.24
5.00	26.93	22.38	59.60	63.02	0.21	21.95	35.31	11.50
3.30	16.01	12.03	30.44	35.29	0.22	5.34	49.64	17.07
1.12	2.50	3.03	9.81	9.84	0.68	41.17	36.32	15.90
0.54	0.21	0.69	1.88	1.07	22.58	38.48	44.10	13.30
1.88	0.47	0.40	1.06	0.95	2.42	6.17	5.20	2.23
5.22	12.15	10.89	26.67	29.81	0.82	24.69	18.74	3.23
8.81	25.94	37.95	85.23	79.11	0.24	6.03	31.26	15.63
3.06	12.44	9.74	32.90	30.13	0.25	19.66	72.40	34.04
2.12	8.21	10.01	18.86	26.73	0.25	25.30	22.27	8.90
4.08	20.49	17.15	102.66	99.70	0.26	9.91	7.47	3.16
3.05	1.64	2.21	6.71	4.30	1.02	41.89	42.45	14.64
5.48	12.11	29.67	74.71	91.64	0.26	1.45	1.15	0.58
7.02	23.73	20.24	47.96	46.96	0.26	46.06	58.48	18.97
5.58	16.08	20.31	32.24	52.78	0.27	5.64	102.03	39.61
0.10	14.04	13.50	29.30	36.13	0.28	15.60	15.77	2.51
0.69	1.27	1.56	3.62	3.63	1.05	7.36	5.23	2.25
11.82	24.11	17.43	60.68	43.87	0.30	4.71	6.76	2.07
3.50	11.27	13.58	31.89	31.63	0.29	21.44	24.20	9.24
0.74	2.58	6.30	16.14	9.38	0.29	4.03	2.42	2.49
2.36	12.36	10.95	43.50	39.76	0.30	7.58	4.52	2.49
4.06	4.28	9.22	20.45	20.40	0.34	10.85	13.49	2.48
1.70	8.13	5.88	17.44	18.97	0.31	47.29	43.06	2.48
4.97	3.39	1.67	7.92	8.55	1.27	1.82	2.54	0.73
1.82	3.26	2.92	7.04	9.32	0.60	3.15	0.32	2.47
3.83	0.29	0.34	1.38	8.39	8.69	13.18	12.97	6.50
1.46	12.42	13.53	30.52	27.06	0.32	9.86	28.71	8.05
8.42	19.47	28.87	69.92	70.63	0.33	13.18	11.91	2.40
2.85	0.39	0.21	0.59	2.11	18.97	7.10	13.64	2.44
2.85	11.18	7.85	23.19	30.84	0.34	7.89	5.88	2.77
1.45	7.76	4.49	17.71	17.96	0.34	6.56	9.53	2.35
3.76	10.13	8.49	21.03	20.78	0.35	13.72	16.18	6.27
10.89	64.71	54.31	42.17	261.08	0.35	7.96	6.95	3.73
5.10	11.17	11.06	24.96	27.90	0.36	17.02	11.97	5.61
4.17	12.76	11.40	39.22	33.60	0.36	2.22	4.64	1.38
4.02	0.36	0.20	4.65	6.31	9.64	2.93	2.15	2.31
1.21	2.81	3.80	8.69	9.24	0.36	0.40	0.89	2.31
8.99	16.86	23.81	47.84	48.15	0.36	8.13	2.45	2.30
1.61	4.95	5.04	7.98	15.14	0.36	3.74	6.41	2.30
0.91	2.47	2.65	5.92	4.88	0.37	8.54	7.64	2.29

0.10	6.08	4.89	14.04	10.81	0.38	12.28	20.74	2.28
7.57	31.10	18.85	72.01	92.34	0.38	18.03	14.61	7.25
5.10	11.32	13.01	38.76	28.68	0.38	11.03	11.71	5.55
4.29	12.03	12.79	26.19	27.12	0.39	6.96	6.36	2.95
6.67	12.45	16.40	42.21	36.43	0.39	21.51	8.63	6.47
14.90	40.77	42.11	91.92	103.37	0.39	19.11	7.73	12.82
