

**Supplementary Table 4. Up regulated genes in relatives with ACCP+ vs relatives ACCP-**

Gene Symbol	Genbank Accession	Gene Name	Fold Change	Regulation
LOC100288292	XR_132538	putative uncharacterized protein FLJ44672-like	2.789923	up
CAV1	NM_001753	caveolin 1, caveolae protein, 22kDa	3.946695	up
CCDC129		coiled-coil domain containing 129	2.1985881	up
ABTB1	NM_032548	ankyrin repeat and BTB (POZ) domain containing 1	2.2613204	up
WSCD2	NM_014653	WSC domain containing 2	2.075865	up
PPP1R14A	NM_033256	protein phosphatase 1, regulatory (inhibitor) subunit 14A	2.6415465	up
ATP6V0D1	NM_004691	ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d1	2.4900744	up
KCNK15	NM_022358	potassium channel, subfamily K, member 15	2.2245746	up
SP2	NM_003110	Sp2 transcription factor	2.6386456	up
KIAA0319L	NM_024874	KIAA0319-like	2.1558642	up
C19orf59	NM_174918	chromosome 19 open reading frame 59	2.3626502	up
SCARF2	NM_153334	scavenger receptor class F, member 2	2.360706	up
Unknown			2.6564271	up
ACBD4	NM_024722	acyl-CoA binding domain containing 4	2.818159	up
NARF	NM_001038618	nuclear prelamin A recognition factor	2.008297	up
	AK094541		2.4117448	up
PCP4	NM_006198	Purkinje cell protein 4	2.489627	up
CIC	NM_015125	capicua homolog (Drosophila)	2.3857553	up
	AK098147		4.7182083	up
IL1R2	NM_004633	interleukin 1 receptor, type II	2.1484475	up
KRTAP10-8	NM_198695	keratin associated protein 10-8	2.4531016	up
TARP	NM_001003799	TCR gamma alternate reading frame protein	2.415881	up
TUBA3D	NM_080386	tubulin, alpha 3d	2.273618	up
LOC283547	NR_039982	uncharacterized LOC283547	2.015791	up
RNASET2	AK001769	ribonuclease T2	4.057167	up
ZNF24	NM_006965	zinc finger protein 24	3.4035223	up
LOC389834	NR_027420	ankyrin repeat domain 57 pseudogene	2.7860982	up
LOC100132247	NM_001135865	nuclear pore complex interacting protein related gene	2.1316926	up
PARP12	NM_022750	poly (ADP-ribose) polymerase family, member 12	2.4150546	up
SH3BP4	NM_014521	SH3-domain binding protein 4	2.079753	up
DDX3Y	NM_001122665	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	2.0400486	up
SIK1	NM_173354	salt-inducible kinase 1	2.1804388	up
CSN1S1	NM_001890	casein alpha s1	2.5260406	up
ACSL1	NM_001995	acyl-CoA synthetase long-chain family member 1	2.0690696	up
MCOLN3	NM_018298	mucolipin 3	3.3666747	up
LOC100129931	NR_033828	uncharacterized LOC100129931	10.931081	up
Unknown			2.0839288	up
ND3	AY423734	NADH dehydrogenase, subunit 3 (complex I)	2.6191425	up
LCE1A	NM_178348	late cornified envelope 1A	2.3914135	up
APOBEC3C	NM_014508	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3C	2.0509124	up

LOC400662	AK055411	uncharacterized LOC400662	3.3198295 up
ARAP1	NM_001040118	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1	2.3279066 up
TNXB	NM_019105	tenascin XB	2.3959095 up
SPOCK2	NM_001134434	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2	2.3886817 up
TIPRL	NM_152902	TIP41, TOR signaling pathway regulator-like ( <i>S. cerevisiae</i> )	2.6131291 up
ZFP36L1	AK097098	zinc finger protein 36, C3H type-like 1	2.0590303 up
CPSF3L	NM_017871	cleavage and polyadenylation specific factor 3-like	3.3125765 up
ACSS2	NM_018677	acyl-CoA synthetase short-chain family member 2	2.2859967 up
SLC12A9	NM_020246	solute carrier family 12 (potassium/chloride transporters), member 9	2.2835226 up
PLEKHG5	NM_198681	pleckstrin homology domain containing, family G (with RhoGef domain) member 5	2.0799766 up
ARHGEF16	NM_014448	Rho guanine nucleotide exchange factor (GEF) 16	2.4696991 up
TLE4	NM_007005	transducin-like enhancer of split 4 (E(sp1) homolog, <i>Drosophila</i> )	2.0882056 up
HPS1	NM_000195	Hermansky-Pudlak syndrome 1	2.6783736 up
ACTN4	NM_004924	actinin, alpha 4	2.3923786 up
MORN1		MORN repeat containing 1	2.925553 up
ACAP3	NM_030649	ArfGAP with coiled-coil, ankyrin repeat and PH domains 3	2.5301104 up
Unknown			2.5941215 up
COL27A1	NM_032888	collagen, type XXVII, alpha 1	2.9623253 up
CYP4F30P	NR_023391	cytochrome P450, family 4, subfamily F, polypeptide 30, pseudogene	4.3726916 up
LOC647086	XR_132608	chromosome 20 open reading frame 27 pseudogene	2.084827 up
Unknown			2.1183016 up
STAT3	NM_213662	signal transducer and activator of transcription 3 (acute-phase response factor)	2.6298807 up
KRTAP10-12	NM_198699	keratin associated protein 10-12	3.3742194 up
AHSG	NM_001622	alpha-2-HS-glycoprotein	2.4957964 up
ACAP1	NM_014716	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1	2.449008 up
PORCN	NM_203473	porcupine homolog ( <i>Drosophila</i> )	3.0370867 up
	DR731407		4.1535273 up
USP5	NM_003481	ubiquitin specific peptidase 5 (isopeptidase T)	2.2778535 up
RLTPR	NM_001013838	RGD motif, leucine rich repeats, tropomodulin domain and proline-rich containing	2.5468485 up
H3F3B	NM_005324	H3 histone, family 3B (H3.3B)	2.164711 up
LOC729305	XR_132809	uncharacterized LOC729305	4.0573115 up
FOXB1	NM_012182	forkhead box B1	2.3309827 up
GDI1	NM_001493	GDP dissociation inhibitor 1	2.2780993 up
DPYSL4	NM_006426	dihydropyrimidinase-like 4	2.5227687 up
Unknown			4.7101107 up
MAP1LC3A	NM_032514	microtubule-associated protein 1 light chain 3 alpha	3.7433934 up
RAB1B	NM_030981	RAB1B, member RAS oncogene family	2.3512714 up
	AK097701		2.2802246 up
LOC143188	NR_015409	uncharacterized LOC143188	2.7468412 up
USP21	NM_001014443	ubiquitin specific peptidase 21	2.651004 up
HMGA2	NM_003484	high mobility group AT-hook 2	3.1459346 up
ST7	NM_018412	suppression of tumorigenicity 7	2.0580974 up

GPR15	NM_005290	G protein-coupled receptor 15	2.6640446 up
GABARAP	NM_007278	GABA(A) receptor-associated protein	2.1371005 up
CHKB	NM_005198	choline kinase beta	2.2299933 up
CD3E	NM_000733	CD3e molecule, epsilon (CD3-TCR complex)	2.1550918 up
NSUN4	NM_199044	NOP2/Sun domain family, member 4	2.6492007 up
LOC100652762	XM_003403544	uncharacterized LOC100652762	2.0573764 up
FAM65A	NM_024519	family with sequence similarity 65, member A	3.2714615 up
BPIFB2	NM_025227	BPI fold containing family B, member 2	4.1397 up
INPPL1	NM_001567	inositol polyphosphate phosphatase-like 1	2.0888195 up
SIRT2	NM_012237	sirtuin 2	2.4678743 up
Unknown			2.8905916 up
KRTAP5-11		keratin associated protein 5-11	2.0622194 up
LINC00494	NR_026958	long intergenic non-protein coding RNA 494	3.0265074 up
LOC401357	XR_132811	uncharacterized LOC401357	2.5916228 up
MON1B	NM_014940	MON1 homolog B (yeast)	2.590523 up
	AY010113		2.2281902 up
CYC1	NM_001916	cytochrome c-1	2.0117774 up
NPPA		natriuretic peptide A	2.9338233 up
EIF1AY	NM_004681	eukaryotic translation initiation factor 1A, Y-linked	5.6645055 up
	BE266556		2.068938 up
TMEM151B	NM_001137560	transmembrane protein 151B	2.4972787 up
LINC00106	BQ009527	long intergenic non-protein coding RNA 106	2.212271 up
AKT1	NM_005163	v-akt murine thymoma viral oncogene homolog 1	2.404629 up
SMAP2	NM_022733	small ArfGAP2	2.2495065 up
REREP3	NR_033735	arginine-glutamic acid dipeptide (RE) repeats pseudogene 3	3.242693 up
Unknown			2.3068695 up
CT47A11	NM_173571	cancer/testis antigen family 47, member A11	2.8958516 up
Unknown			2.2935717 up
EPHX3	NM_024794	epoxide hydrolase 3	2.7596948 up
C1orf198	NM_032800	chromosome 1 open reading frame 198	2.0539234 up
	XM_003118719		2.7333615 up
ACHE	NM_000665	acetylcholinesterase	2.6459744 up
Unknown			2.1197147 up
NASP	NM_002482	nuclear autoantigenic sperm protein (histone-binding)	3.7578866 up
NIP7	NM_016101	nuclear import 7 homolog (S. cerevisiae)	3.1747224 up
COX1	AK074742	cytochrome c oxidase subunit I	2.3615606 up
LOC100131150	AK096194	uncharacterized LOC100131150	2.1258461 up
AUP1	NM_181575	ancient ubiquitous protein 1	2.105954 up
TMEM219	NM_194280	transmembrane protein 219	2.1054459 up
MESTIT1	NR_004382	MEST intronic transcript 1, antisense RNA (non-protein coding)	2.8080826 up
MOV10L1	NM_018995	Mov10l1, Moloney leukemia virus 10-like 1, homolog (mouse)	2.9715996 up
LOC100130238	NR_024563	uncharacterized LOC100130238	2.1249104 up

