

Table S5. **Cbx4-dependent Polycomb targets in mouse epidermal progenitor cells**

Gene name	Description	CBX4KO versus WT	Cbx4 ChIP-seq peak start	Cbx4 ChIP-seq peak end	H3K27me3 ChIP-seq peak start	H3K27me3 ChIP-seq peak end
Abca8b	ATP-binding cassette, sub-family A (ABC1), member 8b (Abca8b) [NM_013851]	6.7	109891303	109892702	109892065	109893060
<i>Abcb4</i>	ATP-binding cassette, sub-family B (MDR/TAP), member 4 (Abcb4) [NM_008830]	166.7	8861441	8862016	8893021	8894618
<i>Ablim1</i>	actin-binding LIM protein 1	3.8	57377643	57378322	57396863	57400086
<i>Acaa2</i>	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase) (Acaa2), nuclear gene encoding mitochondrial protein [NM_177470]	4.1	74965315	74965865	74958473	74960177
<i>Acacb</i>	acetyl-Coenzyme A carboxylase beta (Acacb) [NM_133904]	2.2	114614986	114615883	114595162	114596740
<i>Accn1</i>	amiloride-sensitive cation channel 1, neuronal (degenerin) (Accn1), transcript variant MDEG2 [NM_007384]	4.9	81757576	81758271	81779017	81782808
<i>Acot12</i>	acyl-CoA thioesterase 12 (Acot12) [NM_028790]	6.7	91877528	91878424	91880131	91881976
<i>Actr3b</i>	ARP3 actin-related protein 3B	12.7	25274562	25275337	25319588	25321790
<i>Adam1b</i>	a disintegrin and metallopeptidase domain 1b (Adam1b) [NM_172125]	2.2	121943925	121945418	121952680	121954960
<i>Adam23</i>	a disintegrin and metallopeptidase domain 23 (Adam23), [NM_011780]	26.8	63504710	63505387	63491467	63493602
<i>Adar</i>	adenosine deaminase, RNA-specific (Adar), [NM_001038587]	2.1	89428375	89429316	89538275	89541141
<i>Adck1</i>	aarF domain containing kinase 1	4	89609890	89611017	89619351	89620799
Adck3	aarF domain containing kinase 3 (Adck3), nuclear gene encoding mitochondrial protein, [NM_023341]	59.7	182144228	182145215	182144274	182147470
<i>Adcy1</i>	adenylate cyclase 1 (Adcy1) [NM_009622]	6.1	7001305	7002626	6962317	6969103
<i>Adcy5</i>	adenylate cyclase 5 (Adcy5) [NM_001012765]	8.3	35093984	35094713	35152404	35162296
<i>Adora2a</i>	adenosine A2a receptor (Adora2a) [NM_009630]	3	74811436	74812183	74766682	74768072
<i>Adra1a</i>	adrenergic receptor, alpha 1a (Adra1a) [NM_013461]	4.7	67326057	67326796	67253722	67257789
Agap2	ArfGAP with GTPase domain, ankyrin repeat and PH domain 2 (Agap2) [NM_001033263]	248.9	126511962	126513078	126511826	126523218
<i>Agtr1a</i>	angiotensin II receptor, type 1a (Agtr1a) [NM_177322]	37.7	30431640	30432259	30426387	30427318
<i>Agxt2l1</i>	alanine-glyoxylate aminotransferase 2-like 1 (Agxt2l1), [NM_027907]	2.8	130240502	130241157	130319828	130321096
<i>Ajap1</i>	adherens junction associated protein 1 (Ajap1) [NM_001099299]	236.6	152828273	152829100	152860367	152864210
<i>Aldh1a3</i>	aldehyde dehydrogenase family 1, subfamily A3 (Aldh1a3) [NM_053080]	11.1	73659237	73659977	73571152	73574988
<i>Alk</i>	anaplastic lymphoma kinase	3.7	73011067	73011737	72951844	72954641
Ambra1	autophagy/beclin 1 regulator 1 (Ambra1), [NM_172669]	2.5	91612175	91613104	91612325	91614178
<i>Amfr</i>	autocrine motility factor receptor (Amfr) [NM_011787]	4.4	96547791	96548361	96496004	96499340
<i>Amz1</i>	archaelysin family metallopeptidase 1 (Amz1) [NM_173405]	7.1	141234507	141237202	141218947	141221387
<i>Ank1</i>	ankyrin 1, erythroid (Ank1), [NM_031158]	4.5	24114223	24115251	24087878	24089725
<i>Ank3</i>	ankyrin 3, epithelial (Ank3), [NM_146005]	11.2	69074432	69075199	68961340	68962442
<i>Ankrd13a</i>	ankyrin repeat domain 13a (Ankrd13a) [NM_026718]	2.3	115206985	115208253	115211903	115213547
<i>Ankrd44</i>	ankyrin repeat domain 44	3.7	54995259	54995957	54924791	54925936
<i>Anp32a</i>	acidic (leucine-rich) nuclear phosphoprotein 32 family, member A (Anp32a) [NM_009672]	2.5	62163331	62164009	62194574	62198289
Antxr1	anthrax toxin receptor 1 (Antxr1) [NM_054041]	3.5	87277754	87278579	87276656	87279278
<i>Anxa3</i>	annexin A3 (Anxa3) [NM_013470]	2.2	97241590	97242268	97196666	97197675
<i>Aox1</i>	aldehyde oxidase 1 (Aox1) [NM_009676]	34	58081166	58081703	58111530	58112869
<i>Ap2s1</i>	adaptor-related protein complex 2, sigma 1 subunit (Ap2s1) [NM_198613]	3.5	17332099	17334982	17325884	17331369
<i>Ap3b2</i>	adaptor-related protein complex 3, beta 2 subunit (Ap3b2) [NM_021492]	488.9	88639909	88641241	88628780	88630699
<i>Ap3d1</i>	adaptor-related protein complex 3, delta 1 subunit (Ap3d1) [NM_007460]	247.7	80195050	80196513	80189143	80194171
<i>Apob</i>	apolipoprotein B (Apob) [NM_009693]	4.7	7994867	7995900	8068552	8069828
Apol8	apolipoprotein L 8	85.1	77582741	77584070	77582767	77584858
Aqp12	aquaporin 12 (Aqp12), [NM_177587]	5.4	94930097	94932003	94927326	94934262
<i>Arf1</i>	ADP-ribosylation factor 1 (Arf1), [NM_007476]	2.2	59065665	59066434	59050447	59059539
<i>Arhgap20</i>	Rho GTPase activating protein 20 (Arhgap20) [NM_175535]	66.1	51504719	51505324	51572515	51575490
<i>Arhgef7</i>	Rho guanine nucleotide exchange factor (GEF7) (Arhgef7), [NM_001113517]	9.9	11746678	11748148	11729934	11731640
<i>Arx</i>	aristaless related homeobox (Arx) [NM_007492]	3.3	90629174	90629640	90530192	90536461
<i>Atf1</i>	activating transcription factor 1 (Atf1) [NM_007497]	2	100009921	100011245	100012144	100013726
<i>Atp12a</i>	ATPase, H/K transporting, nongastric, alpha	177.1	56948986	56949621	56967874	56969530

<i>Atp1a2</i>	polypeptide (Atp12a) [NM_138652] ATPase, Na/K transporting, alpha 2 polypeptide (Atp1a2) [NM_178405]	31.7	174215183	174216559	174228984	174232036
<i>Atp2b1</i>	ATPase, Ca ⁺ transporting, plasma membrane 1 (Atp2b1) [NM_026482]	2.2	98464762	98465396	98199991	98201125
<i>AW554918</i>	expressed sequence AW554918 (AW554918) [NM_001033532]	2.4	25276175	25276980	25177026	25177956
<i>B230206H07Rik</i>	RIKEN cDNA B230206H07 gene (B230206H07Rik), non-coding RNA [NR_033532]	25.4	148540503	148542216	148540344	148544615
<i>B3gat2</i>	beta-1,3-glucuronyltransferase 2 (glucuronosyltransferase S) (B3gat2) [NM_172124]	5.3	23773502	23774309	23767388	23771402
<i>BC018507</i>	cDNA sequence BC018507 (BC018507) [NM_144837]	4.2	70686081	70686844	70741015	70745284
<i>BC051665</i>	cDNA sequence BC051665 (BC051665) [NM_199148]	21.4	60853246	60854165	60861555	60863611
<i>Brap</i>	BRCA1-associated protein (Brap) [NM_028227]	2.3	122116137	122116861	122126705	122127577
<i>Brms1l</i>	breast cancer metastasis-suppressor 1-like (Brms1l) [NM_001037756]	5.5	56941393	56941929	56961074	56962599
<i>Bves</i>	blood vessel epicardial substance (Bves) [NM_024285]	7.1	45071163	45072319	45054060	45056212
<i>C030034L19Rik</i>	RIKEN cDNA C030034L19 gene	3.3	9450459	9451109	9431918	9433424
<i>C130022K22Rik</i>	RIKEN cDNA C130022K22 gene (C130022K22Rik) [NM_172730]	2.8	91815338	91816125	91812562	91816568
<i>C1ql2</i>	complement component 1, q subcomponent-like 2 (C1ql2) [NM_207233]	3.8	122278908	122279671	122234088	122240580
<i>C1qtnf9</i>	C1q and tumor necrosis factor-related protein 9 (C1qtnf9) [NM_183175]	11.1	61379361	61381649	61383482	61386250
<i>C2cd4b</i>	C2 calcium-dependent domain containing 4B (C2cd4b) [NM_001081314]	24.1	67517459	67518828	67606625	67609182
<i>C8b</i>	complement component 8, beta polypeptide (C8b) [NM_133882]	28.4	104445025	104445790	104433442	104434707
<i>Cacng1</i>	calcium channel, voltage-dependent, gamma subunit 1 (Cacng1) [NM_007582]	3.4	107585222	107586059	107564348	107568533
<i>Cacng8</i>	calcium channel, voltage-dependent, gamma subunit 8 (Cacng8) [NM_133190]	12.2	3368691	3369298	3364555	3367964
<i>Calcr</i>	calcitonin receptor (Calcr), b [NM_007588]	9.4	3713254	3714814	3713068	3714926
<i>Cartpt</i>	CART prepropeptide (Cartpt), [NM_013732]	2.1	100715390	100716040	100668533	100671536