8.38	26.98	20.39	67.99	56.18	0.39	8.99	10.83	31.03
1.71	2.20	2.39	5.13	6.66	0.39	3.09	0.77	29.30
3.05	10.12	9.33	18.45	24.22	0.40	2.05	0.39	7.83
5.00	8.14	8.70	23.00	25.73	0.40	14.83	18.44	8.32
17.87	49.27	54.98	120.86	139.01	0.40	12.88	17.47	2.23
3.24	5.74	5.85	12.88	11.20	0.40	9.11	7.98	4.08
0.10	1.95	1.96	4.61	5.28	0.40	13.40	2.77	2.51
5.19	15.36	13.51	28.16	36.09	0.41	10.37	9.45	4.62
2.05	3.00	2.27	10.37	10.16	0.41	79.17	85.14	38.93
0.10	9.95	10.77	31.89	12.19	0.41	23.70	23.42	10.15
3.48	10.82	12.53	28.83	23.83	0.41	36.58	40.18	16.00
2.09	7.52	6.88	25.72	23.32	0.42	30.46	30.19	13.39
10.07	24.32	21.94	53.68	50.88	0.42	89.70	35.90	28.51
7.79	15.99	16.22	36.32	32.89	0.42	9.68	9.62	4.35
11.20	19.06	24.17	52.46	48.91	0.42	19.64	21.92	10.32
1.37	4.19	3.20	12.85	8.06	0.42	5.33	2.75	1.95
1.79	4.10	3.17	4.73	11.94	0.43	41.17	42.04	18.59
2.90	6.90	5.93	14.90	13.20	0.43	5.83	3.00	2.19
5.51	15.78	20.52	136.01	159.22	0.43	6.91	6.49	2.19
5.51	18.92	17.57	61.13	55.64	0.44	6.52	6.09	2.18
5.27	10.65	9.06	21.07	22.64	0.44	12.28	20.74	2.17
4.42	10.31	12.28	22.02	29.79	0.44	5.20	6.51	2.81
3.54	7.22	8.44	21.34	16.90	0.44	20.83	26.11	10.98
3.65	7.30	5.95	7.08	22.47	0.44	30.29	37.45	16.26
0.10	4.34	5.13	10.35	10.86	0.45	36.98	41.96	19.30
5.14	13.41	12.62	38.55	40.89	0.47	30.25	33.46	15.82
18.48	37.68	39.84	93.15	94.75	0.47	16.69	14.80	7.82
3.35	8.55	9.23	76.39	90.61	0.48	10.76	13.13	5.71
7.88	16.03	15.42	31.26	33.80	0.49	13.31	19.23	8.07
173.65	316.27	309.55	797.21	880.11	0.49	69.86	77.38	36.36
22.91	11.83	11.83	3.26	8.57	2.00	23.10	22.97	11.34
17.38	9.97	9.97	6.02	3.95	2.00	34.71	31.69	16.24
8.89	4.97	4.93	1.56	3.29	2.02	42.32	36.10	19.26
60.56	29.08	28.23	4.06	4.39	2.03	42.06	37.59	19.82
56.50	31.92	33.03	18.99	12.40	2.03	10.48	8.64	2.02
198.85	96.74	96.66	49.62	45.15	2.04	4.82	11.65	4.08
66.81	30.74	28.66	17.80	10.39	2.07	24.94	19.15	11.01
35.58	16.14	15.91	7.46	3.48	2.07	41.28	37.30	19.64
15.63	7.00	7.54	2.89	3.18	2.07	8.87	0.10	9.25
42.18	18.80	19.30	6.58	11.00	2.08	1.10	1.55	2.76
126.30	77.54	74.29	33.56	29.69	2.09	3.27	0.10	3.57
29.17	18.25	17.41	9.07	7.81	2.09	4.94	3.46	8.65
19.90	9.37	9.40	3.47	5.90	2.09	8.21	8.98	17.65
23.08	9.83	10.11	3.08	5.62	2.09	7.66	4.94	13.58