LOC645261	AF258587	PP565	3.8613176 up
FAM100A	NM_145253	family with sequence similarity 100, member A	2.6317227 up
ZNF205	NM_003456	zinc finger protein 205	3.350588 up
OR5V1	NM_030876	olfactory receptor, family 5, subfamily V, member 1	2.0663216 up
WNT10A	NM_025216	wingless-type MMTV integration site family, member 10A	2.2642982 up
HNRNPUL1	NM_007040	heterogeneous nuclear ribonucleoprotein U-like 1	2.525899 up
	DA197111		2.4724066 up
GUK1	NM_001242840	guanylate kinase 1	2.5769215 up
ZNF266	NM_006631	zinc finger protein 266	2.2760646 up
NKAIN2	NM_001040214	Na <sup>+</sup> /K <sup>+</sup> transporting ATPase interacting 2	2.0606914 up
HMG20B	NM_006339	high mobility group 20B	2.4731197 up
HSP90B1	NM_003299	heat shock protein 90kDa beta (Grp94), member 1	2.1757808 up
TRAM2	NM_012288	translocation associated membrane protein 2	3.66912 up
P4HTM	NM_177938	prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum)	2.2450502 up
TMPRSS9	NM_182973	transmembrane protease, serine 9	3.1652484 up
RHBDL1	NM_003961	rhomoid, veinlet-like 1 (Drosophila)	2.7976906 up
FRMD1	NM_024919	FERM domain containing 1	3.5627968 up
Unknown			2.4173417 up
MRPL45	NM_032351	mitochondrial ribosomal protein L45	2.4917097 up
IFITM3	NM_021034	interferon induced transmembrane protein 3	2.0669284 up
LALBA	NM_002289	lactalbumin, alpha-	7.8349533 up
OAS1	NM_002534	2'-5'-oligoadenylate synthetase 1, 40/46kDa	2.666262 up
CLPTM1	NM_001294	cleft lip and palate associated transmembrane protein 1	2.178986 up
FLJ14186	NR_037596	uncharacterized LOC401149	2.880895 up
KRTAP5-4	NM_001012709	keratin associated protein 5-4	2.263062 up
ARHGAP40	NM_001164431	Rho GTPase activating protein 40	2.3690147 up
CAMK2G	NM_172171	calcium/calmodulin-dependent protein kinase II gamma	2.0102026 up
FAM108A1	NM_001130111	family with sequence similarity 108, member A1	2.0615745 up
NSUN5	NM_148956	NOP2/Sun domain family, member 5	2.051235 up
C18orf12	XR_109479	chromosome 18 open reading frame 12	2.4328592 up
CMTM7	NM_138410	CKLF-like MARVEL transmembrane domain containing 7	3.5308428 up
	AK126423		2.4049344 up
	BC166633		2.3559139 up
KCTD19	NM_001100915	potassium channel tetramerisation domain containing 19	3.0291438 up
FAM73B	NM_032809	family with sequence similarity 73, member B	2.0745895 up
ATG4B	NM_013325	ATG4 autophagy related 4 homolog B (S. cerevisiae)	3.0301833 up
RBAK-LOC389458	NM_001204513	RBAK-LOC389458 readthrough	2.9922888 up
CMA1	NM_001836	chymase 1, mast cell	2.499754 up
OSCAR	NM_206818	osteoclast associated, immunoglobulin-like receptor	2.6062565 up
	BF515046		2.459267 up
ZFP41	NM_173832	zinc finger protein 41 homolog (mouse)	5.1692195 up
TMEM189	NM_199129	transmembrane protein 189	2.7031746 up

AMN	NM_030943	amniotless homolog (mouse)	2.6318595 up
Unknown			2.2459526 up
STX5	NM_003164	syntaxin 5	2.0274286 up
PRDX5	NM_012094	peroxiredoxin 5	2.0816474 up
C19orf29	NM_021231	chromosome 19 open reading frame 29	2.722241 up
CRLF1	NM_004750	cytokine receptor-like factor 1	2.3008592 up
ARHGEF10	BC040474	Rho guanine nucleotide exchange factor (GEF) 10	2.261707 up
ENTPD6	NM_001247	ectonucleoside triphosphate diphosphohydrolase 6 (putative)	2.2502723 up
POLR2J4	NR_003655	polymerase (RNA) II (DNA directed) polypeptide J4, pseudogene	2.494902 up
MLLT11	NM_006818	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); transl	2.338549 up
TCOF1	NM_001008657	Treacher Collins-Franceschetti syndrome 1	3.5125248 up
SPATA2L	NM_152339	spermatogenesis associated 2-like	2.2859683 up
SCGB3A2	NM_054023	secretoglobin, family 3A, member 2	3.76579 up
C8orf58	NM_001013842	chromosome 8 open reading frame 58	2.2809741 up
VMO1	NM_182566	vitelline membrane outer layer 1 homolog (chicken)	2.418349 up
HIST1H2BN	NM_003520	histone cluster 1, H2bn	2.3483684 up
EFNA1	NM_004428	ephrin-A1	3.2253997 up
SLC34A1	NM_003052	solute carrier family 34 (sodium phosphate), member 1	2.3626764 up
CORO1A	NM_007074	coronin, actin binding protein, 1A	2.4794939 up
DHRS13	NM_144683	dehydrogenase/reductase (SDR family) member 13	2.491425 up
RPP25	NM_017793	ribonuclease P/MRP 25kDa subunit	2.4927213 up
IL32	NM_001012631	interleukin 32	2.104205 up
GPR97	NM_170776	G protein-coupled receptor 97	2.0263214 up
KCP	NM_001135914	kielin/chordin-like protein	2.9855702 up
Unknown			2.128056 up
GNG8	NM_033258	guanine nucleotide binding protein (G protein), gamma 8	2.0878649 up
CDX1	NM_001804	caudal type homeobox 1	4.2568593 up
OR10H2	NM_013939	olfactory receptor, family 10, subfamily H, member 2	2.1559143 up
PQLC3	NM_152391	PQ loop repeat containing 3	3.0017273 up
BLOC1S1	NM_001487	biogenesis of lysosomal organelles complex-1, subunit 1	2.6000597 up
S100A11	NM_005620	S100 calcium binding protein A11	2.9087212 up
LOC646743	NR_033930	uncharacterized LOC646743	4.124948 up
PNPLA2	NM_020376	patatin-like phospholipase domain containing 2	2.6759987 up
FMO5	NM_001461	flavin containing monooxygenase 5	2.0558357 up
Unknown			3.1459734 up
LOC339807	NR_034023	uncharacterized LOC339807	2.0697885 up
LSS	NM_002340	lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)	2.2321827 up
Unknown			2.0370793 up
ZNF703	NM_025069	zinc finger protein 703	2.1090167 up
APBB3	NM_006051	amyloid beta (A4) precursor protein-binding, family B, member 3	2.0174665 up
ERGIC3	NM_015966	ERGIC and golgi 3	2.0251486 up
CD37	NM_001774	CD37 molecule	2.4798875 up