<i>Casc1</i>	cancer susceptibility candidate 1	2.8	145144930	145145695	145153407	145154461
<i>Cbr4</i>	carbonyl reductase 4 (Cbr4) [NM_145595]	5.7	64043033	64043783	63937548	63940073
<i>Ccbe1</i>	collagen and calcium binding EGF domains 1 (Ccbe1) [NM_178793]	2.1	66523434	66524483	66502971	66503954
<i>Ccdc90a</i>	coiled-coil domain containing 90A (Ccdc90a) [NM_001081059]	56.1	43644896	43645907	43666384	43668002
<i>Cd93</i>	CD93 antigen (Cd93) [NM_010740]	4.1	148275308	148275952	148266593	148269840
<i>Cdc7</i>	cell division cycle 7 (<i>S. cerevisiae</i>) (Cdc7) [NM_009863]	2.3	107484048	107484897	107431942	107433569
<i>Cdca7l</i>	cell division cycle-associated 7 like (Cdca7l) [NM_146040]	10.6	118974676	118975352	119008545	119010548
<i>Cdh4</i>	cadherin 4 (Cdh4) [NM_009867]	4.2	179203401	179205682	179174839	179180146
<i>Cdkal1</i>	CDK5 regulatory subunit associated protein 1-like 1 (Cdkal1) [NM_144536]	4.4	29925470	29926121	29794265	29795233
<i>Cdon</i>	cell adhesion molecule-related/down-regulated by oncogenes (Cdon) [NM_021339]	3.3	35216184	35216898	35220568	35221663
<i>Cdyl2</i>	chromodomain protein, Y chromosome-like 2 (Cdyl2) [NM_029441]	3.3	119262013	119262804	119173633	119175303
<i>Ceacam19</i>	carcinoembryonic antigen-related cell adhesion molecule 19 (Ceacam19) [NM_177036]	6.5	20462795	20464540	20461980	20464753
<i>Cenpf</i>	centromere protein F (Cenpf) [NM_001081363]	2.2	191509464	191510229	191503124	191504092
<i>Cfi</i>	complement component factor i (Cfi) [NM_007686]	160.6	129552535	129553190	129550224	129551018
<i>Chgb</i>	chromogranin B (Chgb) [NM_007694]	5.2	132590732	132591513	132606618	132608242
<i>Chmp2b</i>	charged multivesicular body protein 2B (Chmp2b) [NM_026879]	2.1	65544952	65545623	65571578	65573518
<i>Chordc1</i>	cysteine and histidine-rich domain (CHORD)-containing, zinc-binding protein 1 (Chordc1) [NM_025844]	6.4	18104353	18105271	18061695	18062878
<i>Chst12</i>	carbohydrate sulfotransferase 12 (Chst12) [NM_021528]	3.1	140964970	140966161	140968380	140970431
<i>Ckmt2</i>	creatine kinase, mitochondrial 2 (Ckmt2), nuclear gene encoding mitochondrial protein [NM_198415]	227.5	92028986	92030308	92048170	92050072
<i>Clec16a</i>	C-type lectin domain family 16, member A (Clec16a), [NM_177562]	5.9	10609925	10611544	10609803	10611867
<i>Clic6</i>	chloride intracellular channel 6 (Clic6), nuclear gene encoding mitochondrial protein [NM_172469]	2.6	92524818	92526178	92497451	92500215
<i>Cln8</i>	ceroid-lipofuscinosis, neuronal 8 (Cln8) [NM_012000]	3.6	14838933	14840129	14839039	14840931
<i>Clybl</i>	citrate lyase beta like (Clybl) [NM_029556]	24.8	122632308	122633329	122570818	122572191
<i>Cnksr3</i>	Cnksr family member 3 (Cnksr3) [NM_172546]	6.6	3082532	3083144	3150511	3151976
<i>Cnr1</i>	cannabinoid receptor 1 (brain) (Cnr1) [NM_007726]	2.3	34030786	34032028	33994635	33995767
<i>Cntn3</i>	contactin 3 (Cntn3) [NM_008779]	2.4	102347283	102347929	102513536	102514888
<i>Cog2</i>	component of oligomeric Golgi complex 2 (Cog2)	2.9	127022129	127022902	127034487	127035569

	[NM_029746]					
<i>Cog6</i>	component of oligomeric Golgi complex 6 (Cog6) [NM_026225]	2.9	52756565	52757205	52802557	52803626
<i>Cog7</i>	component of oligomeric Golgi complex 7 (Cog7) [NM_001033318]	2.8	129094610	129095548	129143257	129144577
<i>Col13a1</i>	collagen, type XIII, alpha 1 (Col13a1) [NM_007731]	12	61418621	61420135	61435861	61443604
<i>Col14a1</i>	collagen, type XIV, alpha 1 (Col14a1) [NM_181277]	20.1	55185084	55185863	55137772	55141026
<i>Corin</i>	corin (Corin), [NM_016869]	25.1	72911176	72911830	72893988	72896415
<i>Cpn2</i>	carboxypeptidase N, polypeptide 2 (Cpn2) [NM_027904]	137.6	30265239	30266075	30256568	30261523
<i>Cryz</i>	crystallin, zeta (Cryz) [NM_009968]	4.9	154243017	154243626	154210360	154211601
<i>Ctdp1</i>	CTD (C-terminal domain, RNA polymerase II, polypeptide A) phosphatase, subunit 1 (Ctdp1) [NM_026295]	25	80673132	80674222	80687731	80689822
<i>Ctnnd2</i>	catenin (cadherin-associated protein), delta 2 (Ctnnd2) [NM_008729]	6.2	30143203	30144130	30101375	30104103
<i>Cttn</i>	cortactin (Cttn), [NM_007803]	3.2	151661814	151662852	151685467	151688252
<i>Cutc</i>	cutC copper transporter homolog (<i>E. coli</i>) (Cutc), [NM_025530]	2.2	43813760	43815051	43808161	43809621
<i>Cwc15</i>	CWC15 homolog (<i>S. cerevisiae</i>)	5.8	14337063	14338038	14359806	14363422
<i>Cxcl12</i>	chemokine (C-X-C motif) ligand 12 (Cxcl12), [NM_001012477]	3.5	117099526	117100316	117115608	117120445
<i>Cyb5b</i>	cytochrome b5 type B (Cyb5b), nuclear gene encoding mitochondrial protein [NM_025558]	70.8	109677019	109678238	109728409	109730754
<i>Cybrd1</i>	cytochrome b reductase 1 (Cybrd1) [NM_028593]	5.1	70983557	70984457	70981996	70984566
<i>Cyp19a1</i>	cytochrome P450, family 19, subfamily a, polypeptide 1 (Cyp19a1) [NM_007810]	347.4	54123560	54124297	54117520	54119036
<i>Cyp2d22</i>	cytochrome P450, family 2, subfamily d, polypeptide 22 (Cyp2d22), [NM_001163472]	2.4	82201202	82202492	82202769	82205394
<i>Cyp2d34</i>	cytochrome P450, family 2, subfamily d, polypeptide 34 (Cyp2d34) [NM_145474]	18.7	82467890	82468596	82467079	82468837
<i>Cyp2d9</i>	cytochrome P450, family 2, subfamily d, polypeptide 9 (Cyp2d9) [NM_010006]	5.3	82293841	82294608	82271331	82273179
<i>Cyp4f15</i>	cytochrome P450, family 4, subfamily f, polypeptide 15 (Cyp4f15) [NM_134127]	2.4	32812210	32813491	32812335	32813859
<i>D030016E14Rik</i>	RIKEN cDNA D030016E14 gene (D030016E14Rik) [NM_177240]	325.4	48602856	48603637	48590517	48591751
<i>D10Wsu102e</i>	DNA segment, Chr 10, Wayne State University 102, expressed (D10Wsu102e) [NM_026579]	2.9	82867774	82868986	82867602	82868637
<i>D1Pas1</i>	DNA segment, Chr 1, Pasteur Institute 1 (D1Pas1) [NM_033077]	2	188776272	188777281	188809717	188810850
<i>D3Bwg0562e</i>	DNA segment, Chr 3, Brigham & Women's Genetics 0562 expressed (D3Bwg0562e) [NM_177664]	41	117062581	117063640	117062406	117064002
<i>D6Wsu163e</i>	DNA segment, Chr 6, Wayne State University 163, expressed	5.8	126892081	126893185	126902043	126904143
<i>Daam2</i>	dishevelled associated activator of morphogenesis 2 (Daam2) [NM_001008231]	4.7	49684920	49685951	49701309	49704335
<i>Dab1</i>	disabled homolog 1 (<i>Drosophila</i>) (Dab1), [NM_177259]	3.5	103350573	103351235	103291416	103294850
<i>Dact2</i>	dapper homolog 2, antagonist of beta-catenin (<i>Xenopus</i>) (Dact2) [NM_172826]	2.2	14312879	14313924	14332072	14335590
<i>Daglb</i>	diacylglycerol lipase, beta	15	144255269	144255881	144247629	144251414
<i>Dao</i>	D-amino acid oxidase (Dao) [NM_010018]	4.3	114459657	114460264	114457662	114458898
<i>Dcaf12l2</i>	DDB1 and CUL4 associated factor 12-like 2 (Dcaf12l2) [NM_175539]	4.5	41726488	41726946	41720324	41722088
<i>Dclre1a</i>	DNA cross-link repair 1A, PSO2 homolog (<i>S.</i> <i>cerevisiae</i>) (Dclre1a) [NM_018831]	2.1	56601784	56602327	56611934	56612796
<i>Dcp1a</i>	DCP1 decapping enzyme homolog A (<i>S. cerevisiae</i>) (Dcp1a) [NM_133761]	9.3	31220319	31221039	31166631	31168523
<i>Ddo</i>	D-aspartate oxidase (Ddo) [NM_027442]	58.6	40327973	40328676	40349692	40351899
<i>Dhrs7c</i>	dehydrogenase/reductase (SDR family) member 7C (Dhrs7c) [NM_001013013]	11.1	67629030	67630007	67627501	67629907
<i>Dhtkd1</i>	dehydrogenase E1 and transketolase domain containing 1	3.8	5853060	5853953	5848197	5851089
<i>Dhx15</i>	DEAH (Asp-Glu-Ala-His) box polypeptide 15 (Dhx15), [NM_007839]	2.7	52492375	52493572	52519619	52520751
<i>Dio3os</i>	deiodinase, iodothyronine type III, opposite strand (Dio3os), non-coding RNA [NR_002866]	128.5	111481076	111482560	111512540	111521526