25.31	13.29	13.26	10.42	2.65	2.11	15.04	17.15	36.20
90.53	33.62	36.67	7.44	10.90	2.11	14.01	19.18	37.89

31.94	14.18	12.99	4.65	8.34	2.11	23.01	20.07	51.21
6.79	2.66	2.50	0.86	1.06	2.11	8.42	8.93	19.41
20.01	7.37	7.51	2.04	3.56	2.12	1.99	2.09	5.03
54.50	25.04	27.50	12.41	10.05	2.13	0.55	1.61	2.53
36.46	17.58	15.37	6.45	7.74	2.13	4.33	1.26	6.14
15.49	7.96	8.91	5.26	2.70	2.15	4.10	4.65	9.51
5.03	2.04	2.24	5.62	1.26	2.16	5.35	2.24	7.69
25.13	10.97	10.38	4.52	2.90	2.17	20.87	27.04	48.89
5.04	1.69	1.75	0.75	0.87	2.18	5.28	10.64	17.78
456.85	670.89	626.00	280.69	314.59	2.19	4.96	5.27	10.22
106.69	41.91	41.18	19.45	17.16	2.19	17.75	24.09	9.79
95.55	41.36	35.17	5.40	6.28	2.19	4.51	1.68	6.70
432.09	178.61	183.96	88.24	87.46	2.20	3.87	6.59	13.32
14.49	7.10	8.00	3.33	3.54	2.21	3.85	2.12	6.09
17.14	8.86	7.75	3.78	3.64	2.21	2.69	0.41	3.14
28.72	13.83	13.04	5.73	6.15	2.21	9.78	9.38	23.51
30.76	14.84	15.97	7.72	6.80	2.21	2.60	2.69	7.31
10.64	4.75	4.49	2.79	1.69	2.22	4.05	2.89	10.11
38.69	19.69	17.15	7.49	9.60	2.23	9.02	3.55	14.25
8.91	4.92	4.70	2.20	2.07	2.23	10.33	0.10	12.84
47.49	22.50	23.75	8.88	6.72	2.23	14.51	10.68	29.71
23.24	9.45	11.51	4.63	3.38	2.24	13.23	8.63	25.15
17.72	8.36	8.63	4.70	2.22	2.24	1.14	1.12	3.23
35.29	16.58	13.77	6.26	7.37	2.25	4.10	3.18	4.07
34.15	19.09	15.59	6.73	5.03	2.26	8.68	4.17	14.77
11.88	6.11	6.62	2.87	3.14	2.28	3.66	3.49	10.30
19.89	8.79	9.53	3.31	4.57	2.29	4.08	3.38	10.70
1.63	0.91	0.78	2.09	1.19	2.30	4.64	4.55	12.96
30.19	13.03	13.34	6.52	6.09	2.30	4.31	0.90	1.40
117.51	61.98	47.44	8.91	6.54	2.30	4.41	10.41	21.67
18.13	6.80	6.76	1.35	4.48	2.30	5.70	0.10	9.69
156.42	74.68	65.16	30.13	28.23	2.30	32.07	48.79	66.92
10.11	4.42	4.55	2.60	1.68	2.33	2.68	3.38	8.35
24.38	10.69	12.74	4.85	2.95	2.34	50.30	44.71	16.91
10.94	4.60	5.60	0.95	2.98	2.34	1.46	2.75	5.81
900.24	437.99	374.63	173.66	147.11	2.34	1.79	3.37	5.49
34.76	14.76	14.91	5.78	7.93	2.34	1.47	3.41	8.87
18.23	9.02	9.20	5.78	1.87	2.35	7.46	0.10	12.88
22.97	8.73	12.56	17.83	4.64	2.36	3.26	1.60	6.53
60.31	27.17	22.48	10.32	10.18	2.36	2.85	2.42	8.15
80.02	35.70	31.62	13.53	16.72	2.36	0.76	0.10	1.08
3.95	2.42	1.78	0.80	0.10	2.37	4.13	4.76	12.71
8.65	2.84	3.61	2.98	1.04	2.37	2.64	0.10	5.12
