

Figure S1. A representative gel electrophoresis of tail DNA samples from *Adar*^{f/f}, *Alb-Cre*⁺ KO (lanes 9,12,13) and littermate controls either *Adar*^{+f/f}, *Alb-Cre*⁺ (lanes 3,4,6,10,11); *Adar*^{f/f} (lanes 1,2,7,14-16); or *Adar*^{+f/f} (lanes 5,8). The gel shows bands corresponding to the following PCR products: *Alb-Cre* transgene (400bp), *Adar* wild type allele (174bp), and floxed allele (214bp), as indicated by the arrows.

Figure S2. (A) WB analysis of p110 and p150 ADAR1 isoforms in total liver (upper) and NPCs (lower) cell lysates from *Adar* Hep-KO mice and littermate controls. Numbers in the table insets show the densitometric analysis of the respective protein. Anti-ADAR1 and anti-HSC70 (as a loading control) antibodies were used for protein detection. (B) Bar graph of normalized p150 to p110 ratio in cell lysates from either total liver or NPC fraction of *Adar* Hep-KO mice and littermate controls.

Figure S3. Relative mRNA levels of the indicated interferon stimulated genes, normalized to HPRT, in two and four-week old *Adar* hep-KO relative to littermate control mice livers (n=2) as determined by qPCR.

Figure S4. A. Scatter plot representation of the 520 dysregulated genes in shADAR1 vs. shControl HepG2 treated cells. Colors represent more than 2 fold change cut-off: green for upregulated genes red for down regulated genes and blue for genes that were not-changed. The two most upregulated genes, IL6 and IL8 are marked. B. Heat map of the NFkB targets dysregulated genes in shADAR1 vs. shControl HepG2 treated cells. Green and red for up and down regulated genes, respectively.

Figure S5. Representative WB analysis of siADAR1 and shp65 co-transfection in HepG2 cells. siControl and shGFP served as negative controls for siADAR1 and shp65 treatments, respectively. Anti-ADAR1, anti-p65 and anti-tubulin (as loading control) antibodies were used for protein detection.

Figure S6. Representative WB analysis of HepG2 cells co-transfected with siADAR1 or siControl together with flag tagged wt and editase domain mutant p110 (siADAR1 resistant) expression vectors. Co- transfection of siControl and Empty flag expression vector served as negative control. Anti-ADAR1 and anti-GAPDH (as loading control) antibodies were used for detection.

Figure S7. p110, p150 and IL6 relative mRNA expression levels in HepG2 cells, following transfection with siControl, siADAR1, siIL6 or siADAR1+siIL6.

Table S1. List of differentially expressed genes in shADAR1 relatively to shControl HepG2 cells (employing a 2FC cut-off filter).

Table S2. Sequences of the primers used (F-forward, R- reverse) for the qPCR based analysis of the relative quantity of the indicated genes.

Figure S1

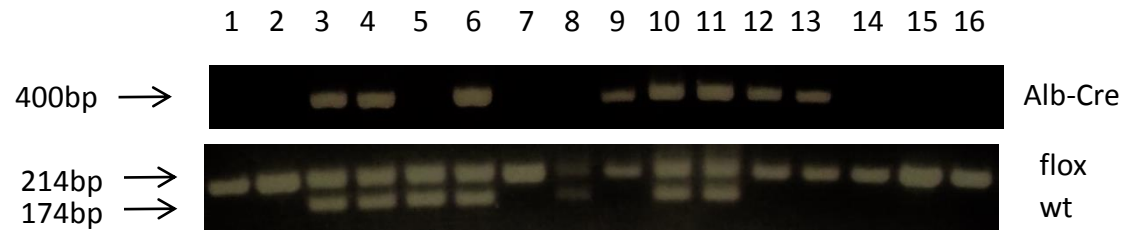
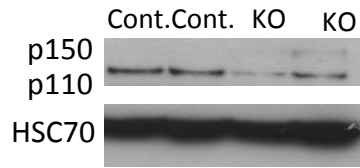


Figure S2

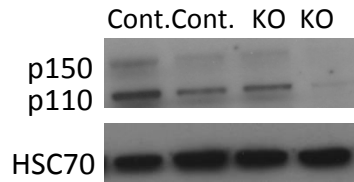
A

Total livers:



p150	1	1	5.93	18.7
p110	78.9	70.12	15.1	45.9
HSC70	949.5	999.3	977.8	1056.7

NPC:



p150	71.60	43.50	36.30	11.20
p110	121.90	79.50	64.30	3.10
HSC70	613.10	647.50	641.20	658.40