<i>Dirc2</i>	disrupted in renal carcinoma 2 (human) (Dirc2) [NM_153550]	2.8	35763802	35764494	35749125	35750301
<i>DIK1</i>	delta-like 1 homolog (<i>Drosophila</i>)	16.3	110697606	110698629	110690011	110699920
<i>Dmrt2</i>	doublesex and mab-3 related transcription factor 2 (Dmrt2) [NM_145831]	41.7	25735078	25735740	25724174	25725445
<i>Dmrt3</i>	doublesex and mab-3 related transcription factor 3 (Dmrt3) [NM_177360]	3.3	25712535	25713239	25689401	25690588
<i>Dock4</i>	dedicator of cytokinesis 4 (Dock4) [NM_172803]	11.4	41255227	41255892	41225286	41226753
<i>Dock5</i>	dedicator of cytokinesis 5 (Dock5) [NM_177780]	103.7	68593078	68593625	68569101	68570132

<i>Dpf3</i>	D4, zinc and double PHD fingers, family 3 (Dpf3) [NM_058212]	7.2	84432221	84433547	84441161	84444461
<i>Dpysl3</i>	dihydropyrimidinase-like 3 (Dpysl3), [NM_009468]	2.6	43613083	43613553	43596761	43598667
<i>Dtx1</i>	deltex 1 homolog (<i>Drosophila</i>) (Dtx1) [NM_008052]	2.3	121172131	121172947	121168645	121171409
<i>Dusp26</i>	dual specificity phosphatase 26 (putative) (Dusp26) [NM_025869]	9.3	32144360	32145495	32198334	32202891
<i>Dync1i1</i>	dynein cytoplasmic 1 intermediate chain 1 (Dync1i1), [NM_010063]	67.3	5683181	5683938	5675465	5676737
<i>E130203B14Rik</i>	RIKEN cDNA E130203B14 gene (E130203B14Rik) [NM_178791]	5.5	33682521	33683419	33671171	33675274
<i>E2f6</i>	E2F transcription factor 6 (E2f6), [NM_033270]	2.6	16828581	16829921	16831444	16832670
<i>Ebf3</i>	early B-cell factor 3 (Ebf3), [NM_010096]	2.8	144495309	144496028	144500235	144502964
<i>Eepd1</i>	endonuclease/exonuclease/phosphatase family domain containing 1 (Eepd1) [NM_026189]	5.7	25294873	25295942	25183958	25186420
<i>Efna5</i>	ephrin A5 (Efna5), [NM_010109]	2.4	62971932	62972586	63275746	63277334
<i>Efnb2</i>	ephrin B2 (Efnb2) [NM_010111]	2.1	8583574	8584431	8576063	8577627
<i>Ehd3</i>	EH-domain containing 3 (Ehd3) [NM_020578]	306.9	74148635	74149444	74153492	74155306
<i>Eif2ak4</i>	eukaryotic translation initiation factor 2 alpha kinase 4 (Eif2ak4), [NM_013719]	9.1	118233731	118234519	118233068	118234731
<i>Eif2s2</i>	eukaryotic translation initiation factor 2, subunit 2 (beta) (Eif2s2) [NM_026030]	5.2	154750435	154751031	154766880	154769061
<i>Eif4g2</i>	eukaryotic translation initiation factor 4, gamma 2 (Eif4g2), [NM_013507]	5.2	118317135	118318392	118353426	118356815
<i>Elov15</i>	ELOVL family member 5, elongation of long chain fatty acids (yeast) (Elov15) [NM_134255]	30.5	77733902	77734540	77771344	77772606
<i>Eml4</i>	echinoderm microtubule associated protein like 4 (Eml4), [NM_199466]	7.1	83801565	83802967	83801718	83802865
<i>Emr1</i>	EGF-like module containing, mucin-like, hormone receptor-like sequence 1 (Emr1) [NM_010130]	5.1	57559259	57560072	57483307	57484654
<i>Emx2</i>	empty spiracles homolog 2 (<i>Drosophila</i>) (Emx2) [NM_010132]	2	59610969	59611504	59541418	59547500
<i>En2</i>	engrailed 2 (En2) [NM_010134]	189.5	28484078	28486270	28481211	28488209
<i>Enpep</i>	glutamyl aminopeptidase (Enpep) [NM_007934]	18	129034175	129035102	129034285	129035969
<i>Epb4.1l2</i>	erythrocyte protein band 4.1-like 2 (Epb4.1l2), [NM_013511]	4.3	25053949	25054854	25154141	25155133
<i>Epb4.1l3</i>	erythrocyte protein band 4.1-like 3	3	69448130	69449437	69456776	69458413
<i>Epb4.1l4a</i>	erythrocyte protein band 4.1-like 4a (Epb4.1l4a) [NM_013512]	139.6	34132656	34133232	34145201	34148943
<i>Esd</i>	esterase D/formylglutathione hydrolase (Esd) [NM_016903]	11.9	75154806	75155736	75117393	75118826
<i>Exoc6</i>	exocyst complex component 6	7.4	37641605	37642303	37643554	37644547
<i>Eya1</i>	eyes absent 1 homolog (<i>Drosophila</i>) (Eya1), [NM_010164]	2.6	14358181	14358709	14269082	14270000
<i>Eya4</i>	eyes absent 4 homolog (<i>Drosophila</i>)	14.5	23010080	23010634	23067603	23070902
<i>Fabp1</i>	fatty acid-binding protein 1, liver (Fabp1) [NM_017399]	13.1	71166592	71167421	71147233	71149277
<i>Fads2</i>	fatty acid desaturase 2 (Fads2) [NM_019699]	2.2	10202221	10202877	10174289	10177255
<i>Fam123a</i>	family with sequence similarity 123, member A (Fam123a), [NM_028113]	2.5	60940404	60941073	60995935	60999444
<i>Fam13c</i>	family with sequence similarity 13, member C (Fam13c), [NM_024244]	2.1	69915365	69915978	69913619	69914682
<i>Fam161b</i>	family with sequence similarity 161, member B (Fam161b) [NM_172581]	28.2	85713821	85714727	85711867	85714774
<i>Fam168b</i>	family with sequence similarity 168, member B (Fam168b), [NM_174997]	2.9	34874041	34875605	34879765	34881931
<i>Fam46c</i>	family with sequence similarity 46, member C (Fam46c) [NM_001142952]	24.4	100273078	100273897	100275638	100277848
<i>Fam53a</i>	family with sequence similarity 53, member A (Fam53a) [NM_178390]	2.4	33967496	33968596	33954329	33956309
<i>Fam76a</i>	family with sequence similarity 76, member A (Fam76a), [NM_145553]	2.2	132467943	132469029	132459804	132461821
<i>Far1</i>	fatty acyl CoA reductase 1	4.4	120649689	120650486	120649807	120650730
<i>Fat3</i>	FAT tumor suppressor homolog 3 (<i>Drosophila</i>) (Fat3) [NM_001080814]	123.6	16122213	16122902	16128450	16129617
<i>Fbxl17</i>	F-box and leucine-rich repeat protein 17 (Fbxl17) [NM_015794]	6.9	63881495	63882060	63772994	63774019
<i>Fbxl22</i>	F-box and leucine-rich repeat protein 22 (Fbxl22) [NM_175206]	7.6	66307520	66308341	66351473	66353912
<i>Fbxo10</i>	F-box protein 10 (Fbxo10) [NM_001024142]	97.8	45090369	45091208	45084181	45085647
<i>Fer1l4</i>	fer-1-like 4 (<i>C. elegans</i>) (Fer1l4) [NM_001136556]	3.3	155862521	155863473	155867863	155875932
<i>Fez1</i>	fasciculation and elongation protein zeta 1 (zygin I)	2.2	36672756	36673308	36639755	36642362
<i>Ffar2</i>	free fatty acid receptor 2 (Ffar2), [NM_146187]	197.3	31614394	31615194	31617204	31618194
<i>Fgf5</i>	fibroblast growth factor 5 (Fgf5) [NM_010203]	67.3	98703007	98703809	98684254	98685884
<i>Fgf7</i>	fibroblast growth factor 7 (Fgf7) [NM_008008]	12.5	125800809	125801659	125854461	125855509
<i>Fgfr2</i>	fibroblast growth factor receptor 2 (Fgfr2), [NM_010207]	6.1	140244618	140245749	140260858	140264353
<i>Fgg</i>	fibrinogen gamma chain (Fgg) [NM_133862]	133.5	82816301	82817057	82798474	82800174

<i>Figl1</i>	fidgetin-like 1 (<i>Figl1</i>), [NM_021891]	4.5	11685597	11686692	11676316	11677899
<i>Flt1</i>	FMS-like tyrosine kinase 1	8.7	148441802	148443646	148536080	148539631
<i>Fndc1</i>	fibronectin type III domain containing 1 (<i>Fndc1</i>) [NM_001081416]	2.1	7963942	7965415	8017678	8021460
<i>Fndc3c1</i>	fibronectin type III domain containing 3C1 (<i>Fndc3c1</i>) [NM_001007580]	44.1	103704651	103705485	103680247	103681824
<i>Foxc1</i>	forkhead box C1 (<i>Foxc1</i>) [NM_008592]	7.6	31931485	31932573	31897160	31900990
<i>Foxp2</i>	forkhead box P2 (<i>Foxp2</i>), [NM_053242]	2.4	14781006	14781545	14847899	14852567
<i>Fras1</i>	Fraser syndrome 1 homolog (human) (<i>Fras1</i>) [NM_175473]	2.2	96776911	96777726	96867388	96869253
<i>Frmd6</i>	FERM domain containing 6 (<i>Frmd6</i>) [NM_028127]	3.5	71865200	71865693	71978532	71980073
<i>Frmpd3</i>	FERM and PDZ domain containing 3 (<i>Frmpd3</i>) [NM_177750]	2	136940795	136941515	136876324	136877842
<i>Ftcd</i>	formiminotransferase cyclodeaminase (<i>Ftcd</i>) [NM_080845]	8.7	76043682	76044823	76037615	76040120
<i>Fth1</i>	ferritin heavy chain 1 (<i>Fth1</i>) [NM_010239]	2.6	10045629	10046267	10028630	10029974
<i>Fzd5</i>	frizzled homolog 5 (<i>Drosophila</i>) (<i>Fzd5</i>), [NM_022721]	169.7	64790734	64791806	64835737	64838617
<i>Gap43</i>	growth associated protein 43 (<i>Gap43</i>) [NM_008083]	4.6	42371712	42372773	42291701	42292758
<i>Gcap14</i>	granule cell antiserum positive 14 (<i>Gcap14</i>), [NM_027045]	2.6	37799652	37800232	37787539	37788428