19.35	8.75	8.34	7.64	0.10	2.38	6.39	5.67	22.60
7.26	3.32	2.61	0.76	1.69	2.39	1.87	1.04	5.43
44.61	18.96	19.76	9.79	8.57	2.40	0.27	3.09	0.27
25.85	9.33	13.63	1.92	2.32	2.41	3.90	1.92	9.71
794.57	284.37	379.54	106.44	115.71	2.42	2.37	0.30	3.60
33.52	11.64	15.02	5.03	3.23	2.42	0.27	1.33	2.25
100.58	48.06	35.90	14.29	21.29	2.44	1.22	1.69	2.54
47.38	17.55	18.80	9.11	6.49	2.47	1.45	0.12	2.00
90.64	46.05	28.36	7.55	7.54	2.48	3.96	3.92	12.19

39.11	10.84	16.24	21.41	8.13	2.48	9.80	6.63	22.13
8.88	3.50	2.61	1.74	0.41	2.50	1.44	8.20	2.98
19.13	10.16	6.50	4.52	1.09	2.51	5.59	10.80	30.91
32.04	14.32	9.94	3.86	5.84	2.53	4.63	2.83	11.40
0.46	0.53	0.38	7.25	1.89	2.54	4.20	1.80	3.77
41.67	17.18	13.75	4.05	4.44	2.55	2.58	1.87	8.42
14.93	5.94	6.13	3.01	5.10	2.56	1.67	1.24	0.38
7.79	3.54	5.47	44.73	1.75	2.57	6.59	6.67	26.78
18.83	9.44	5.21	1.86	2.27	2.58	0.82	1.63	1.88
34.09	10.76	16.52	5.20	3.58	2.58	3.03	5.52	11.22
646.95	195.91	284.79	63.80	69.16	2.62	0.93	3.48	5.89
13.72	4.65	4.77	1.53	1.88	2.63	6.59	2.34	9.73
56.84	18.03	20.25	9.61	4.63	2.63	2.06	1.04	4.64
30.91	6.79	10.21	2.82	2.63	2.69	6.47	5.71	21.65
53.30	16.90	19.55	7.83	9.07	2.69	1.32	2.95	4.27
30.86	11.22	11.81	1.11	0.55	2.72	5.46	2.07	0.52
62.38	22.37	25.15	7.01	10.40	2.74	1.50	1.99	5.63
24.20	8.25	8.39	3.12	5.07	2.74	2.35	3.12	13.38
667.12	321.05	163.05	66.62	85.40	2.74	4.27	3.82	0.61
0.84	0.44	0.70	0.45	0.57	2.75	3.06	4.59	14.10
23.12	12.18	6.60	3.41	3.06	2.76	1.47	1.11	6.00
8.73	3.20	4.07	1.16	1.22	2.78	4.65	4.09	24.63
13.01	8.02	5.22	4.80	0.89	2.82	0.73	1.11	0.92
21.16	35.53	26.47	6.89	7.49	2.84	0.95	5.51	0.39
27.94	14.92	7.05	3.55	3.51	2.84	1.49	1.97	2.55
29.11	14.29	5.98	2.37	1.14	2.86	1.72	0.27	0.45
439.10	183.68	101.23	43.06	46.39	2.88	4.10	0.51	12.50
30.62	6.68	15.54	1.45	2.53	2.89	2.40	3.82	0.72
63.81	30.51	13.99	5.77	6.15	2.89	5.35	0.90	0.24
48.13	15.41	16.83	4.44	7.41	2.91	0.90	1.13	0.74
60.75	28.77	14.97	2.72	2.87	2.98	0.37	4.47	0.83
30.12	13.58	10.07	5.91	3.66	3.01	1.20	3.89	0.67
148.43	12.83	36.56	1.19	0.85	3.02	2.38	2.21	2.65
33.52	8.91	12.45	5.03	3.23	3.02	1.26	1.76	11.10
5.04	1.22	1.40	2.59	1.39	3.03	2.44	2.68	9.56
27.44	7.97	9.13	3.93	2.00	3.06	1.36	4.02	3.80
0.80	0.37	0.20	5.87	0.10	3.08	2.03	0.89	4.52