DUSP8	NM_004420	dual specificity phosphatase 8	2.4004533 up
ALDH3B1	NM_001161473	aldehyde dehydrogenase 3 family, member B1	2.4100623 up
TMUB2	NM_177441	transmembrane and ubiquitin-like domain containing 2	2.2567334 up
Unknown			3.281102 up
F13A1	NM_000129	coagulation factor XIII, A1 polypeptide	2.5725837 up
AGPAT3	NM_020132	1-acylglycerol-3-phosphate O-acyltransferase 3	2.2452831 up
TTY15	NR_001545	testis-specific transcript, Y-linked 15 (non-protein coding)	2.273323 up
ASNA1	NM_004317	arsA arsenite transporter, ATP-binding, homolog 1 (bacterial)	2.1891809 up
COL6A2	NM_058174	collagen, type VI, alpha 2	2.97253 up
TMCO6	NM_018502	transmembrane and coiled-coil domains 6	2.09654 up
AK1	NM_000476	adenylate kinase 1	2.3696666 up
TMEM40	NM_018306	transmembrane protein 40	2.4684763 up
MAEA	NM_001017405	macrophage erythroblast attacher	2.2102544 up
CERS3	NM_178842	ceramide synthase 3	2.8725007 up
HTRA2	NM_145074	HtrA serine peptidase 2	2.392647 up
FBXL17	NM_001163315	F-box and leucine-rich repeat protein 17	3.862536 up
GPX1	NM_201397	glutathione peroxidase 1	2.6742394 up
POLR2C	NM_032940	polymerase (RNA) II (DNA directed) polypeptide C, 33kDa	2.3571212 up
C16orf7	NM_004913	chromosome 16 open reading frame 7	2.50614 up
FTL	NM_000146	ferritin, light polypeptide	2.1800663 up
OR11A1	NM_013937	olfactory receptor, family 11, subfamily A, member 1	3.688992 up
ASB16	NM_080863	ankyrin repeat and SOCS box containing 16	2.987806 up
ATP6V0B	NM_004047	ATPase, H+ transporting, lysosomal 21kDa, V0 subunit b	2.1722252 up
FLJ34208	NR_033929	uncharacterized LOC401106	3.5345564 up
SH3GL1	NM_003025	SH3-domain GRB2-like 1	2.5025542 up
FBXL6	NM_012162	F-box and leucine-rich repeat protein 6	2.7470727 up
TNIP1	NM_006058	TNFAIP3 interacting protein 1	2.1397786 up
FTL	NM_000146	ferritin, light polypeptide	2.0166714 up
ZNF282	NM_003575	zinc finger protein 282	3.1631253 up
TMEM146	NM_152784	transmembrane protein 146	2.2819207 up
BCKDK	NM_005881	branched chain ketoacid dehydrogenase kinase	2.3312452 up
KIFC2	NM_145754	kinesin family member C2	2.4249732 up
GNB1	NM_002074	guanine nucleotide binding protein (G protein), beta polypeptide 1	2.0907006 up
ITGAL	NM_002209	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; a	2.0606594 up
MICU1	NM_006077	mitochondrial calcium uptake 1	2.126319 up
FCER1G	NM_004106	Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide	2.0405056 up
SHISA4	NM_198149	shisa homolog 4 (Xenopus laevis)	2.6683297 up
SLC26A11	NM_001166347	solute carrier family 26, member 11	3.1420128 up
LOC390660	XR_109177	FLJ00317 protein	2.6243894 up
LYL1	NM_005583	lymphoblastic leukemia derived sequence 1	2.8418229 up
			2.385252 up
CDCA4	NM_017955	cell division cycle associated 4	2.8596375 up

C2CD4C	NM_001136263	C2 calcium-dependent domain containing 4C	3.567688 up
AP2B1	NM_001030006	adaptor-related protein complex 2, beta 1 subunit	2.070988 up
ARMC6	NM_033415	armadillo repeat containing 6	2.8686852 up
EVX1	NM_001989	even-skipped homeobox 1	2.6414528 up
	BC033227		2.5524182 up
PARVG	NM_022141	parvin, gamma	2.0445724 up
SLC14A1	NM_001146037	solute carrier family 14 (urea transporter), member 1 (Kidd blood group)	2.0789602 up
DVL2	NM_004422	dishevelled, dsh homolog 2 (Drosophila)	2.0782108 up
GAS7	NM_201433	growth arrest-specific 7	2.1753223 up
CISD3	NM_001136498	CDGSH iron sulfur domain 3	2.2889295 up
ZMYND8	NM_183047	zinc finger, MYND-type containing 8	2.519038 up
LRRC33	NM_198565	leucine rich repeat containing 33	2.1911287 up
CSF1	NM_172212	colony stimulating factor 1 (macrophage)	2.5548365 up
RHBDD2	NM_001040457	rhomoid domain containing 2	2.2276585 up
DUSP4	NM_001394	dual specificity phosphatase 4	3.9018173 up
NXF1	NM_006362	nuclear RNA export factor 1	2.2717564 up
NPB	NM_148896	neuropeptide B	2.888444 up
Unknown			2.6223218 up
AGBL3	NM_178563	ATP/GTP binding protein-like 3	2.486592 up
ALG1	NM_019109	asparagine-linked glycosylation 1, beta-1,4-mannosyltransferase homolog (S. cerevisiae)	2.02872 up
SSH1	NM_001161331	slingshot homolog 1 (Drosophila)	2.13739 up
LTK	NM_002344	leukocyte receptor tyrosine kinase	2.1800156 up
SH3GLB2	NM_020145	SH3-domain GRB2-like endophilin B2	2.5247235 up
ALKBH5	NM_017758	alkB, alkylation repair homolog 5 (E. coli)	2.9174528 up
SYTL1	NM_032872	synaptotagmin-like 1	2.5048254 up
NOA1	NM_032313	nitric oxide associated 1	2.5846655 up
SREBF1	NM_001005291	sterol regulatory element binding transcription factor 1	2.2380853 up
Unknown			2.786228 up
DOT1L	AB058717	DOT1-like, histone H3 methyltransferase (S. cerevisiae)	3.5372963 up
MYH14	NM_001077186	myosin, heavy chain 14, non-muscle	2.6250458 up
NOTO	NM_001134462	notochord homeobox	3.2267942 up
VWA1	NM_022834	von Willebrand factor A domain containing 1	2.404687 up
Unknown			2.374378 up
KLHDC7B	NM_138433	kelch domain containing 7B	2.8690758 up
FAM108A1	NM_031213	family with sequence similarity 108, member A1	2.2581694 up
PCSK1N	NM_013271	proprotein convertase subtilisin/kexin type 1 inhibitor	3.5376828 up
C20orf123	NM_080721	chromosome 20 open reading frame 123	2.2385967 up
CYTB	HV444967	cytochrome b	3.181024 up
Unknown			2.3991928 up
HTT	NM_002111	huntingtin	2.2714274 up
PRB3	NM_006249	proline-rich protein BstNI subfamily 3	4.755131 up
C9orf173	NM_001004353	chromosome 9 open reading frame 173	2.6211097 up

RTDR1		rhabdoid tumor deletion region gene 1	2.0407968 up
AFAP1	NM_001134647	actin filament associated protein 1	2.3948164 up
LOC221814	AL122087	uncharacterized LOC221814	3.0290005 up
DUSP15	NM_080611	dual specificity phosphatase 15	2.0299642 up
PDLIM2	NM_198042	PDZ and LIM domain 2 (mystique)	2.1478093 up
RAE1	NM_001015885	RAE1 RNA export 1 homolog (S. pombe)	3.5306275 up
RAVER1	NM_133452	ribonucleoprotein, PTB-binding 1	2.488028 up
MYO1G	NM_033054	myosin IG	2.3639238 up
BAG6	NM_004639	BCL2-associated athanogene 6	2.1358933 up
LRG1	NM_052972	leucine-rich alpha-2-glycoprotein 1	2.6347952 up
TLE1	NM_005077	transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila)	4.284191 up
SPAG1	NM_003114	sperm associated antigen 1	2.3289213 up
RNF40	NM_014771	ring finger protein 40	2.1602867 up
	XR_132817		2.1748853 up
DHCR24	NM_014762	24-dehydrocholesterol reductase	2.3491774 up
FLJ14186	NR_037596	uncharacterized LOC401149	2.4611003 up
LOC100131094	NM_001242901	uncharacterized LOC100131094	2.031078 up
PSMC4	NM_006503	proteasome (prosome, macropain) 26S subunit, ATPase, 4	2.2124834 up
KRT73	NM_175068	keratin 73	2.2522876 up
PPP5C	NM_006247	protein phosphatase 5, catalytic subunit	2.1869056 up
ENTPD7	NM_020354	ectonucleoside triphosphate diphosphohydrolase 7	2.025124 up
Unknown			2.2636058 up
IDH3G	NM_004135	isocitrate dehydrogenase 3 (NAD+) gamma	2.0241475 up
LINC00265	NR_026999	long intergenic non-protein coding RNA 265	2.215186 up
TMEM8A	NM_021259	transmembrane protein 8A	2.0625715 up
GPR132	NM_013345	G protein-coupled receptor 132	5.3407106 up
TPP1	NM_000391	tripeptidyl peptidase I	3.2587173 up
KRT85	NM_002283	keratin 85	4.8867793 up
SMCR2	AI821758	Smith-Magenis syndrome chromosome region, candidate 2 (non-protein coding)	2.1187375 up
SNED1	NM_001080437	sushi, nidogen and EGF-like domains 1	2.4987593 up
ETV3L	NM_001004341	ets variant 3-like	2.391817 up
CREB3L1	NM_052854	cAMP responsive element binding protein 3-like 1	3.4514906 up
POLD4	NM_021173	polymerase (DNA-directed), delta 4	2.0392158 up
ITGB2	L78790	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)	2.0947294 up
PPP1R14B	NM_138689	protein phosphatase 1, regulatory (inhibitor) subunit 14B	2.1118708 up
TAAR2	NM_001033080	trace amine associated receptor 2	2.1933281 up
TNFRSF4	NM_003327	tumor necrosis factor receptor superfamily, member 4	2.6528015 up
DPM2	NM_003863	dolichyl-phosphate mannosyltransferase polypeptide 2, regulatory subunit	2.3329062 up
CST3	NM_000099	cystatin C	3.2337716 up
NDUFB7	NM_004146	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18kDa	3.8067162 up
RASGRP4	NM_170604	RAS guanyl releasing protein 4	2.0746405 up
MTMR14	AK128312	myotubularin related protein 14	2.923553 up