<i>Gdf10</i>	growth differentiation factor 10 (<i>Gdf10</i>) [NM_145741]	264.5	34727870	34728822	34735754	34739801
<i>Ggnbp1</i>	gametogenetin-binding protein 1	8.7	27123211	27124686	27124988	27126470
<i>Gja8</i>	gap junction protein, alpha 8 (<i>Gja8</i>) [NM_008123]	3.9	96733623	96735186	96722522	96724563
<i>Gli3</i>	GLI-Kruppel family member GLI3 (<i>Gli3</i>) [NM_008130]	3.1	15471609	15472464	15494123	15495767
<i>Gm12824</i>	predicted gene 12824 (<i>Gm12824</i>) [NM_001085549]	62.1	114149735	114151297	114077993	114080364
<i>Gm16532</i>	predicted gene, 16532 (<i>Gm16532</i>) [NM_001134752]	2.7	6376965	6378458	6367308	6368886
<i>Gm608</i>	predicted gene 608 (<i>Gm608</i>) [NM_001029889]	8	44188670	44189320	44218289	44220169
<i>Gm9725</i>	predicted gene 9725	3.6	83509006	83510432	83509359	83510823
<i>Gmpr</i>	guanosine monophosphate reductase (<i>Gmpr</i>) [NM_025508]	18.9	45687147	45687983	45610018	45612918
<i>Got1</i>	glutamate oxaloacetate transaminase 1, soluble (<i>Got1</i>) [NM_010324]	19.7	43578850	43580519	43578258	43580563
<i>Got2</i>	glutamate oxaloacetate transaminase 2, mitochondrial (<i>Got2</i>), nuclear gene encoding mitochondrial protein [NM_010325]	6.4	98447328	98448179	98431423	98433231
<i>Gprc5b</i>	G protein-coupled receptor, family C, group 5, member B (<i>Gprc5b</i>), [NM_022420]	6.9	126147152	126148348	126153522	126156515
<i>Grem2</i>	gremlin 2 homolog, cysteine knot superfamily (<i>Xenopus laevis</i>) (<i>Grem2</i>) [NM_011825]	3.2	176847002	176847697	176851288	176852334
<i>Gria1</i>	glutamate receptor, ionotropic, AMPA1 (alpha 1) (<i>Gria1</i>), [NM_008165]	4.2	56823863	56824708	56824380	56825801
<i>Grik4</i>	glutamate receptor, ionotropic, kainate 4 (<i>Grik4</i>) [NM_175481]	3.6	42798533	42799104	42757679	42759815
<i>Gsdmc</i>	gasdermin C (<i>Gsdmc</i>) [NM_031378]	2	63579928	63580597	63527330	63528145
<i>Gstm4</i>	glutathione S-transferase, mu 4 (<i>Gstm4</i>), [NM_026764]	4.9	107854243	107854753	107864574	107866436
<i>Gtl3</i>	gene trap locus 3 (<i>Gtl3</i>) [NM_008187]	2.8	97970049	97971667	97934524	97936098
<i>Gucy1b3</i>	guanylate cyclase 1, soluble, beta 3 (<i>Gucy1b3</i>), [NM_017469]	4.1	81868751	81869356	81877314	81879142
<i>Gypc</i>	glycophorin C (<i>Gypc</i>) [NM_001048207]	23.8	32702088	32704674	32690768	32692830
<i>Hacl1</i>	2-hydroxyacyl-CoA lyase 1 (<i>Hacl1</i>) [NM_019975]	4	32507537	32508222	32466193	32467519
<i>Haus4</i>	HAUS augmin-like complex, subunit 4 (<i>Haus4</i>) [NM_145462]	2.3	55162348	55163437	55162093	55163987
<i>Hcfc1</i>	host cell factor C1 (<i>Hcfc1</i>) [NM_008224]	3	71209501	71210509	71192416	71196314
<i>Hdgfrp3</i>	hepatoma-derived growth factor, related protein 3 (<i>Hdgfrp3</i>) [NM_013886]	17.3	89052416	89053205	89052101	89053290
<i>Hif1an</i>	hypoxia-inducible factor 1, alpha subunit inhibitor (<i>Hif1an</i>) [NM_176958]	3.8	44675593	44676812	44645343	44651562
<i>Hmgb4</i>	high-mobility group box 4 (<i>Hmgb4</i>) [NM_027036]	117.2	127927410	127929302	127927511	127929291
<i>Hn1l</i>	hematological and neurological expressed 1-like	6.4	25123815	25125476	25118794	25120892
<i>Hpd</i>	4-hydroxyphenylpyruvic acid dioxygenase (<i>Hpd</i>) [NM_008277]	7.2	123651473	123652482	123630110	123633222
<i>Hs3st2</i>	heparan sulfate (glucosamine) 3-O-sulfotransferase 2 (<i>Hs3st2</i>) [NM_001081327]	257.4	128540756	128541586	128534503	128537429
<i>Htr4</i>	5 hydroxytryptamine (serotonin) receptor 4 (<i>Htr4</i>) [NM_008313]	3.4	62544087	62544922	62482490	62485360
<i>Htr7</i>	5-hydroxytryptamine (serotonin) receptor 7 (<i>Htr7</i>) [NM_008315]	3.2	36076825	36077881	36130795	36132801
<i>Ido2</i>	indoleamine 2,3-dioxygenase 2 (<i>Ido2</i>) [NM_145949]	125.3	25671104	25672057	25655607	25658393
<i>Igf1r</i>	insulin-like growth factor I receptor (<i>Igf1r</i>) [NM_010513]	3.6	75052750	75053930	75066616	75067918
<i>Igfbp2</i>	insulin-like growth factor-binding protein 2 (<i>Igfbp2</i>) [NM_008342]	2.3	72831487	72832327	72859492	72860930
<i>Igfbp5</i>	insulin-like growth factor-binding protein 5 (<i>Igfbp5</i>) [NM_010518]	2.6	72902175	72904233	72901792	72904275

<i>Igfbp7</i>	insulin-like growth factor-binding protein 7 (<i>Igfbp7</i>), [NM_008048]	2.4	77845732	77846543	77836199	77837534
<i>Igsf3</i>	immunoglobulin superfamily, member 3 (<i>Igsf3</i>) [NM_207205]	9.2	101229171	101230573	101167051	101167990
<i>Ikzf1</i>	IKAROS family zinc finger 1 (<i>Ikzf1</i>), [NM_001025597]	2.6	11576327	11577006	11583999	11586982
<i>Il20rb</i>	interleukin 20 receptor beta	3.1	100321309	100322281	100347806	100351652
<i>Inhbb</i>	inhibin beta-B (<i>Inhbb</i>) [NM_008381]	6	121220753	121221963	121312397	121323426
<i>Irx1</i>	Iroquois related homeobox 1 (<i>Drosophila</i>) (<i>Irx1</i>) [NM_010573]	2.4	72008261	72008897	72137243	72138356
<i>Itpr1</i>	inositol 1,4,5-trisphosphate receptor 1 (<i>Itpr1</i>) [NM_010585]	5.6	108253257	108254218	108185448	108186597
<i>Jakmip3</i>	janus kinase and microtubule interacting protein 3 (<i>Jakmip3</i>) [NM_028708]	4.5	146147128	146148073	146130329	146134292
<i>Jam2</i>	junction adhesion molecule 2 (<i>Jam2</i>) [NM_023844]	2.4	84766817	84767863	84773436	84775983
<i>Jazf1</i>	JAZF zinc finger 1 (<i>Jazf1</i>), [NM_001168277]	4.4	53009608	53010264	53045518	53047507
<i>Jmjd1c</i>	jumonji domain containing 1C (<i>Jmjd1c</i>), [NM_001242396]	11.4	66486706	66487641	66501285	66502703
<i>Kalrn</i>	kalirin, RhoGEF kinase	8.2	34513770	34514770	34571523	34575143
<i>Kank4</i>	KN motif and ankyrin repeat domains 4 (<i>Kank4</i>) [NM_172872]	2.1	98478472	98479270	98481626	98484986
<i>Kcnh1</i>	potassium voltage-gated channel, subfamily H (eag-related), member 1 (<i>Kcnh1</i>), [NM_010600]	2.2	194089626	194091535	194013224	194016061
<i>Kcnq1</i>	potassium voltage-gated channel, subfamily Q, member 1 (<i>Kcnq1</i>) [NM_008434]	13.6	150345362	150346725	150290962	150299164
<i>Kidins220</i>	kinase D-interacting substrate 220	3.7	25623851	25624750	25625601	25628354
<i>Kin</i>	antigenic determinant of rec-A protein (<i>Kin</i>) [NM_025280]	6	10011737	10012497	10020916	10022905
<i>Kl</i>	klotho (<i>Kl</i>) [NM_013823]	2.1	151822790	151824028	151753829	151756806
<i>Klc1</i>	kinesin light chain 1 (<i>Klc1</i>), transcript variant a [NM_008450]	2.8	113011867	113013700	112999760	113003044
<i>Klk15</i>	Kallikrein-related peptidase 15 (<i>Klk15</i>) [NM_174865]	2.3	51189829	51190740	51182531	51184298
<i>L2hgdh</i>	L-2-hydroxyglutarate dehydrogenase (<i>L2hgdh</i>), nuclear gene encoding mitochondrial protein [NM_145443]	4.7	70805162	70805851	70804264	70805780
<i>L3mbtl4</i>	l(3)mbt-like 4 (<i>Drosophila</i>) (<i>L3mbtl4</i>) [NM_177278]	8.3	68565539	68566145	68622543	68624748
<i>Lca5</i>	Leber congenital amaurosis 5 (human) (<i>Lca5</i>), [NM_027448]	49.9	83287417	83288485	83336354	83338232
<i>Ldb3</i>	LIM domain-binding 3 (<i>Ldb3</i>), [NM_001039076]	12.7	35384535	35386246	35383474	35388061
<i>Lect2</i>	leukocyte cell-derived chemotaxin 2 (<i>Lect2</i>) [NM_010702]	5.8	56650581	56651621	56639930	56641278
<i>Lepr</i>	leptin receptor (<i>Lepr</i>), [NM_001122899]	3.5	101377837	101378416	101389624	101390924
<i>Lhx4</i>	LIM homeobox protein 4 (<i>Lhx4</i>) [NM_010712]	7.6	157608115	157610195	157597261	157600966
<i>Lonrf2</i>	LON peptidase N-terminal domain and ring finger 2	5.2	38876503	38877031	38892288	38894129
<i>Loxhd1</i>	lipoygenase homology domains 1 (<i>Loxhd1</i>) [NM_172834]	5.7	77530826	77532200	77546059	77548079
<i>Lpl</i>	lipoprotein lipase (<i>Lpl</i>) [NM_008509]	17.4	71398421	71399176	71439715	71440816