B

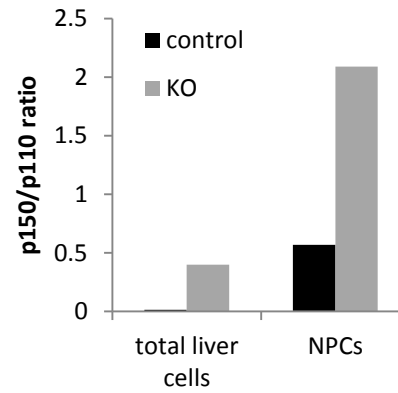


Figure S3

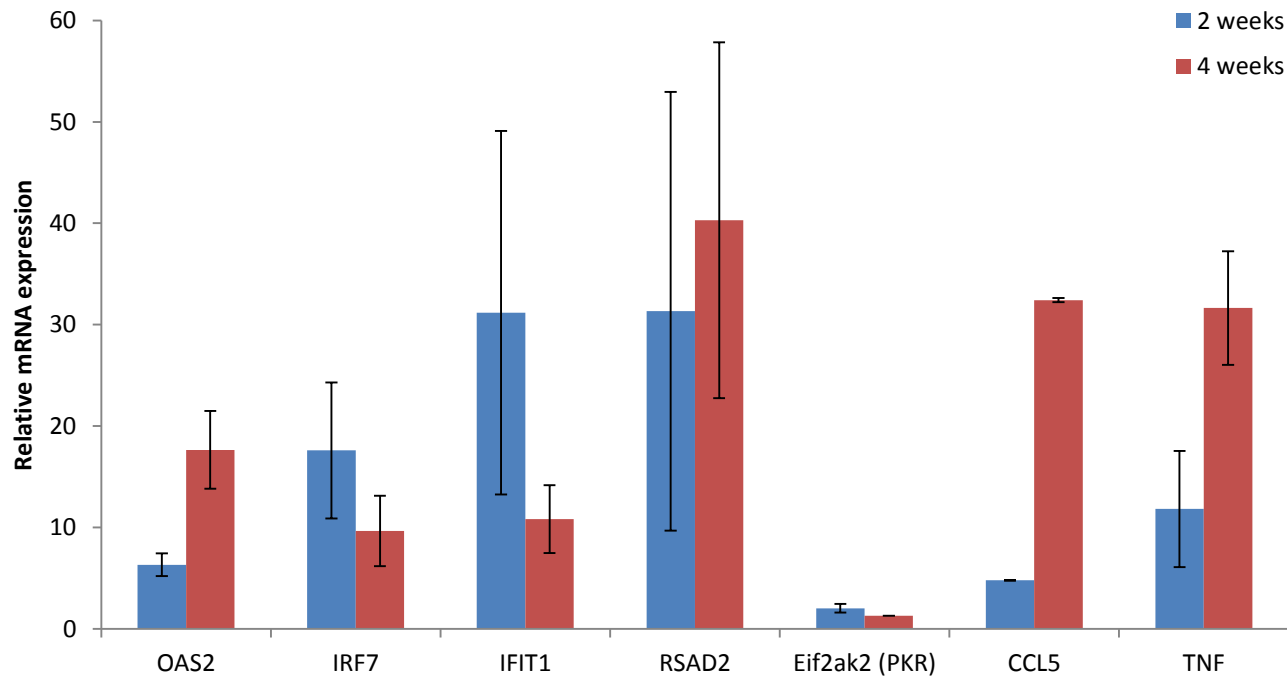


Figure S4

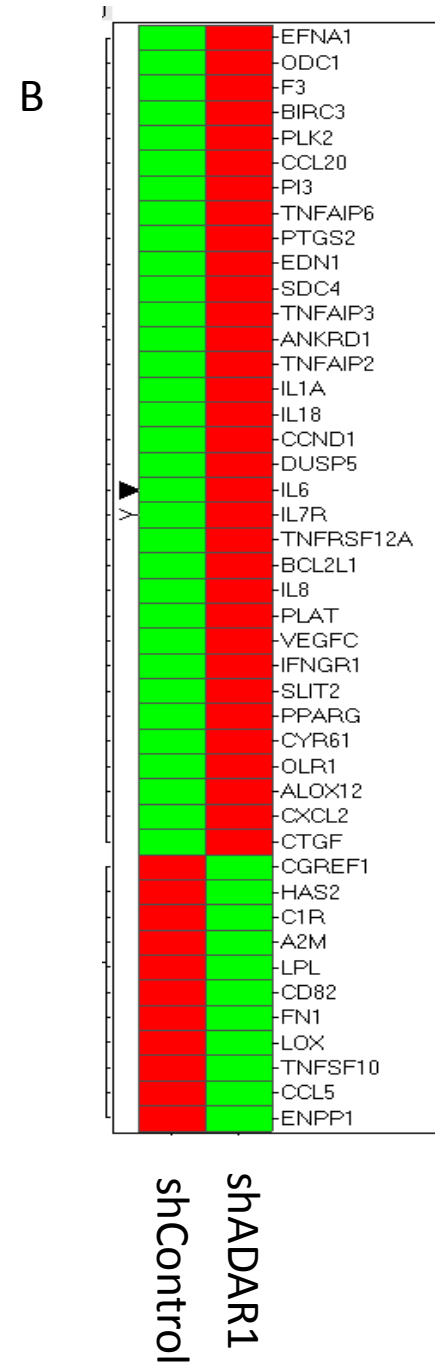