45.42	10.45	17.79	1.89	3.55	3.09	0.53	0.44	0.76
28.32	8.42	6.34	1.77	2.33	3.09	3.82	10.06	1.01
7.53	7.49	11.41	0.83	1.90	3.13	0.43	2.26	11.23
10.38	1.06	3.86	0.64	0.47	3.14	0.40	3.49	1.25
91.97	23.66	26.97	10.46	11.36	3.15	0.34	6.67	1.26
43.14	15.65	18.28	2.97	9.47	3.15	6.75	2.18	0.58
32.27	9.91	10.84	1.79	3.24	3.17	0.86	7.77	13.95
26.25	4.88	9.33	3.13	5.10	3.18	1.08	0.86	1.11
6.19	0.98	2.25	0.55	0.43	3.21	3.47	8.52	68.48
408.85	2016.97	332.42	471.96	500.82	3.22	3.08	1.63	0.25
2.17	0.94	0.25	1.37	2.84	3.22	2.79	2.60	10.97
195.58	52.31	57.35	26.98	21.12	3.26	0.69	2.38	1.87
6.55	2.59	2.01	1.88	0.33	3.26	0.88	6.87	0.51
19.83	6.09	7.96	1.04	2.14	3.29	3.29	1.22	1.82
2.50	0.30	1.40	3.60	1.02	3.30	3.71	0.32	2.29

4.43	0.31	1.51	2.14	0.48	3.33	3.12	2.59	32.34
248.19	135.94	141.36	18.49	5.81	3.34	0.55	0.47	1.59
358.03	135.29	77.95	19.52	18.29	3.34	1.62	3.68	2.04
46.72	18.85	6.01	0.75	0.98	3.35	6.84	0.52	0.89
13.40	2.99	4.60	1.51	1.10	3.35	0.45	1.18	2.10
11.35	3.09	2.24	1.77	3.97	3.35	7.76	8.21	1.24
5.91	1.65	1.23	0.80	2.52	3.46	1.67	1.92	38.43
12.71	3.55	3.81	0.58	1.58	3.49	1.96	0.97	2.22
22.99	7.11	4.31	4.21	3.67	3.51	3.78	5.46	84.01
15.62	6.01	3.89	1.08	2.10	3.61	0.65	1.45	15.24
5.46	2.65	2.32	1.37	1.16	3.63	1.96	1.25	0.20
3.65	1.08	0.91	0.92	1.15	3.74	7.24	6.21	1.52
1.34	5.00	2.20	1.58	4.46	3.74	0.97	0.29	1.92
2.02	1.08	0.20	1.72	1.78	3.83	0.52	0.64	2.29
40.98	8.33	9.13	4.07	2.85	3.84	0.95	3.47	2.10
156.03	50.38	33.65	1.48	0.95	3.91	2.84	1.19	21.44
5.35	0.34	1.45	1.10	0.43	4.16	1.42	4.21	3.84
2.29	0.29	0.94	5.35	1.85	4.22	0.65	4.72	2.35
20.04	13.25	2.19	1.17	2.40	4.23	1.26	1.73	16.47
3.94	0.28	1.13	1.14	0.90	4.26	2.68	11.77	2.86
3.53	0.83	0.45	0.94	0.74	5.44	0.39	1.06	3.28
319.36	63.17	45.84	3.47	7.71	5.60	34.31	1.90	2.49
71.26	119.02	204.73	214.11	260.62	5.75	0.64	4.83	2.80
2.82	0.20	0.70	0.86	1.37	6.08	0.25	0.47	3.38
4.96	0.43	0.91	1.31	0.48	6.10	9.42	0.55	1.66
36.08	5.54	4.68	1.21	0.98	6.95	0.90	2.71	3.96
5.28	1.11	0.56	2.11	2.61	7.58	77.69	0.75	6.14
126.12	17.74	16.68	8.76	1.29	7.63	2.57	1.10	6.89
4.83	0.78	0.46	0.05	0.77	10.85	6.04	2.63	10.03
5.99	0.20	0.71	4.18	3.64	11.85	0.91	3.76	18.70

























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