<i>Lrrc17</i>	leucine rich repeat-containing 17 (<i>Lrrc17</i>) [NM_028977]	8.6	21037971	21039401	21052128	21053584
<i>Lypd1</i>	Ly6/Plaur domain containing 1 (<i>Lypd1</i>) [NM_145100]	10.3	127859615	127860287	127806744	127810318
<i>Lysmd4</i>	LysM, putative peptidoglycan-binding, domain containing 4 (<i>Lysmd4</i>), transcript variant B [NM_175215]	4.5	74402698	74403340	74370565	74374961
<i>Lyz1</i>	lysozyme 1 (<i>Lyz1</i>) [NM_013590]	12.9	116733084	116733732	116760805	116761840
<i>Map2k6</i>	mitogen-activated protein kinase kinase 6	179.2	110288160	110288852	110270122	110271403
<i>Mapk8ip3</i>	mitogen-activated protein kinase 8 interacting protein 3	5.3	25066190	25067007	25060535	25062764
<i>Mbnl2</i>	muscleblind-like 2 (<i>Mbnl2</i>), [NM_175341]	10	120640871	120641782	120685157	120688978
<i>Me2</i>	malic enzyme 2, NAD(+)-dependent, mitochondrial (<i>Me2</i>), nuclear gene encoding mitochondrial protein [NM_145494]	4.2	73950219	73950944	73964203	73966118
<i>Mef2a</i>	myocyte enhancer factor 2A	2.8	74611293	74612542	74603472	74610028
<i>Mobp</i>	myelin-associated oligodendrocytic basic protein (<i>Mobp</i>), [NM_008614]	2.4	120057913	120058888	120057823	120058204
<i>Mpp6</i>	membrane protein, palmitoylated 6 (MAGUK p55 subfamily member 6) (<i>Mpp6</i>), [NM_019939]	14.7	50122416	50123001	50077025	50078009
<i>Mrps31</i>	mitochondrial ribosomal protein S31 (<i>Mrps31</i>), nuclear gene encoding mitochondrial protein [NM_020560]	3.9	23540121	23541454	23538276	23539706
<i>Msi2</i>	Musashi homolog 2 (<i>Drosophila</i>) (<i>Msi2</i>) [NM_054043]	337.3	88518467	88519509	88535906	88539975
<i>Mtr</i>	5-methyltetrahydrofolate-homocysteine methyltransferase (<i>Mtr</i>) [NM_001081128]	2.5	12287214	12287912	12371967	12373022
<i>Mvk</i>	mevalonate kinase (<i>Mvk</i>) [NM_023556]	3.3	114944871	114945964	114913708	114918189
<i>Myh10</i>	myosin, heavy polypeptide 10, non-muscle (<i>Myh10</i>) [NM_175260]	5.2	68515894	68516922	68504473	68507421
<i>Myh11</i>	myosin, heavy polypeptide 11, smooth muscle	210	14256302	14257046	14247607	14249400

	(Myh11), [NM_013607]					
<i>Myo18b</i>	myosin XVIIIb (Myo18b) [NM_028901]	12.9	113274311	113275702	113323254	113325971
<i>Myof</i>	myoferlin (Myof) [NM_001099634]	5.2	38064418	38065072	37975240	37976374
<i>Myom2</i>	myomesin 2 (Myom2) [NM_008664]	35.3	15071342	15072508	15062075	15064089
<i>Myoz2</i>	myozenin 2 (Myoz2) [NM_021503]	45.3	122768849	122769657	122815157	122817559
<i>Mypn</i>	myopalladin (Mypn) [NM_182992]	2.9	62667818	62668290	62641843	62642874
<i>Myt1l</i>	myelin transcription factor 1-like (Myt1l), [NM_001093775]	5.5	30227435	30228320	30217742	30218910
<i>N6amt1</i>	N-6 adenine-specific DNA methyltransferase 1 (putative) (N6amt1), [NM_026366]	2	87344364	87344934	87364603	87365850
<i>Nceh1</i>	arylacetamide deacetylase-like 1 (Nceh1) [NM_178772]	15.3	27083360	27084812	27140041	27141112
<i>Ndufa10</i>	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 10 (Ndufa10), nuclear gene encoding mitochondrial protein [NM_024197]	28.3	94285435	94286312	94335874	94337883
<i>Ndufs4</i>	NADH dehydrogenase (ubiquinone) Fe-S protein 4 (Ndufs4), nuclear gene encoding mitochondrial protein [NM_010887]	4.3	115205499	115205968	115015936	115018014
<i>Nefl</i>	neurofilament, light polypeptide	114.4	68719694	68720653	68700553	68703583
<i>Neurl1a</i>	neuralized homolog 1A (<i>Drosophila</i>) (Neurl1a), [NM_021360]	115.6	47340955	47343697	47272707	47278058
<i>Neurog3</i>	neurogenin 3 (Neurog3) [NM_009719]	2.3	61597781	61598205	61598214	61601237
<i>Nhlrc2</i>	NHL repeat containing 2 (Nhlrc2) [NM_025811]	2.3	56669000	56670066	56668860	56670686
<i>Nid2</i>	nidogen 2 (Nid2) [NM_008695]	2.1	20565626	20566556	20569511	20572273
<i>Nnt</i>	nicotinamide nucleotide transhydrogenase (Nnt), nuclear gene encoding mitochondrial protein, [NM_008710]	2.1	120115452	120116074	119974226	119975407
<i>Npas1</i>	neuronal PAS domain protein 1 (Npas1) [NM_008718]	2.3	17102916	17103985	17069471	17071861
<i>Npffr1</i>	neuropeptide FF receptor 1 (Npffr1) [NM_001177511]	2	61042759	61044727	61060244	61061792
<i>Nr2c1</i>	nuclear receptor subfamily 2, group C, member 1 (Nr2c1) [NM_011629]	42	93615075	93615782	93623712	93624921
<i>Nr5a1</i>	nuclear receptor subfamily 5, group A, member 1	287.5	38585787	38586956	38573100	38577039
<i>Nsg1</i>	neuron specific gene family member 1 (Nsg1) [NM_010942]	8.5	38565633	38567183	38555105	38559587
<i>Nt5dc3</i>	5'-nucleotidase domain containing 3 (Nt5dc3) [NM_175331]	16.9	86257433	86258331	86258485	86259833
<i>Ntsr2</i>	neurotensin receptor 2 (Ntsr2) [NM_008747]	120.7	16713871	16716406	16650161	16654444
<i>Nup133</i>	nucleoporin 133 (Nup133) [NM_172288]	2.5	126458922	126459882	126480630	126487454
<i>Nxph3</i>	neurexophilin 3 (Nxph3) [NM_130858]	2.2	95398542	95399698	95363289	95367036
<i>Olig2</i>	oligodendrocyte transcription factor 2 (Olig2) [NM_016967]	256.5	91199887	91200861	91211585	91213042
<i>Oxa1l</i>	oxidase assembly 1-like (Oxa1l) [NM_026936]	3.1	55004266	55004743	54986095	54988697
<i>Pag1</i>	phosphoprotein associated with glycosphingolipid microdomains 1 (Pag1), transcript variant B [NM_053182]	2.1	9861135	9862347	9861115	9862364
<i>Pah</i>	phenylalanine hydroxylase (Pah) [NM_008777]	525.8	87050656	87051277	86975737	86976803
<i>Papss1</i>	3'-phosphoadenosine 5'-phosphosulfate synthase 1 (Papss1) [NM_011863]	46.1	131264547	131265482	131275038	131277082
<i>Parp1</i>	poly (ADP-ribose) polymerase family, member 1 (Parp1) [NM_007415]	2.3	182532915	182533856	182489678	182490796
<i>Parp16</i>	poly (ADP-ribose) polymerase family, member 16 (Parp16) [NM_177460]	2.5	65077527	65078382	65055959	65057346
<i>Pax3</i>	paired box gene 3 (Pax3), [NM_008781]	2.2	78230394	78231211	78188737	78190820
<i>Pbx1</i>	pre B cell leukemia homeobox 1	5.7	170284194	170285502	170229335	170230730
<i>Pccb</i>	propionyl Coenzyme A carboxylase, beta polypeptide (Pccb), nuclear gene encoding mitochondrial protein [NM_025835]	169	100868046	100868925	100894207	100896938
<i>Pcmt2</i>	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2 (Pcmt2) [NM_153594]	7.4	181545434	181546821	181554288	181555163
<i>Pdcd5</i>	programmed cell death 5 (Pdcd5) [NM_019746]	2.2	36448760	36449940	36456491	36457533
<i>Pdcl3</i>	phosducin-like 3 (Pdcl3) [NM_026850]	4.3	39021490	39022227	39072256	39073155
<i>Pde11a</i>	phosphodiesterase 11A	2.2	76164292	76164979	76175485	76178330
<i>Pdgfra</i>	platelet derived growth factor receptor, alpha polypeptide (Pdgfra), [NM_011058]	25.4	75623771	75624630	75548357	75553471
<i>Pdhx</i>	pyruvate dehydrogenase complex, component X (Pdhx), nuclear gene encoding mitochondrial protein [NM_175094]	4	102862778	102863499	102891410	102892788
<i>Pdzrn3</i>	PDZ domain containing RING finger 3 (Pdzrn3) [NM_018884]	2.3	101324609	101325326	101310422	101312243
<i>Peg10</i>	paternally expressed 10 (Peg10), [NM_001040611]	2	4703908	4705549	4703703	4705820
<i>Peg3</i>	paternally expressed 3	15.5	6677467	6678649	6669622	6670215
<i>Pga5</i>	pepsinogen 5, group I (Pga5) [NM_021453]	13.3	10733698	10734592	10743178	10751732
<i>Pgr</i>	progesterone receptor (Pgr) [NM_008829]	2.3	8842011	8842786	8899554	8902810
<i>Phactr3</i>	phosphatase and actin regulator 3 (Phactr3),	49.3	177833783	177834478	177852099	177857713

	[NM_028806]					
<i>Phf21b</i>	PHD finger protein 21B (Phf21b), [NM_001081166]	84.6	84666055	84668729	84682658	84688580
<i>Pik3c2g</i>	phosphatidylinositol 3-kinase, C2 domain containing, gamma polypeptide (Pik3c2g), [NM_207683]	18.7	139566825	139567648	139669441	139670803
<i>Pip4k2a</i>	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha (Pip4k2a) [NM_008845]	38.7	18891866	18892415	18884656	18885826