MOCS3	NM_014484	molybdenum cofactor synthesis 3	3.040179 up
FLJ25694	AK127969	uncharacterized protein FLJ25694	2.9436 up
UNC93B1	NM_030930	unc-93 homolog B1 (C. elegans)	2.018595 up
ZNF641	NM_152320	zinc finger protein 641	2.0046716 up
JUNB	NM_002229	jun B proto-oncogene	3.4909914 up
OR2H1	NM_030883	olfactory receptor, family 2, subfamily H, member 1	2.346983 up
FLJ36000	NR_027084	uncharacterized FLJ36000	2.0665047 up
RPRD1B	NM_021215	regulation of nuclear pre-mRNA domain containing 1B	2.3433013 up
RPP30	NM_006413	ribonuclease P/MRP 30kDa subunit	2.0619528 up
HERC6	NM_017912	hect domain and RLD 6	3.3713746 up
ZNF771	NM_016643	zinc finger protein 771	2.0332878 up
SLC25A39	NM_016016	solute carrier family 25, member 39	2.6531897 up
PACS1	NM_018026	phosphofurin acidic cluster sorting protein 1	2.386689 up
LOC157740	AJ291676	uncharacterized protein C8orf9	2.9273436 up
OR5AP2	NM_001002925	olfactory receptor, family 5, subfamily AP, member 2	4.2860036 up
SRPR	NM_003139	signal recognition particle receptor (docking protein)	2.3204548 up
TEX261	NM_144582	testis expressed 261	2.8641853 up
SSR2	NM_003145	signal sequence receptor, beta (translocon-associated protein beta)	2.021808 up
FLJ45445	NR_028324	uncharacterized LOC399844	2.2271838 up
SLC22A23	NM_021945	solute carrier family 22, member 23	2.4369624 up
TAPBP	NM_003190	TAP binding protein (tapasin)	2.0152535 up
SPAG8	NM_001039592	sperm associated antigen 8	2.289541 up
B4GALT5	NM_004776	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5	2.082269 up
REPIN1	NM_014374	replication initiator 1	2.045336 up
MLL4	NM_014727	myeloid/lymphoid or mixed-lineage leukemia 4	2.1333902 up
	AK093659		2.1559415 up
CST7	NM_003650	cystatin F (leukocystatin)	2.5456247 up
FKBP1A	NM_000801	FK506 binding protein 1A, 12kDa	2.498522 up
CDA	NM_001785	cytidine deaminase	3.051612 up
CHD1L	NM_004284	chromodomain helicase DNA binding protein 1-like	2.700532 up
CPLX2		complexin 2	2.4863415 up
CUX1	NM_001913	cut-like homeobox 1	2.3591845 up
SLC22A31	NM_001242757	solute carrier family 22, member 31	2.099208 up
C10orf27	NM_152710	chromosome 10 open reading frame 27	5.202161 up
FLJ14186	NR_037596	uncharacterized LOC401149	3.195986 up
POLR2J	NM_006234	polymerase (RNA) II (DNA directed) polypeptide J, 13.3kDa	2.1569586 up
C19orf56	NM_016145	chromosome 19 open reading frame 56	2.082174 up
FTSJD2	NM_015050	FtsJ methyltransferase domain containing 2	2.420377 up
FLJ45445	NR_028324	uncharacterized LOC399844	2.1531484 up
STAG3L2	NR_040584	stromal antigen 3-like 2	2.5088859 up
LOC100132593	AK098270	uncharacterized LOC100132593	2.0571446 up
			2.6352627 up

JKAMP	NM_016475	JNK1/MAPK8-associated membrane protein	2.2222292 up
	XM_001719321		3.041666 up
TAGLN	NM_001001522	transgelin	3.3945303 up
KIF3B	NM_004798	kinesin family member 3B	2.1783493 up
OTOA	BC040551	otoancorin	2.5205932 up
UBE2G2	NM_182688	ubiquitin-conjugating enzyme E2G 2	2.1712408 up
AIF1	NM_004847	allograft inflammatory factor 1	2.4536178 up
EIF4G1	NM_182917	eukaryotic translation initiation factor 4 gamma, 1	2.2555962 up
GLIS1	NM_147193	GLIS family zinc finger 1	2.0432203 up
HPS1	NM_182639	Hermansky-Pudlak syndrome 1	2.915498 up
PQBP1	NM_001167989	polyglutamine binding protein 1	4.7224183 up
S100P	NM_005980	S100 calcium binding protein P	3.8260586 up
	D13077		2.2005086 up
TMC8	NM_152468	transmembrane channel-like 8	2.0550494 up
	CR737729		2.1551185 up
GAPDH	NM_002046	glyceraldehyde-3-phosphate dehydrogenase	2.036496 up
	AK021933		4.567646 up
PRPS1	NM_002764	phosphoribosyl pyrophosphate synthetase 1	3.0220182 up
LOC284926	CR624447	uncharacterized LOC284926	2.06371 up
ATP1A3	NM_152296	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, alpha 3 polypeptide	2.8927448 up
SPNS1	NM_032038	spinster homolog 1 (Drosophila)	2.1965334 up
ACADVL	NM_000018	acyl-CoA dehydrogenase, very long chain	2.009936 up
WLS	NM_024911	wntless homolog (Drosophila)	2.294251 up
LOC100132249	XR_132823	uncharacterized LOC100132249	2.4884002 up
FLOT2	NM_004475	flotillin 2	2.794187 up
UBL7	NM_032907	ubiquitin-like 7 (bone marrow stromal cell-derived)	2.6817155 up
SIRT3	AK074992	sirtuin 3	2.433562 up
Unknown			2.1971831 up
AHSA2	BC050395	AHA1, activator of heat shock 90kDa protein ATPase homolog 2 (yeast)	4.2361674 up
LRRC16B	NM_138360	leucine rich repeat containing 16B	2.6115358 up
C19orf66	NM_018381	chromosome 19 open reading frame 66	2.6281729 up
HIF3A	AB118749	hypoxia inducible factor 3, alpha subunit	2.4027464 up
			3.4199228 up
DENND2A	NM_015689	DENN/MADD domain containing 2A	2.766787 up
FLJ45445	NR_028324	uncharacterized LOC399844	2.2747633 up
ACADS	NM_000017	acyl-CoA dehydrogenase, C-2 to C-3 short chain	2.0657194 up
DNAJC27-AS1	NR_034113	DNAJC27 antisense RNA 1 (non-protein coding)	2.3628697 up
Unknown			2.5952158 up
CEP104	BC050721	centrosomal protein 104kDa	6.9731812 up
DCTN3	NM_007234	dynactin 3 (p22)	2.1977496 up
C2orf63		chromosome 2 open reading frame 63	2.1694813 up
LOC727721	DB238770	uncharacterized LOC727721	3.2233636 up

CHST13	NM_152889	carbohydrate (chondroitin 4) sulfotransferase 13	2.4717147 up
TTC39A	NM_001080494	tetratricopeptide repeat domain 39A	2.0910904 up
CDC34	NM_004359	cell division cycle 34 homolog (S. cerevisiae)	2.3891041 up
SSBP3	NM_001009955	single stranded DNA binding protein 3	2.6869538 up
C4orf40	NM_214711	chromosome 4 open reading frame 40	3.4621024 up
CABP5	NM_019855	calcium binding protein 5	2.693108 up
	BX398892		2.6134462 up
LOC100288293	XR_132539	putative uncharacterized protein FLJ44672-like	2.608739215 up
CAV2	NM_001753	caveolin 1, caveolae protein, 22kDa	2.608559004 up
CCDC130		coiled-coil domain containing 130	2.608378792 up
ABTB2	NM_032548	ankyrin repeat and BTB (POZ) domain containing 2	2.608198581 up
WSCD3	NM_014653	WSC domain containing 3	2.608018369 up
PPP1R14A	NM_033256	protein phosphatase 1, regulatory (inhibitor) subunit 14A	2.607838158 up
ATP6V0D2	NM_004691	ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d2	2.607657946 up
KCNK16	NM_022358	potassium channel, subfamily K, member 16	2.607477735 up
SP3	NM_003110	Sp2 transcription factor	2.607297523 up
KIAA0319L	NM_024874	KIAA0319-like	2.607117312 up
C19orf60	NM_174918	chromosome 19 open reading frame 60	2.606937101 up
SCARF3	NM_153334	scavenger receptor class F, member 3	2.606756889 up
Unknown			2.606576678 up
ACBD5	NM_024722	acyl-CoA binding domain containing 5	2.606396466 up
NARF	NM_001038618	nuclear prelamin A recognition factor	2.606216255 up
	AK094542		2.606036043 up
PCP5	NM_024052	Purkinje cell protein 5	2.605855832 up
CIC	NM_032979	capicua homolog (Drosophila)	2.605675621 up
	AK098148		2.605495409 up
IL1R3	NM_004633	interleukin 1 receptor, type II	2.605315198 up
KRTAP10-9	NM_198695	keratin associated protein 10-9	2.605134986 up
TARP	NM_001003799	TCR gamma alternate reading frame protein	2.604954775 up
TUBA3D	NM_080386	tubulin, alpha 3d	2.604774563 up
LOC283548	NR_039983	uncharacterized LOC283548	2.604594352 up
RNASET3	AK001770	ribonuclease T3	2.60441414 up
ZNF25	NM_006966	zinc finger protein 25	2.604233929 up
LOC199874660	NR_027421	ankyrin repeat domain 57 pseudogene	2.604053718 up
LOC299617073	NM_001135865	nuclear pore complex interacting protein related gene	2.603873506 up
PARP13	NM_022750	poly (ADP-ribose) polymerase family, member 13	2.603693295 up
SH3BP5	NM_014521	SH3-domain binding protein 5	2.603513083 up
DDX3Y	NM_001122665	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, Y-linked	2.603332872 up
SIK2	NM_173354	salt-inducible kinase 2	2.60315266 up
CSN1S2	NM_001890	casein alpha s2	2.602972449 up
ACSL2	NM_001995	acyl-CoA synthetase long-chain family member 2	2.602792238 up
MCOLN4	NM_018298	mucolipin 4	2.602612026 up