<i>Pitx2</i>	paired-like homeodomain transcription factor 2 (Pitx2), [NM_001042502]	31	128880209	128880726	128901178	128903879
<i>Pknox2</i>	Pbx/knotted 1 homeobox 2 (Pknx2), [NM_001029838]	24.2	36921846	36922522	36951310	36956483
<i>Plcl2</i>	phospholipase C-like 2 (Plcl2) [NM_013880]	10.6	50739579	50740357	50647198	50649781
<i>Plekha2</i>	pleckstrin homology domain-containing, family A (phosphoinositide binding specific) member 2 (Plekha2) [NM_031257]	2.5	26200876	26202097	26195153	26198150
<i>Plekhf1</i>	pleckstrin homology domain containing, family F (with FYVE domain) member 1 (Plekhf1) [NM_024413]	2.5	39031317	39032390	39003471	39005901
<i>Plg</i>	plasminogen (Plg) [NM_008877]	135	12556846	12557685	12575610	12577448
<i>Pmaip1</i>	phorbol-12-myristate-13-acetate-induced protein 1 (Pmaip1) [NM_021451]	3.3	66659490	66660132	66564817	66565842
<i>Pmf1</i>	polyamine-modulated factor 1 (Pmf1) [NM_025928]	3.2	88206045	88207671	88215151	88218284
<i>Pon1</i>	paraoxonase 1 (Pon1) [NM_011134]	1400.9	5110007	5110666	5144250	5146366
<i>Ppa2</i>	pyrophosphatase (inorganic) 2	5.6	132978635	132979414	132984079	132984966
<i>Ppap2a</i>	phosphatidic acid phosphatase type 2A (Ppap2a), [NM_008903]	2.5	113606787	113607669	113625026	113625869
<i>Ppapdc1a</i>	phosphatidic acid phosphatase type 2 domain containing 1A (Ppapdc1a) [NM_001080963]	2.8	136364401	136366122	136398747	136401897
<i>Ppm1a</i>	protein phosphatase 1A, magnesium dependent, alpha isoform (Ppm1a) [NM_008910]	2.3	73908460	73908921	73929946	73934286
<i>Ppm1h</i>	protein phosphatase 1H (PP2C domain containing) (Ppm1h), [NM_176919]	2.7	122161096	122162033	122216165	122217917
<i>Ppp2r5c</i>	protein phosphatase 2, regulatory subunit B (B56), gamma isoform (Ppp2r5c), [NM_012023]	5.5	111717397	111718609	111695847	111697422
<i>Prdm15</i>	PR domain containing 15 (Prdm15) [NM_144789]	3.2	98097628	98098250	98065976	98068422
<i>Prkcq</i>	protein kinase C, theta (Prkcq) [NM_008859]	2.9	11072294	11073133	11093493	11094542
<i>Prox1</i>	prospero homeobox 1	117.1	192069048	192069954	191995614	192000125
<i>Prr18</i>	proline rich region 18 (Prr18), [NM_178774]	2.1	8520175	8521136	8531094	8537167
<i>Prrx2</i>	paired related homeobox 2	3	30707710	30708812	30699093	30704729
<i>Psmc6</i>	proteasome (prosome, macropain) 26S subunit, non-ATPase, 6 (Psmc6) [NM_025550]	2.3	14927659	14928944	14931992	14933650
Pvalb	parvalbumin (Pvalb) [NM_013645]	21	78040416	78041912	78040353	78043272
<i>Rab3ip</i>	RAB3A interacting protein (Rab3ip) [NM_001003950]	6.1	116381938	116382679	116393943	116394870
<i>Rab43</i>	RAB43, member RAS oncogene family (Rab43), [NM_001039394]	5.3	87750310	87751893	87770094	87772468
<i>Rap1b</i>	RAS related protein 1b (Rap1b) [NM_024457]	2.9	117340129	117340914	117258712	117259833
<i>Rasgef1b</i>	RasGEF domain family, member 1B (Rasgef1b), [NM_181318]	11.7	99598648	99599693	99804041	99806482
<i>Rassf4</i>	Ras association (RalGDS/AF-6) domain family member 4	3.1	116633279	116634085	116622954	116625633
<i>Rbfox1</i>	RNA-binding protein, fox-1 homolog (<i>C. elegans</i>) 1 (Rbfox1), [NM_021477]	290.7	6861373	6862263	6348034	6349951
<i>Rbms3</i>	RNA-binding motif, single stranded interacting protein (Rbms3), [NM_178660]	3.8	117586506	117587301	117509630	117510430
<i>Rcan2</i>	regulator of calcineurin 2 (Rcan2), [NM_207649]	3	43986545	43987252	43937577	43939859
<i>Rchy1</i>	ring finger and CHY zinc finger domain-containing 1 (Rchy1) [NM_026557]	5.9	92320392	92320813	92199792	92200803
<i>Rcn3</i>	reticulocalbin 3, EF-hand calcium-binding domain (Rcn3) [NM_026555]	7.5	52350373	52351075	52341212	52344521
<i>Rdh10</i>	retinol dehydrogenase 10 (all-trans) (Rdh10) [NM_133832]	2.7	16136475	16137404	16167444	16168397
<i>Ret</i>	ret proto-oncogene (Ret), [NM_009050]	2.2	118221375	118222141	118149621	118152069
<i>Rhbdl3</i>	rhomboid, veinlet-like 3 (<i>Drosophila</i>) (Rhbdl3) [NM_139228]	2	80091602	80092224	80122723	80126866
<i>Ric8b</i>	resistance to inhibitors of cholinesterase 8 homolog B (<i>C. elegans</i>) (Ric8b), [NM_001013441]	6.3	84400715	84401682	84370425	84373553
<i>Rin2</i>	Ras and Rab interactor 2	2.3	145592917	145593820	145569037	145570481
<i>Rnf157</i>	ring finger protein 157	4.5	116267699	116268494	116272782	116275328
<i>Rnf165</i>	ring finger protein 165 (Rnf165) [NM_001164504]	9.2	77713258	77714189	77801618	77805301
<i>Rnf32</i>	ring finger protein 32 (Rnf32) [NM_021470]	13.9	29485634	29486214	29333554	29334854
<i>Rpap3</i>	RNA polymerase II associated protein 3 (Rpap3) [NM_028003]	2.7	97533439	97534668	97542011	97546544
<i>Rpf1</i>	ribosome production factor 1 homolog (<i>S. cerevisiae</i>) (Rpf1), [NM_027371]	2.3	146193413	146194874	146195607	146196914
<i>Rps6kc1</i>	ribosomal protein S6 kinase polypeptide 1 (Rps6kc1) [NM_178775]	45.9	192689782	192691355	192728036	192729421
<i>Rrm1</i>	ribonucleotide reductase M1 (Rrm1) [NM_009103]	3.5	109553660	109554451	109578998	109580097
<i>Rwdd2a</i>	RWD domain containing 2A (Rwdd2a),	2.3	86476580	86477203	86483967	86485385

	[NM_027100]					
<i>Rxfp2</i>	relaxin/insulin-like family peptide receptor 2 (<i>Rxfp2</i>) [NM_080468]	8.6	150808271	150809049	150831399	150834326
<i>Rxrg</i>	retinoid X receptor gamma (<i>Rxrg</i>), [NM_009107]	4.5	169521522	169522537	169527894	169530569
<i>Sacs</i>	sacsin	22.1	61770961	61772474	61752904	61754399
<i>Sall4</i>	sal-like 4 (<i>Drosophila</i>) (<i>Sall4</i>), transcript variant a [NM_175303]	7.1	168597976	168599032	168593361	168596448
<i>Samd4</i>	sterile alpha motif domain containing 4 (<i>Samd4</i>), [NM_001037221]	80.2	47540750	47542685	47514748	47516911
<i>Scaf4</i>	SR-related CTD-associated factor 4 (<i>Scaf4</i>) [NM_178923]	163.8	90257532	90258555	90303225	90304465
<i>Scrn1</i>	secernin 1 (<i>Scrn1</i>) [NM_027268]	124.3	54480848	54481914	54515265	54517194
<i>Sesn3</i>	sestrin 3 (<i>Sesn3</i>) [NM_030261]	2.9	14036300	14036802	14039138	14040109
<i>Setd2</i>	SET domain containing 2 (<i>Setd2</i>) [NM_001081340]	2.8	110428106	110428910	110421097	110422707
<i>Setd3</i>	SET domain containing 3 (<i>Setd3</i>) [NM_028262]	3.7	109379727	109380645	109379723	109380639
<i>Sfrp2</i>	secreted frizzled-related protein 2 (<i>Sfrp2</i>) [NM_009144]	2.9	83546186	83546894	83565426	83571568
<i>Sgcd</i>	sarcoglycan, delta (dystrophin-associated glycoprotein) (<i>Sgcd</i>) [NM_011891]	4.1	47766766	47767550	47800643	47803327
<i>Shisa2</i>	shisa homolog 2 (<i>Xenopus laevis</i>) (<i>Shisa2</i>) [NM_145463]	5.5	60236160	60237073	60243309	60247471
<i>Shisa9</i>	shisa homolog 9 (<i>Xenopus laevis</i>) (<i>Shisa9</i>), [NM_001174086]	7	12052016	12052846	11982669	11989232
<i>Shq1</i>	SHQ1 homolog (<i>S. cerevisiae</i>) (<i>Shq1</i>) [NM_181590]	3.9	100609868	100610936	100608716	100610547
<i>Siglec5</i>	sialic acid-binding Ig-like lectin 5 (<i>Siglec5</i>) [NM_145581]	3	50621866	50622457	50609751	50611451
<i>Sirt2</i>	sirtuin 2 (silent mating type information regulation 2, homolog) 2 (<i>S. cerevisiae</i>) (<i>Sirt2</i>), [NM_022432]	135.1	29543299	29545476	29540142	29548742
<i>Slc10a7</i>	solute carrier family 10 (sodium/bile acid cotransporter family), member 7 (<i>Slc10a7</i>) [NM_029736]	11.9	81060535	81061305	81096516	81099222
<i>Slc19a3</i>	solute carrier family 19 (sodium/hydrogen exchanger), member 3 (<i>Slc19a3</i>) [NM_030556]	2.8	83056503	83057360	83041309	83042570
<i>Slc22a1</i>	solute carrier family 22 (organic cation transporter), member 1 (<i>Slc22a1</i>) [NM_009202]	2.3	12848036	12849292	12877696	12882929
<i>Slc22a3</i>	solute carrier family 22 (organic cation transporter), member 3 (<i>Slc22a3</i>) [NM_011395]	2.2	12695672	12696448	12699149	12702277
<i>Slc35f1</i>	solute carrier family 35, member F1 (<i>Slc35f1</i>) [NM_178675]	3.9	52471777	52472601	52409777	52411965
<i>Slc36a3</i>	solute carrier family 36 (proton/amino acid symporter), member 3 (<i>Slc36a3</i>) [NM_172258]	2.2	54964093	54965918	54970483	54972033
<i>Slc37a3</i>	solute carrier family 37 (glycerol-3-phosphate transporter), member 3 (<i>Slc37a3</i>) [NM_028123]	5.1	39285267	39286072	39283955	39286146
<i>Slc38a1</i>	solute carrier family 38, member 1 (<i>Slc38a1</i>), [NM_134086]	51.1	96440511	96442054	96470972	96474286
<i>Slc6a12</i>	solute carrier family 6 (neurotransmitter transporter, betaine/GABA), member 12 (<i>Slc6a12</i>) [NM_133661]	32	121310087	121312397	121301439	121304278
<i>Slc9a2</i>	solute carrier family 9 (sodium/hydrogen exchanger), member 2	26.1	40751088	40751884	40737107	40740105
<i>Slco2b1</i>	solute carrier organic anion transporter family, member 2b1 (<i>Slco2b1</i>), [NM_175316]	7.3	106855450	106858249	106852796	106862898
<i>Slco3a1</i>	solute carrier organic anion transporter family, member 3a1 (<i>Slco3a1</i>), [NM_023908]	2.4	81684280	81684984	81651701	81653290
<i>Slit2</i>	slit homolog 2 (<i>Drosophila</i>) (<i>Slit2</i>) [NM_178804]	4	48366533	48367568	48373568	48378181
<i>Slit3</i>	slit homolog 3 (<i>Drosophila</i>) (<i>Slit3</i>) [NM_011412]	3.4	34892566	34893227	34933920	34938027
<i>Smad1</i>	MAD homolog 1 (<i>Drosophila</i>) (<i>Smad1</i>) [NM_008539]	7.2	81987486	81988513	82016385	82018522
<i>Smtnl1</i>	smoothelin-like 1 (<i>Smtnl1</i>) [NM_024230]	15.2	84662732	84663871	84661047	84663518
<i>Smyd3</i>	SET and MYND domain containing 3 (<i>Smyd3</i>) [NM_027188]	2.7	181416681	181417373	181198865	181200135
<i>Sncaip</i>	synuclein, alpha interacting protein (synphilin) (<i>Sncaip</i>), [NM_026408]	2.5	52965891	52966575	53028063	53029154
<i>Snrnp48</i>	small nuclear ribonucleoprotein 48 (U11/U12) (<i>Snrnp48</i>) [NM_026382]	8.5	38311070	38311759	38352282	38354233
<i>Snrpa1</i>	small nuclear ribonucleoprotein polypeptide A' (<i>Snrpa1</i>) [NM_021336]	24.3	73146057	73146648	73177283	73182587
<i>Sord</i>	sorbitol dehydrogenase (<i>Sord</i>) [NM_146126]	3.1	122086937	122088462	122080826	122082442
<i>Sox7</i>	SRY (sex determining region Y)-box 7	2.3	64575692	64577256	64566170	64568324
<i>Spn</i>	sialophorin (<i>Spn</i>), [NM_009259]	176.8	134295696	134296324	134277437	134282166
<i>Srebfb2</i>	sterol regulatory element-binding factor 2	9.7	82000082	82001007	81970314	81972423
<i>Srp9</i>	signal recognition particle 9	7.8	184057482	184058385	184028287	184031102
<i>Srpk2</i>	serine/arginine-rich protein specific kinase 2 (<i>Srpk2</i>) [NM_009274]	3.3	23193594	23194284	23197396	23198313
<i>Srrm4</i>	serine/arginine repetitive matrix 4 (<i>Srrm4</i>) [NM_026886]	3.1	117030794	117032320	117040599	117044462
<i>St3gal5</i>	ST3 beta-galactoside alpha-2,3-sialyltransferase 5 (<i>St3gal5</i>), [NM_011375]	18.3	71999875	72001146	72030457	72031949
<i>St7</i>	suppression of tumorigenicity 7	3.5	17631194	17632402	17631278	17632316

<i>Stbd1</i>	starch-binding domain 1 (Stbd1) [NM_175096]	4.2	93013372	93013966	93013994	93015511
<i>Stc2</i>	stanniocalcin 2 (Stc2) [NM_011491]	73	31313202	31314557	31259329	31261702
<i>Steap3</i>	STEAP family member 3	238	122190287	122191124	122183513	122185343
<i>Stk35</i>	serine/threonine kinase 35 (Stk35), [NM_183262]	4.9	129685713	129686506	129654009	129657780
<i>Stmn2</i>	stathmin-like 2 (Stmn2) [NM_025285]	2.6	8510031	8511800	8509904	8512007
<i>Stmn4</i>	stathmin-like 4 (Stmn4) [NM_019675]	8.3	67032419	67033089	66962049	66964796
<i>Stox2</i>	storkhead box 2 (Stox2), [NM_175162]	11.8	48441583	48442320	48433051	48435200
<i>Stx17</i>	syntaxin 17 (Stx17) [NM_026343]	4.7	48153216	48153788	48114122	48115740
<i>Sub1</i>	SUB1 homolog (<i>S. cerevisiae</i>) (Sub1) [NM_011294]	2	11985035	11985867	11968636	11970295
<i>Sucg1</i>	succinate-CoA ligase, GDP-forming, alpha subunit (Sucg1), nuclear gene encoding mitochondrial protein [NM_019879]	10	73228996	73230031	73221259	73223123
<i>Sulf1</i>	sulfatase 1 (Sulf1), [NM_172294]	2.8	12808021	12808857	12825256	12826913
<i>Sulf2</i>	sulfatase 2 (Sulf2), [NM_028072]	2.2	165917316	165919880	165973962	165978031
<i>Svep1</i>	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1 (Svep1) [NM_022814]	9.4	58206952	58207823	58218052	58220273
<i>Svil</i>	supervillin	4	4944264	4945633	4944345	4945694
<i>Synpo2</i>	synaptopodin 2	138.8	122867058	122867794	122885450	122886646
<i>Syt3</i>	synaptotagmin III (Syt3), [NM_016663]	2.3	51625271	51626234	51605281	51617079
<i>Tac1</i>	tachykinin 1 (Tac1) [NM_009311]	2	7503807	7505601	7503957	7507059
<i>Tbc1d2</i>	TBC1 domain family, member 2 (Tbc1d2) [NM_198664]	126.4	46693161	46694221	46654111	46659735
<i>Tbc1d21</i>	TBC1 domain family, member 21	7.4	58198675	58199823	58226243	58227483
<i>Tbc1d4</i>	TBC1 domain family, member 4 (Tbc1d4) [NM_001081278]	3.3	101971461	101972283	101912381	101913466
<i>Tbx15</i>	T-box 15 (Tbx15) [NM_009323]	2.6	99100098	99101303	99042053	99047264
<i>Tdrd7</i>	tudor domain containing 7 (Tdrd7) [NM_146142]	2.8	45990976	45991755	45976944	45978797
<i>Tlx1</i>	T-cell leukemia, homeobox 1 (Tlx1) [NM_021901]	4.3	45208155	45208799	45214300	45223545
<i>Tmem119</i>	transmembrane protein 119 (Tmem119) [NM_146162]	3.7	114256923	114258622	114262610	114267333
<i>Tmem132b</i>	transmembrane protein 132B (Tmem132b) [NM_001190352]	241.2	126052235	126053318	126267198	126268640
<i>Tmem132c</i>	transmembrane protein 132C (Tmem132c) [NM_175432]	18.4	127665627	127666494	127720669	127725331
<i>Tmem2</i>	transmembrane protein 2 (Tmem2), [NM_031997]	2.2	21881677	21882472	21890257	21891340
<i>Tmod1</i>	tropomodulin 1	2.7	46036680	46037538	46051482	46057425
<i>Tmod2</i>	tropomodulin 2 (Tmod2), [NM_001038710]	3.3	75445942	75446695	75457886	75459846
<i>Tnks</i>	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase	23.6	36106211	36106877	36174080	36175636
<i>Tox3</i>	TOX high mobility group box family member 3 (Tox3) [NM_172913]	100.1	92824093	92824894	92870137	92873228
<i>Traf3</i>	TNF receptor-associated factor 3 (Traf3), [NM_011632]	2.3	112408784	112409386	112397726	112401303
<i>Trak1</i>	trafficking protein, kinesin binding 1	2.2	121198097	121199100	121200754	121205400
<i>Trappc9</i>	trafficking protein particle complex 9	2	72853465	72856144	72881432	72885933
<i>Trdn</i>	triadin (Trdn) [NM_029726]	8.1	32791136	32791832	33059512	33060737
<i>Trem1</i>	triggering receptor expressed on myeloid cells-like 1 (Trem1) [NM_027763]	31.6	48504602	48506848	48504585	48506412
<i>Trerf1</i>	transcriptional regulating factor 1 (Trerf1), [NM_172622]	7	47259860	47261139	47303358	47307707
<i>Trib2</i>	tribbles homolog 2 (<i>Drosophila</i>) (Trib2) [NM_144551]	5.5	15748885	15749533	15821023	15824594
<i>Trim45</i>	tripartite motif-containing 45 (Trim45), [NM_194343]	3.8	100687232	100688046	100731680	100732667
<i>Trim54</i>	tripartite motif-containing 54 (Trim54) [NM_021447]	31.9	31418882	31419870	31418522	31419723
<i>Trim67</i>	tripartite motif-containing 67 (Trim67) [NM_198632]	25.9	127306430	127308157	127315282	127323249
<i>Tro</i>	trophinin (Tro), [NM_019548]	4	147088514	147089026	147090537	147092393
<i>Trp53inp2</i>	transformation related protein 53 inducible nuclear protein 2 (Trp53inp2) [NM_178111]	4.5	155240600	155241406	155201450	155203740
<i>Trpc1</i>	transient receptor potential cation channel, subfamily C, member 1	3.2	95600582	95601311	95649515	95651198
<i>Trpc7</i>	transient receptor potential cation channel, subfamily C, member 7 (Trpc7) [NM_012035]	4.5	56951110	56952192	56906011	56909110