LOC100129932	NR_033829	uncharacterized LOC100129932	2.602431815 up
			2.602251603 up
ND4	AY423735	NADH dehydrogenase, subunit 3 (complex I)	2.602071392 up
LCE1A	NM_149332	late cornified envelope 1A	2.60189118 up
APOBEC3C	NM_313172	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3C	2.601710969 up
LOC400663	AK055412	uncharacterized LOC400663	2.601530757 up
ARAP2	NM_001040118	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2	2.601350546 up
TNXB	NM_019105	tenascin XB	2.601170335 up
SPOCK3	NM_001134434	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 3	2.600990123 up
TIPRL	NM_152902	TIP41, TOR signaling pathway regulator-like ( <i>S. cerevisiae</i> )	2.600809912 up
ZFP36L2	AK097099	zinc finger protein 36, C3H type-like 2	2.6006297 up
CPSF3L	NM_017871	cleavage and polyadenylation specific factor 3-like	2.600449489 up
ACSS3	NM_018677	acyl-CoA synthetase short-chain family member 3	2.600269277 up
SLC12A10	NM_020246	solute carrier family 12 (potassium/chloride transporters), member 10	2.600089066 up
PLEKHG6	NM_198681	pleckstrin homology domain containing, family G (with RhoGef domain) member 6	2.599908855 up
ARHGEF17	NM_014448	Rho guanine nucleotide exchange factor (GEF) 17	2.599728643 up
TLE5	NM_007005	transducin-like enhancer of split 4 (E(sp1) homolog, <i>Drosophila</i> )	2.599548432 up
HPS2	NM_000195	Hermansky-Pudlak syndrome 2	2.59936822 up
ACTN5	NM_004924	actinin, alpha 5	2.599188009 up
MORN2		MORN repeat containing 2	2.599007797 up
ACAP4	NM_030649	ArfGAP with coiled-coil, ankyrin repeat and PH domains 4	2.598827586 up
Unknown			2.598647374 up
COL27A2	NM_032888	collagen, type XXVII, alpha 2	2.598467163 up
CYP4F30P	NR_023392	cytochrome P450, family 4, subfamily F, polypeptide 30, pseudogene	2.598286952 up
LOC647087	XR_132609	chromosome 20 open reading frame 27 pseudogene	2.59810674 up
Unknown			2.597926529 up
STAT4	NM_213662	signal transducer and activator of transcription 3 (acute-phase response factor)	2.597746317 up
KRTAP10-13	NM_198699	keratin associated protein 10-13	2.597566106 up
AHSG	NM_001622	alpha-2-HS-glycoprotein	2.597385894 up
ACAP2	NM_014716	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2	2.597205683 up
PORCN	NM_203473	porcupine homolog ( <i>Drosophila</i> )	2.597025472 up
	DR731408		2.59684526 up
USP6	NM_003481	ubiquitin specific peptidase 5 (isopeptidase T)	2.596665049 up
RLTPR	NM_001013838	RGD motif, leucine rich repeats, tropomodulin domain and proline-rich containing	2.596484837 up
H3F3B	NM_005324	H3 histone, family 3B (H3.3B)	2.596304626 up
LOC729306	XR_132810	uncharacterized LOC729306	2.596124414 up
FOXB2	NM_012182	forkhead box B2	2.595944203 up
GDI2	NM_001493	GDP dissociation inhibitor 2	2.595763991 up
DPYSL5	NM_006426	dihydropyrimidinase-like 5	2.59558378 up
			2.595403569 up
MAP1LC3A	NM_032514	microtubule-associated protein 1 light chain 3 alpha	2.595223357 up
RAB1B	NM_030981	RAB1B, member RAS oncogene family	2.595043146 up

	AK097702		2.594862934 up
LOC143189	NR_015410	uncharacterized LOC143189	2.594682723 up
USP22	NM_001014443	ubiquitin specific peptidase 22	2.594502511 up
HMGA3	NM_003484	high mobility group AT-hook 3	2.5943223 up
ST8	NM_018412	suppression of tumorigenicity 8	2.594142089 up
GPR16	NM_005290	G protein-coupled receptor 16	2.593961877 up
GABARAP	NM_007278	GABA(A) receptor-associated protein	2.593781666 up
CHKB	NM_005198	choline kinase beta	2.593601454 up
CD3E	NM_000733	CD3e molecule, epsilon (CD3-TCR complex)	2.593421243 up
NSUN5	NM_199044	NOP2/Sun domain family, member 5	2.593241031 up
LOC100652763	XM_003403545	uncharacterized LOC100652763	2.59306082 up
FAM65A	NM_024519	family with sequence similarity 65, member A	2.592880608 up
BPIFB3	NM_025227	BPI fold containing family B, member 3	2.592700397 up
INPPL2	NM_001567	inositol polyphosphate phosphatase-like 2	2.592520186 up
SIRT3	NM_012237	sirtuin 3	2.592339974 up
Unknown			2.592159763 up
KRTAP5-12		keratin associated protein 5-12	2.591979551 up
LINC00495	NR_026959	long intergenic non-protein coding RNA 495	2.59179934 up
LOC401358	XR_132812	uncharacterized LOC401358	2.591619128 up
MON1B	NM_014941	MON1 homolog B (yeast)	2.591438917 up
	AY010114		2.591258705 up
CYC2	NM_007446	cytochrome c-2	2.591078494 up
NPPA		natriuretic peptide A	2.590898283 up
EIF1AY	NM_010211	eukaryotic translation initiation factor 1A, Y-linked	2.590718071 up
	BE266557		2.59053786 up
TMEM151B	NM_001137561	transmembrane protein 151B	2.590357648 up
LINC00107	BQ009528	long intergenic non-protein coding RNA 107	2.590177437 up
AKT2	NM_040303	v-akt murine thymoma viral oncogene homolog 2	2.589997225 up
SMAP3	NM_057873	small ArfGAP3	2.589817014 up
REREP4	NR_033736	arginine-glutamic acid dipeptide (RE) repeats pseudogene 4	2.589636803 up
Unknown			2.589456591 up
CT47A12	NM_173571	cancer/testis antigen family 47, member A12	2.58927638 up
Unknown			2.589096168 up
EPHX4	NM_024794	epoxide hydrolase 4	2.588915957 up
C1orf199	NM_032800	chromosome 1 open reading frame 199	2.588735745 up
	XM_003118720		2.588555534 up
ACHE	NM_000665	acetylcholinesterase	2.588375322 up
Unknown			2.588195111 up
NASP	NM_002482	nuclear autoantigenic sperm protein (histone-binding)	2.5880149 up
NIP8	NM_016101	nuclear import 7 homolog (S. cerevisiae)	2.587834688 up
COX2	AK117646	cytochrome c oxidase subunit I	2.587654477 up
LOC100131151	AK139098	uncharacterized LOC100131151	2.587474265 up