<i>Tshz1</i>	teashirt zinc finger family member 1 (Tshz1) [NM_001081300]	4	84246540	84247476	84220230	84222053
<i>Tshz2</i>	teashirt zinc finger family member 2 (Tshz2) [NM_080455]	9.8	169498981	169499691	169457535	169460201
<i>Tshz3</i>	teashirt zinc finger family member 3 (Tshz3) [NM_172298]	2.2	37492733	37493765	37492700	37493939
<i>Tspan3</i>	tetraspanin 3 (Tspan3) [NM_019793]	10.7	55989486	55990071	56038884	56041411
<i>Tspan8</i>	tetraspanin 8 (Tspan8), [NM_146010]	4.2	115221521	115222082	115216920	115218216
<i>Ttc30a1</i>	tetratricopeptide repeat domain 30A1 (Ttc30a1) [NM_030188]	2.2	75871508	75872120	75834579	75836837
<i>Ttc32</i>	tetratricopeptide repeat domain 32 (Ttc32) [NM_029321]	12.4	9106720	9107553	9056130	9062166
<i>Ttc4</i>	tetratricopeptide repeat domain 4 (Ttc4), [NM_028209]	10	106366049	106368582	106354054	106355526
<i>Ttc7b</i>	tetratricopeptide repeat domain 7B (Ttc7b)	4.1	101736979	101738322	101716041	101721532

	[NM_001033213]					
<i>Ttll7</i>	tubulin tyrosine ligase-like family, member 7 (Ttll7) [NM_027594]	198.2	146531589	146532187	146578616	146580183
<i>Ttn</i>	titin (Ttn), transcript variant N2-A [NM_011652]	4	76744022	76744755	76807198	76808538
<i>Txndc5</i>	thioredoxin domain containing 5 (Txndc5) [NM_145367]	35.5	38641619	38642258	38629125	38630624
<i>Uggt1</i>	UDP-glucose glycoprotein glucosyltransferase 1 (Uggt1) [NM_198899]	3.7	36225320	36226045	36309499	36313520
<i>Uhrf1bp1</i>	UHRF1 (ICBP90) binding protein 1 (Uhrf1bp1) [NM_001080769]	5.8	27987660	27988398	28011158	28014939
<i>Umps</i>	uridine monophosphate synthetase (Umps) [NM_009471]	3.2	33983532	33984301	33997189	33999783
<i>Unc13a</i>	unc-13 homolog A (<i>C. elegans</i>) (Unc13a) [NM_001029873]	2.1	74168143	74169168	74167888	74171172
<i>Unc5cl</i>	unc-5 homolog C (<i>C. elegans</i>)-like (Unc5cl) [NM_152823]	58.7	48651810	48652769	48598587	48600491
<i>Unc79</i>	unc-79 homolog (<i>C. elegans</i>) (Unc79) [NM_001081017]	2.6	104162021	104162789	104186398	104188535
<i>Upb1</i>	ureidopropionase, beta (Upb1) [NM_133995]	28.9	74837900	74838632	74868760	74870452
<i>Use1</i>	unconventional SNARE in the ER 1 homolog (<i>S. cerevisiae</i>) (Use1), [NM_025917]	3.9	73871114	73872627	73877141	73886026
<i>Usp29</i>	ubiquitin-specific peptidase 29	4.5	6880296	6881101	6870470	6872648
<i>Usp30</i>	ubiquitin-specific peptidase 30	2.3	114560601	114563452	114554403	114558599
<i>Usp42</i>	ubiquitin-specific peptidase 42 (Usp42) [NM_029749]	3.9	144444285	144445384	144475226	144479456
<i>Utp14b</i>	UTP14, U3 small nucleolar ribonucleoprotein, homolog B (yeast) (Utp14b), [NM_001001981]	2.1	78712488	78713419	78712558	78713452
<i>Vat1l</i>	vesicle amine transport protein 1 homolog-like (<i>T. californica</i>) (Vat1l) [NM_173016]	24.7	116729100	116731018	116728608	116731255
<i>Vdac3</i>	voltage-dependent anion channel 3 (Vdac3), [NM_011696]	4	23675708	23676755	23678215	23681120
<i>Vldlr</i>	very low density lipoprotein receptor (Vldlr), [NM_013703]	2.8	27215041	27216127	27312294	27313639
<i>Vti1a</i>	vesicle transport through interaction with t-SNAREs 1A	5.8	55408847	55409876	55416100	55417693
<i>Wbscr17</i>	Williams-Beuren syndrome chromosome region 17 homolog (human) (Wbscr17) [NM_145218]	4.7	131871425	131872703	131780787	131784325
<i>Wfdc3</i>	WAP four-disulfide core domain 3 (Wfdc3) [NM_027961]	2.5	164567002	164567866	164558960	164561160
<i>Wisp2</i>	WNT1 inducible signaling pathway protein 2 (Wisp2) [NM_016873]	18.4	163612515	163613513	163647668	163651653
<i>Wnt5a</i>	wingless-related MMTV integration site 5A (Wnt5a), [NM_009524]	4.9	29264113	29264727	29255334	29256884
<i>Xpo7</i>	exportin 7 (Xpo7) [NM_023045]	88	71197033	71198684	71173775	71178601
<i>Xrcc6bp1</i>	XRCC6-binding protein 1 (Xrcc6bp1), [NM_001159559]	4.3	126335254	126336170	126326079	126328066
<i>Zbp1</i>	Z-DNA-binding protein 1 (Zbp1), [NM_021394]	118.6	173041305	173043285	173041109	173045625
<i>Zeb2</i>	zinc finger E-box-binding homeobox 2 (Zeb2), [NM_015753]	204.2	45053779	45054366	44970656	44973294
<i>Zfp2</i>	zinc finger protein 2 (Zfp2), [NM_001044697]	13.6	50723506	50724487	50719465	50720284
<i>Zfp238</i>	zinc finger protein 238 (Zfp238), [NM_013915]	3.6	179392853	179394131	179386281	179387524
<i>Zfp369</i>	zinc finger protein 369 (Zfp369) [NM_178364]	3.5	65411046	65411799	65410953	65412030
<i>Zfp383</i>	zinc finger protein 383 (Zfp383) [NM_001243908]	2.4	30660328	30661118	30648892	30651109
<i>Zfp518b</i>	zinc finger protein 518B (Zfp518b), [NM_001081144]	10.8	39060488	39060964	39064339	39066045
<i>Zfp521</i>	zinc finger protein 521 (Zfp521) [NM_145492]	10.7	14075720	14076433	14127886	14130415
<i>Zfp607</i>	zinc finger protein 607 (Zfp607) [NM_001024726]	4	28661198	28661989	28655938	28657550
<i>Zfp92</i>	zinc finger protein 92 (Zfp92) [NM_009566]	2.6	70666932	70668380	70666768	70668613
<i>Zfr</i>	zinc finger RNA-binding protein (Zfr) [NM_011767]	5.3	12065977	12066576	12004279	12005874
<i>0610011L14Rik</i>	RIKEN cDNA 0610011L14 gene (0610011L14Rik), [NM_026661]	28.5	156383285	156384943	156366470	156369464
<i>0610040J01Rik</i>	RIKEN cDNA 0610040J01 gene (0610040J01Rik) [NM_029554]	508	64159275	64160226	64202895	64204576
<i>1110004F10Rik</i>	RIKEN cDNA 1110004F10 gene (1110004F10Rik) [NM_019772]	172.2	123290936	123292664	123262748	123264502
<i>1110032A03Rik</i>	RIKEN cDNA 1110032A03 gene	6.8	50600617	50601198	50610935	50612362
<i>1110038F14Rik</i>	RIKEN cDNA 1110038F14 gene (1110038F14Rik) [NM_054099]	2.1	76765559	76766318	76762933	76766429
<i>1300010F03Rik</i>	RIKEN cDNA 1300010F03 gene (1300010F03Rik), [NM_173758]	8.9	79324915	79325579	79432547	79433615
<i>1700001L19Rik</i>	RIKEN cDNA 1700001L19 gene (1700001L19Rik) [NM_027035]	99.6	68753198	68753801	68751127	68752127
<i>1700008A04Rik</i>	RIKEN cDNA 1700008A04 gene (1700008A04Rik) [NM_027050]	2.4	32710972	32711814	32732218	32733874
<i>1700011L22Rik</i>	RIKEN cDNA 1700011L22 gene (1700011L22Rik) [NM_026315]	3	81739495	81739976	81711757	81714862
<i>1700056E22Rik</i>	RIKEN cDNA 1700056E22 gene (1700056E22Rik)	3.2	185926501	185926968	186017045	186018960

<i>2310046A06Rik</i>	[NM_028516] RIKEN cDNA 2310046A06 gene (2310046A06Rik) [NM_027150]	137.1	77204923	77205753	77232795	77234161
<i>2410076I21Rik</i>	RIKEN cDNA 2410076I21 gene (2410076I21Rik) [NM_028598]	14.4	58600384	58601025	58600080	58601330
<i>2700060E02Rik</i>	RIKEN cDNA 2700060E02 gene (2700060E02Rik) [NM_026528]	3.2	20709016	20709954	20615795	20617035
<i>4930403N07Rik</i>	RIKEN cDNA 4930403N07 gene (4930403N07Rik) [NM_028687]	2.8	73261933	73262571	73298819	73299961
<i>6720456H20Rik</i>	RIKEN cDNA 6720456H20 gene (6720456H20Rik) [NM_172600]	22.2	49157918	49158600	49047830	49049540
<i>9530059O14Rik</i>	RIKEN cDNA 9530059O14 gene	2.1	122490155	122490785	122477125	122482835
<i>9930013L23Rik</i>	RIKEN cDNA 9930013L23 gene (9930013L23Rik) [NM_030728]	2.5	91247980	91248809	91233194	91237271
<i>A530098C11Rik</i>	RIKEN cDNA A530098C11 gene (A530098C11Rik) [NM_001013799]	13.4	44091624	44092993	44091544	44092592
<i>A730011L01Rik</i>	RIKEN cDNA A730011L01 gene (A730011L01Rik), [NM_177394]	4.5	119340744	119341974	119322649	119324480
<i>A830080D01Rik</i>	RIKEN cDNA A830080D01 gene (A830080D01Rik) [NM_001033472]	2.5	155946220	155946946	155964071	155966209
<i>A930033H14Rik</i>	RIKEN cDNA A930033H14 gene (A930033H14Rik), partial miscRNA [XR_105403]	2.2	68711154	68711952	68698878	68700651

Genes up-regulated in Cbx4KO cells and showing Cbx4 and H3K27me3 binding. Directly overlapping Cbx4 and H3K27me3 ChIP-seq peaks are shown in red.