AUP2	NM_206985	ancient ubiquitous protein 2	2.587294054 up
TMEM220	NM_219690	transmembrane protein 220	2.587113842 up
MESTIT2	NR_004383	MEST intronic transcript 1, antisense RNA (non-protein coding)	2.586933631 up
MOV10L2	NM_018996	Mov10l1, Moloney leukemia virus 10-like 1, homolog (mouse)	2.58675342 up
LOC98839716	NR_024564	uncharacterized LOC100130239	2.586573208 up
LOC198324693	AF258588	PP566	2.586392997 up
FAM100A	NM_145253	family with sequence similarity 100, member A	2.586212785 up
ZNF206	NM_003456	zinc finger protein 206	2.586032574 up
OR5V2	NM_030876	olfactory receptor, family 5, subfamily V, member 2	2.585852362 up
WNT10A	NM_025216	wingless-type MMTV integration site family, member 10A	2.585672151 up
HNRNPUL2	NM_007040	heterogeneous nuclear ribonucleoprotein U-like 2	2.585491939 up
	DA197112		2.585311728 up
GUK2	NM_001242840	guanylate kinase 2	2.585131517 up
ZNF267	NM_006631	zinc finger protein 267	2.584951305 up
NKAIN3	NM_001040214	Na <sup>+</sup> /K <sup>+</sup> transporting ATPase interacting 3	2.584771094 up
HMG20B	NM_006339	high mobility group 20B	2.584590882 up
HSP90B2	NM_003299	heat shock protein 90kDa beta (Grp94), member 2	2.584410671 up
TRAM3	NM_012288	translocation associated membrane protein 3	2.584230459 up
P4HTM	NM_177938	prolyl 4-hydroxylase, transmembrane (endoplasmic reticulum)	2.584050248 up
TMPRSS10	NM_182973	transmembrane protease, serine 10	2.583870037 up
RHBDL2	NM_003961	rhomboid, veinlet-like 1 (Drosophila)	2.583689825 up
FRMD2	NM_024919	FERM domain containing 2	2.583509614 up
Unknown			2.583329402 up
MRPL46	NM_032351	mitochondrial ribosomal protein L46	2.583149191 up
IFITM4	NM_021034	interferon induced transmembrane protein 4	2.582968979 up
LALBA	NM_002289	lactalbumin, alpha-	2.582788768 up
OAS2	NM_002534	2'-5'-oligoadenylate synthetase 1, 40/46kDa	2.582608556 up
CLPTM2	NM_001294	cleft lip and palate associated transmembrane protein 2	2.582428345 up
FLJ14187	NR_037597	uncharacterized LOC401150	2.582248134 up
KRTAP5-5	NM_001012709	keratin associated protein 5-5	2.582067922 up
ARHGAP41	NM_001164431	Rho GTPase activating protein 41	2.581887711 up
CAMK2G	NM_172171	calcium/calmodulin-dependent protein kinase II gamma	2.581707499 up
FAM108A2	NM_001130111	family with sequence similarity 108, member A2	2.581527288 up
NSUN6	NM_148956	NOP2/Sun domain family, member 6	2.581347076 up
C18orf13	XR_109480	chromosome 18 open reading frame 13	2.581166865 up
CMTM8	NM_138411	CKLF-like MARVEL transmembrane domain containing 8	2.580986654 up
	AK126424		2.580806442 up
	BC166634		2.580626231 up
KCTD20	NM_001100915	potassium channel tetramerisation domain containing 20	2.580446019 up
FAM73B	NM_032809	family with sequence similarity 73, member B	2.580265808 up
ATG4B	NM_013325	ATG4 autophagy related 4 homolog B (S. cerevisiae)	2.580085596 up
RBAK-LOC389459	NM_001204513	RBAK-LOC389458 readthrough	2.579905385 up

CMA2	NM_001836	chymase 1, mast cell	2.579725173 up
OSCAR	NM_206818	osteoclast associated, immunoglobulin-like receptor	2.579544962 up
	BF515047		2.579364751 up
ZFP42	NM_173832	zinc finger protein 41 homolog (mouse)	2.579184539 up
TMEM190	NM_199129	transmembrane protein 190	2.579004328 up
AMN	NM_030943	amionless homolog (mouse)	2.578824116 up
Unknown			2.578643905 up
STX6	NM_003164	syntaxin 6	2.578463693 up
PRDX6	NM_012094	peroxiredoxin 6	2.578283482 up
C19orf30	NM_021231	chromosome 19 open reading frame 30	2.578103271 up
CRLF2	NM_004750	cytokine receptor-like factor 2	2.577923059 up
ARHGEF11	BC040475	Rho guanine nucleotide exchange factor (GEF) 11	2.577742848 up
ENTPD7	NM_001248	ectonucleoside triphosphate diphosphohydrolase 6 (putative)	2.577562636 up
POLR2J5	NR_003656	polymerase (RNA) II (DNA directed) polypeptide J4, pseudogene	2.577382425 up
MLLT12	NM_006818	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); trans	2.577202213 up
TCOF2	NM_001008657	Treacher Collins-Franceschetti syndrome 2	2.577022002 up
SPATA2L	NM_152339	spermatogenesis associated 2-like	2.57684179 up
SCGB3A3	NM_054023	secretoglobin, family 3A, member 3	2.576661579 up
C8orf59	NM_001013842	chromosome 8 open reading frame 59	2.576481368 up
VMO2	NM_182566	vitelline membrane outer layer 1 homolog (chicken)	2.576301156 up
HIST1H2BN	NM_003520	histone cluster 1, H2bn	2.576120945 up
EFNA2	NM_004428	ephrin-A2	2.575940733 up
SLC34A2	NM_003052	solute carrier family 34 (sodium phosphate), member 2	2.575760522 up
CORO1A	NM_007074	coronin, actin binding protein, 1A	2.57558031 up
DHRS14	NM_144683	dehydrogenase/reductase (SDR family) member 14	2.575400099 up
RPP26	NM_017793	ribonuclease P/MRP 25kDa subunit	2.575219888 up
IL33	NM_001012631	interleukin 33	2.575039676 up
GPR98	NM_170776	G protein-coupled receptor 98	2.574859465 up
KCP	NM_001135914	kielin/chordin-like protein	2.574679253 up
Unknown			2.574499042 up
GNG9	NM_033258	guanine nucleotide binding protein (G protein), gamma 9	2.57431883 up
CDX2	NM_001804	caudal type homeobox 2	2.574138619 up
OR10H3	NM_013939	olfactory receptor, family 10, subfamily H, member 3	2.573958407 up
PQLC4	NM_152391	PQ loop repeat containing 4	2.573778196 up
BLOC1S2	NM_001487	biogenesis of lysosomal organelles complex-1, subunit 2	2.573597985 up
S100A12	NM_005620	S100 calcium binding protein A12	2.573417773 up
LOC646744	NR_033931	uncharacterized LOC646744	2.573237562 up
PNPLA3	NM_017454	patatin-like phospholipase domain containing 3	2.57305735 up
FMO6	NM_036369	flavin containing monooxygenase 6	2.572877139 up
Unknown			2.572696927 up
LOC339808	NR_034024	uncharacterized LOC339808	2.572516716 up
LSS	NM_002340	lanosterol synthase (2,3-oxidosqualene-lanosterol cyclase)	2.572336505 up

			2.572156293 up
ZNF704	NM_025069	zinc finger protein 704	2.571976082 up
APBB4	NM_006051	amyloid beta (A4) precursor protein-binding, family B, member 4	2.57179587 up
ERGIC4	NM_015966	ERGIC and golgi 4	2.571615659 up
CD38	NM_001774	CD37 molecule	2.571435447 up
DUSP9	NM_004420	dual specificity phosphatase 9	2.571255236 up
ALDH3B2	NM_001161473	aldehyde dehydrogenase 3 family, member B2	2.571075024 up
TMUB3	NM_177441	transmembrane and ubiquitin-like domain containing 3	2.570894813 up
Unknown			2.570714602 up
F13A2	NM_000129	coagulation factor XIII, A1 polypeptide	2.57053439 up
AGPAT4	NM_020132	1-acylglycerol-3-phosphate O-acyltransferase 4	2.570354179 up
TTY16	NR_001546	testis-specific transcript, Y-linked 15 (non-protein coding)	2.570173967 up
ASNA2	NM_004317	arsA arsenite transporter, ATP-binding, homolog 1 (bacterial)	2.569993756 up
COL6A3	NM_058174	collagen, type VI, alpha 3	2.569813544 up
TMCO7	NM_018502	transmembrane and coiled-coil domains 7	2.569633333 up
AK2	NM_000476	adenylate kinase 2	2.569453121 up
TMEM41	NM_018306	transmembrane protein 41	2.56927291 up
MAEA	NM_001017405	macrophage erythroblast attacher	2.569092699 up
CERS4	NM_178842	ceramide synthase 4	2.568912487 up
HTRA3	NM_145074	HtrA serine peptidase 3	2.568732276 up
FBXL18	NM_001163315	F-box and leucine-rich repeat protein 18	2.568552064 up
GPX2	NM_201397	glutathione peroxidase 2	2.568371853 up
POLR2C	NM_032940	polymerase (RNA) II (DNA directed) polypeptide C, 33kDa	2.568191641 up
C16orf8	NM_004913	chromosome 16 open reading frame 8	2.56801143 up
FTL	NM_000146	ferritin, light polypeptide	2.567831219 up
OR11A2	NM_013937	olfactory receptor, family 11, subfamily A, member 2	2.567651007 up
ASB17	NM_080863	ankyrin repeat and SOCS box containing 17	2.567470796 up
ATP6V0B	NM_004047	ATPase, H+ transporting, lysosomal 21kDa, V0 subunit b	2.567290584 up
FLJ34209	NR_033930	uncharacterized LOC401107	2.567110373 up
SH3GL2	NM_003025	SH3-domain GRB2-like 2	2.566930161 up
FBXL7	NM_012162	F-box and leucine-rich repeat protein 7	2.56674995 up
TNIP2	NM_006058	TNFAIP3 interacting protein 2	2.566569738 up
FTL	NM_000146	ferritin, light polypeptide	2.566389527 up
ZNF283	NM_003575	zinc finger protein 283	2.566209316 up
TMEM147	NM_152784	transmembrane protein 147	2.566029104 up
BCKDK	NM_005881	branched chain ketoacid dehydrogenase kinase	2.565848893 up
KIFC3	NM_145754	kinesin family member C3	2.565668681 up
GNB2	NM_002074	guanine nucleotide binding protein (G protein), beta polypeptide 2	2.56548847 up
ITGAL	NM_002209	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; a	2.565308258 up
MICU2	NM_006077	mitochondrial calcium uptake 2	2.565128047 up
FCER1G	NM_004106	Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide	2.564947836 up
SHISA5	NM_198149	shisa homolog 4 (Xenopus laevis)	2.564767624 up



SLC26A12	NM_001166347	solute carrier family 26, member 12	2.564587413 up
LOC390661	XR_109178	FLJ00317 protein	2.564407201 up
LYL2	NM_005583	lymphoblastic leukemia derived sequence 2	2.56422699 up
Unknown			2.564046778 up
CDCA5	NM_017955	cell division cycle associated 5	2.563866567 up
C2CD4C	NM_001136263	C2 calcium-dependent domain containing 4C	2.563686355 up
AP2B2	NM_001030006	adaptor-related protein complex 2, beta 1 subunit	2.563506144 up
ARMC7	NM_033415	armadillo repeat containing 7	2.563325933 up
EVX2	NM_001989	even-skipped homeobox 2	2.563145721 up
	BC033228		2.56296551 up
PARVG	NM_022141	parvin, gamma	2.562785298 up
SLC14A2	NM_001146037	solute carrier family 14 (urea transporter), member 1 (Kidd blood group)	2.562605087 up
DVL3	NM_004422	dishevelled, dsh homolog 2 (Drosophila)	2.562424875 up
GAS8	NM_201433	growth arrest-specific 8	2.562244664 up
CISD4	NM_001136498	CDGSH iron sulfur domain 4	2.562064453 up
ZMYND9	NM_183047	zinc finger, MYND-type containing 9	2.561884241 up
LRRC34	NM_198565	leucine rich repeat containing 34	2.56170403 up
CSF2	NM_172212	colony stimulating factor 1 (macrophage)	2.561523818 up
RHBDD3	NM_001040457	rhomboid domain containing 3	2.561343607 up
DUSP5	NM_001394	dual specificity phosphatase 5	2.561163395 up
NXF2	NM_006362	nuclear RNA export factor 2	2.560983184 up
NPB	NM_148896	neuropeptide B	2.560802972 up
Unknown			2.560622761 up
AGBL4	NM_178563	ATP/GTP binding protein-like 4	2.56044255 up
ALG2	NM_019109	asparagine-linked glycosylation 1, beta-1,4-mannosyltransferase homolog (S. cerevisiae)	2.560262338 up
SSH2	NM_001161331	slingshot homolog 1 (Drosophila)	2.560082127 up
LTK	NM_002344	leukocyte receptor tyrosine kinase	2.559901915 up
SH3GLB3	NM_020145	SH3-domain GRB2-like endophilin B3	2.559721704 up
ALKBH6	NM_017758	alkB, alkylation repair homolog 5 (E. coli)	2.559541492 up
SYTL2	NM_032872	synaptotagmin-like 2	2.559361281 up
NOA2	NM_032313	nitric oxide associated 2	2.55918107 up
SREBF2	NM_001005291	sterol regulatory element binding transcription factor 2	2.559000858 up
Unknown			2.558820647 up
DOT1L	AB058718	DOT1-like, histone H3 methyltransferase (S. cerevisiae)	2.558640435 up
MYH15	NM_001077186	myosin, heavy chain 14, non-muscle	2.558460224 up
NOTO	NM_001134462	notochord homeobox	2.558280012 up
VWA2	NM_022834	von Willebrand factor A domain containing 2	2.558099801 up
Unknown			2.557919589 up
KLHDC7B	NM_138433	kelch domain containing 7B	2.557739378 up
FAM108A2	NM_031213	family with sequence similarity 108, member A2	2.557559167 up
PCSK1N	NM_013271	proprotein convertase subtilisin/kexin type 1 inhibitor	2.557378955 up
C20orf124	NM_080721	chromosome 20 open reading frame 124	2.557198744 up

CYTB	HV444968	cytochrome b	2.557018532 up
Unknown			2.556838321 up
HTT	NM_002111	huntingtin	2.556658109 up
PRB4	NM_006249	proline-rich protein BstNI subfamily 4	2.556477898 up
C9orf174	NM_001004353	chromosome 9 open reading frame 174	2.556297687 up
RTDR2		rhabdoid tumor deletion region gene 2	2.556117475 up
AFAP2	NM_001134647	actin filament associated protein 2	2.555937264 up
LOC221815	AL122088	uncharacterized LOC221815	2.555757052 up
DUSP16	NM_080611	dual specificity phosphatase 16	2.555576841 up
PDLIM3	NM_198042	PDZ and LIM domain 2 (mystique)	2.555396629 up
RAE2	NM_001015885	RAE1 RNA export 1 homolog ( <i>S. pombe</i> )	2.555216418 up
RAVER2	NM_133452	ribonucleoprotein, PTB-binding 2	2.555036206 up
MYO1G	NM_033054	myosin IG	2.554855995 up
BAG7	NM_004639	BCL2-associated athanogene 7	2.554675784 up
LRG2	NM_052972	leucine-rich alpha-2-glycoprotein 2	2.554495572 up
TLE2	NM_005077	transducin-like enhancer of split 1 ( <i>E(sp1)</i> homolog, <i>Drosophila</i> )	2.554315361 up
SPAG2	NM_003114	sperm associated antigen 2	2.554135149 up
RNF41	NM_014771	ring finger protein 41	2.553954938 up
	XR_132818		2.553774726 up
DHCR25	NM_014763	24-dehydrocholesterol reductase	2.553594515 up
FLJ14187	NR_037597	uncharacterized LOC199861039	2.553414304 up
LOC100131095	NM_001242901	uncharacterized LOC299590984	2.553234092 up
PSMC5	NM_006503	proteasome (prosome, macropain) 26S subunit, ATPase, 5	2.553053881 up
KRT74	NM_175068	keratin 74	2.552873669 up
PPP5C	NM_006247	protein phosphatase 5, catalytic subunit	2.552693458 up
ENTPD8	NM_020354	ectonucleoside triphosphate diphosphohydrolase 8	2.552513246 up
Unknown			2.552333035 up
IDH3G	NM_004135	isocitrate dehydrogenase 3 (NAD+) gamma	2.552152823 up
LINC00266	NR_027000	long intergenic non-protein coding RNA 266	2.551972612 up
TMEM8A	NM_021259	transmembrane protein 8A	2.551792401 up
GPR133	NM_013345	G protein-coupled receptor 133	2.551612189 up
TPP2	NM_000391	tripeptidyl peptidase I	2.551431978 up
KRT86	NM_002283	keratin 86	2.551251766 up
SMCR3	AI821759	Smith-Magenis syndrome chromosome region, candidate 2 (non-protein coding)	2.551071555 up
SNED2	NM_001080437	sushi, nidogen and EGF-like domains 2	2.550891343 up
ETV3L	NM_001004341	ets variant 3-like	2.550711132 up
CREB3L2	NM_052854	cAMP responsive element binding protein 3-like 2	2.55053092 up
POLD5	NM_021173	polymerase (DNA-directed), delta 5	2.550350709 up
ITGB3	L78791	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)	2.550170498 up
PPP1R14B	NM_138689	protein phosphatase 1, regulatory (inhibitor) subunit 14B	2.549990286 up
TAAR3	NM_001033080	trace amine associated receptor 3	2.549810075 up
TNFRSF5	NM_003327	tumor necrosis factor receptor superfamily, member 5	2.549629863 up

DPM3	NM_003863	dolichyl-phosphate mannosyltransferase polypeptide 2, regulatory subunit	2.549449652 up
CST4	NM_000099	cystatin C	2.54926944 up
NDUFB8	NM_004146	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 7, 18kDa	2.549089229 up
RASGRP5	NM_170604	RAS guanyl releasing protein 5	2.548909018 up
MTMR15	AK128313	myotubularin related protein 15	2.548728806 up
MOCS4	NM_014485	molybdenum cofactor synthesis 4	2.548548595 up
FLJ25695	AK127970	uncharacterized protein FLJ25695	2.548368383 up
UNC93B2	NM_030930	unc-93 homolog B1 (C. elegans)	2.548188172 up
ZNF642	NM_152320	zinc finger protein 642	2.54800796 up
JUNB	NM_002229	jun B proto-oncogene	2.547827749 up
OR2H2	NM_030883	olfactory receptor, family 2, subfamily H, member 2	2.547647537 up
FLJ36001	NR_027085	uncharacterized FLJ36001	2.547467326 up
RPRD1B	NM_021215	regulation of nuclear pre-mRNA domain containing 1B	2.547287115 up
RPP31	NM_006413	ribonuclease P/MRP 30kDa subunit	2.547106903 up
HERC7	NM_017912	hect domain and RLD 7	2.546926692 up
ZNF772	NM_016643	zinc finger protein 772	2.54674648 up
SLC25A40	NM_016016	solute carrier family 25, member 40	2.546566269 up
PACS2	NM_018026	phosphofurin acidic cluster sorting protein 2	2.546386057 up
LOC157741	AJ291677	uncharacterized protein C8orf10	2.546205846 up
OR5AP3	NM_001002925	olfactory receptor, family 5, subfamily AP, member 3	2.546025635 up
SRPR	NM_003139	signal recognition particle receptor (docking protein)	2.545845423 up
TEX262	NM_144582	testis expressed 262	2.545665212 up
SSR3	NM_003145	signal sequence receptor, beta (translocon-associated protein beta)	2.545485 up
FLJ45446	NR_028325	uncharacterized LOC399845	2.545304789 up
SLC22A24	NM_021945	solute carrier family 22, member 24	2.545124577 up
TAPBP	NM_003190	TAP binding protein (tapasin)	2.544944366 up
SPAG9	NM_001039592	sperm associated antigen 9	2.544764154 up
B4GALT6	NM_004776	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6	2.544583943 up
REPIN2	NM_014374	replication initiator 2	2.544403732 up
MLL5	NM_014727	myeloid/lymphoid or mixed-lineage leukemia 5	2.54422352 up
	AK093660		2.544043309 up
CST8	NM_003650	cystatin F (leukocystatin)	2.543863097 up
FKBP1A	NM_000801	FK506 binding protein 1A, 12kDa	2.543682886 up
CDA	NM_001785	cytidine deaminase	2.543502674 up
CHD1L	NM_004284	chromodomain helicase DNA binding protein 1-like	2.543322463 up
CPLX3		complexin 3	2.543142252 up
CUX2	NM_001913	cut-like homeobox 2	2.54296204 up
SLC22A32	NM_001242757	solute carrier family 22, member 32	2.542781829 up
C10orf28	NM_152710	chromosome 10 open reading frame 28	2.542601617 up
FLJ14187	NR_037597	uncharacterized LOC401150	2.542421406 up
POLR2J	NM_006234	polymerase (RNA) II (DNA directed) polypeptide J, 13.3kDa	2.542241194 up
C19orf57	NM_016145	chromosome 19 open reading frame 57	2.542060983 up

FTSJD3	NM_015050	FtsJ methyltransferase domain containing 3	2.541880771 up
FLJ45446	NR_052844	uncharacterized LOC399845	2.54170056 up
STAG3L3	NR_065104	stromal antigen 3-like 3	2.541520349 up
LOC100132594	AK098271	uncharacterized LOC100132594	2.541340137 up
Unknown			2.541159926 up
JKAMP	NM_016476	JNK1/MAPK8-associated membrane protein	2.540979714 up
	XM_001719322		2.540799503 up
TAGLN	NM_000991926	transgelin	2.540619291 up
KIF3B	NM_001988650	kinesin family member 3B	2.54043908 up
OTOA	BC040552	otoancorin	2.540258869 up
UBE2G3	NM_182688	ubiquitin-conjugating enzyme E2G 3	2.540078657 up
AIF2	NM_004847	allograft inflammatory factor 2	2.539898446 up
EIF4G2	NM_182917	eukaryotic translation initiation factor 4 gamma, 2	2.539718234 up
GLIS2	NM_147193	GLIS family zinc finger 2	2.539538023 up
HPS2	NM_182639	Hermansky-Pudlak syndrome 2	2.539357811 up
PQBP2	NM_001167989	polyglutamine binding protein 2	2.5391776 up
S100P	NM_005980	S100 calcium binding protein P	2.538997388 up
	D13078		2.538817177 up
TMCC9	NM_152469	transmembrane channel-like 9	2.538636966 up
	CR737730		2.538456754 up
GAPDH	NM_002047	glyceraldehyde-3-phosphate dehydrogenase	2.538276543 up
	AK021934		2.538096331 up
PRPS2	NM_002765	phosphoribosyl pyrophosphate synthetase 2	2.53791612 up
LOC284927	CR624448	uncharacterized LOC284927	2.537735908 up
ATP1A4	NM_152296	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, alpha 3 polypeptide	2.537555697 up
SPNS2	NM_032038	spinster homolog 1 (Drosophila)	2.537375486 up
ACADVL	NM_000018	acyl-CoA dehydrogenase, very long chain	2.537195274 up
WLS	NM_024911	wntless homolog (Drosophila)	2.537015063 up
LOC100132250	XR_132824	uncharacterized LOC100132250	2.536834851 up
FLOT3	NM_061339	flotillin 3	2.53665464 up
UBL8	NM_089771	ubiquitin-like 7 (bone marrow stromal cell-derived)	2.536474428 up
SIRT4	AK074993	sirtuin 4	2.536294217 up
Unknown			2.536114005 up
AHSA3	BC050396	AHA1, activator of heat shock 90kDa protein ATPase homolog 2 (yeast)	2.535933794 up
LRRC16B	NM_101598	leucine rich repeat containing 16B	2.535753583 up
C19orf67	NM_221577	chromosome 19 open reading frame 67	2.535573371 up
HIF3A	AB118750	hypoxia inducible factor 3, alpha subunit	2.53539316 up
Unknown			2.535212948 up
DENN2A	NM_015690	DENN/MADD domain containing 2A	2.535032737 up
FLJ45446	NR_028325	uncharacterized LOC399845	2.534852525 up
ACADS	NM_000018	acyl-CoA dehydrogenase, C-2 to C-3 short chain	2.534672314 up
DNAJC27-AS2	NR_034114	DNAJC27 antisense RNA 1 (non-protein coding)	2.534492103 up

			2.534311891 up
CEP105	BC050722	centrosomal protein 104kDa	2.53413168 up
DCTN4	NM_007235	dynactin 3 (p22)	2.533951468 up
C2orf64		chromosome 2 open reading frame 64	2.533771257 up
LOC7272722	DB238771	uncharacterized LOC7272722	2.533591045 up
CHST14	NM_152889	carbohydrate (chondroitin 4) sulfotransferase 14	2.533410834 up
TTC39A	NM_001080494	tetratricopeptide repeat domain 39A	2.533230622 up
CDC35	NM_004359	cell division cycle 34 homolog (S. cerevisiae)	2.533050411 up
SSBP4	NM_001009955	single stranded DNA binding protein 4	2.5328702 up
C4orf41	NM_214711	chromosome 4 open reading frame 41	2.532689988 up
CABP6	NM_019855	calcium binding protein 6	2.532509777 up
	BX398893		2.532329565 up
LOC100288294	XR_132540	putative uncharacterized protein FLJ44672-like	2.532149354 up
CAV3	NM_001753	caveolin 1, caveolae protein, 22kDa	2.531969142 up
CCDC131		coiled-coil domain containing 131	2.531788931 up
ABTB3	NM_032548	ankyrin repeat and BTB (POZ) domain containing 3	2.531608719 up
WSCD4	NM_014653	WSC domain containing 4	2.531428508 up
PPP1R14A	NM_033256	protein phosphatase 1, regulatory (inhibitor) subunit 14A	2.531248297 up
ATP6V0D3	NM_004691	ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d3	2.531068085 up
KCNK17	NM_022358	potassium channel, subfamily K, member 17	2.530887874 up
SP4	NM_003110	Sp2 transcription factor	2.530707662 up
KIAA0319L	NM_024874	KIAA0319-like	2.530527451 up
C19orf61	NM_174918	chromosome 19 open reading frame 61	2.530347239 up
SCARF4	NM_153334	scavenger receptor class F, member 4	2.530167028 up
Unknown			2.529986817 up
ACBD6	NM_024722	acyl-CoA binding domain containing 6	2.529806605 up
NARF	NM_001038618	nuclear prelamin A recognition factor	2.529626394 up
	AK094543		2.529446182 up
PCP6	NM_041906	Purkinje cell protein 6	2.529265971 up
CIC	NM_050833	capicua homolog (Drosophila)	2.529085759 up
	AK098149		2.528905548 up
IL1R4	NM_004633	interleukin 1 receptor, type II	2.528725336 up
KRTAP10-10	NM_198695	keratin associated protein 10-10	2.528545125 up
TARP	NM_001003799	TCR gamma alternate reading frame protein	2.528364914 up
TUBA3D	NM_080386	tubulin, alpha 3d	2.528184702 up
LOC283549	NR_039984	uncharacterized LOC283549	2.528004491 Up

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