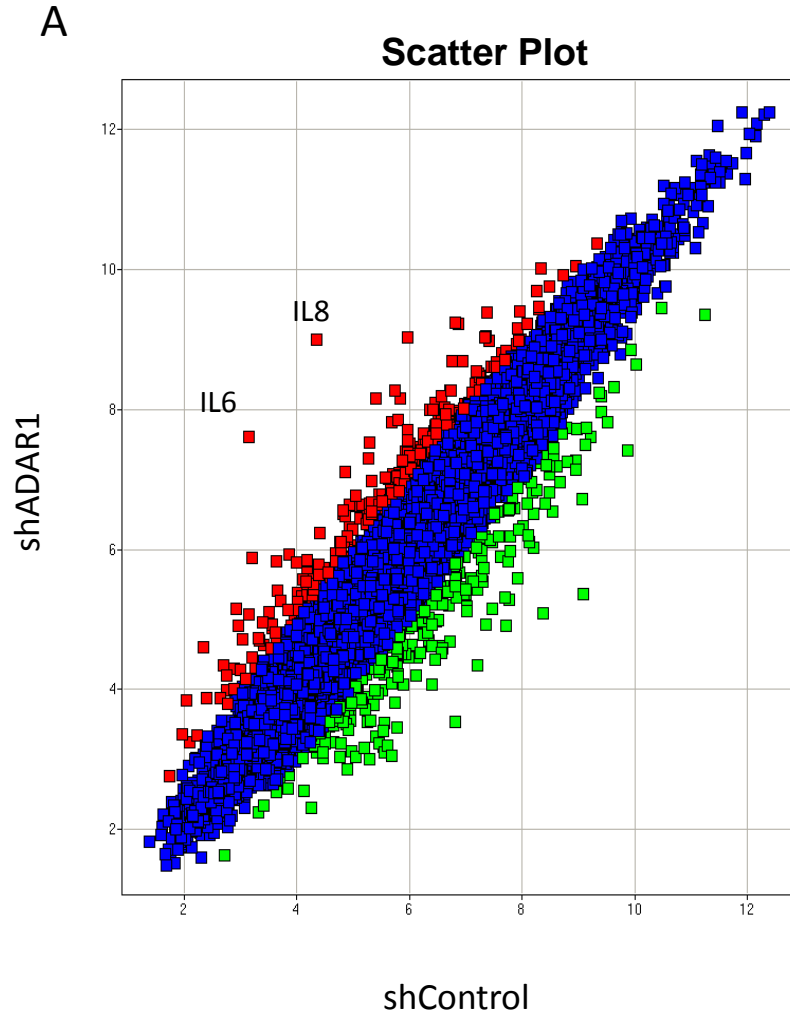


Figure S5

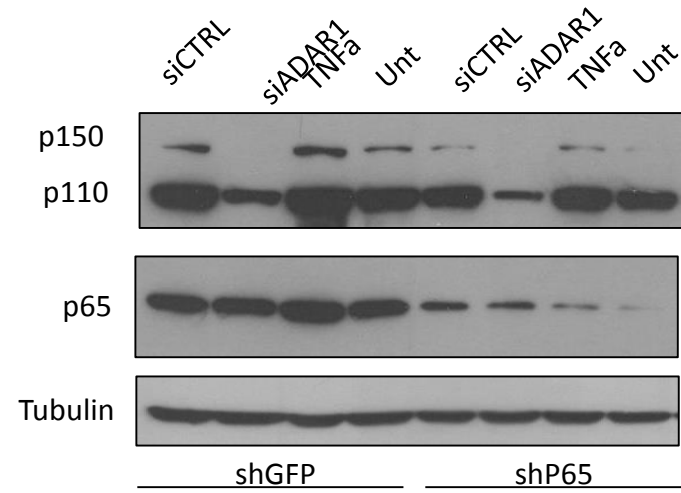


Figure S6

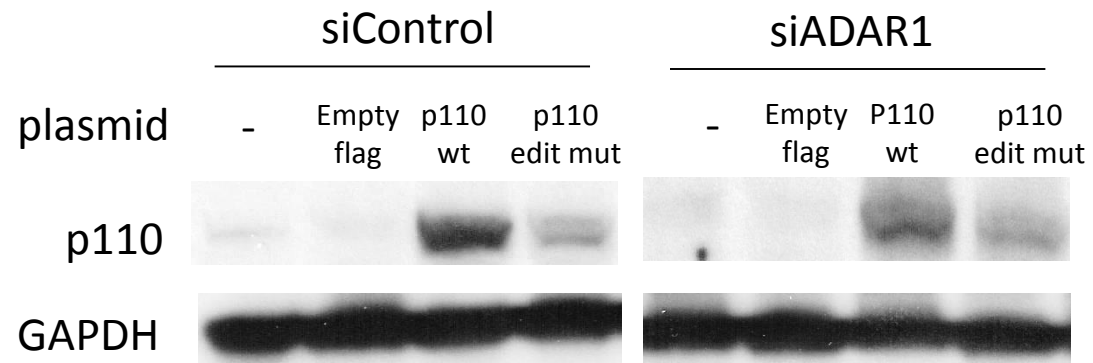


Figure S7

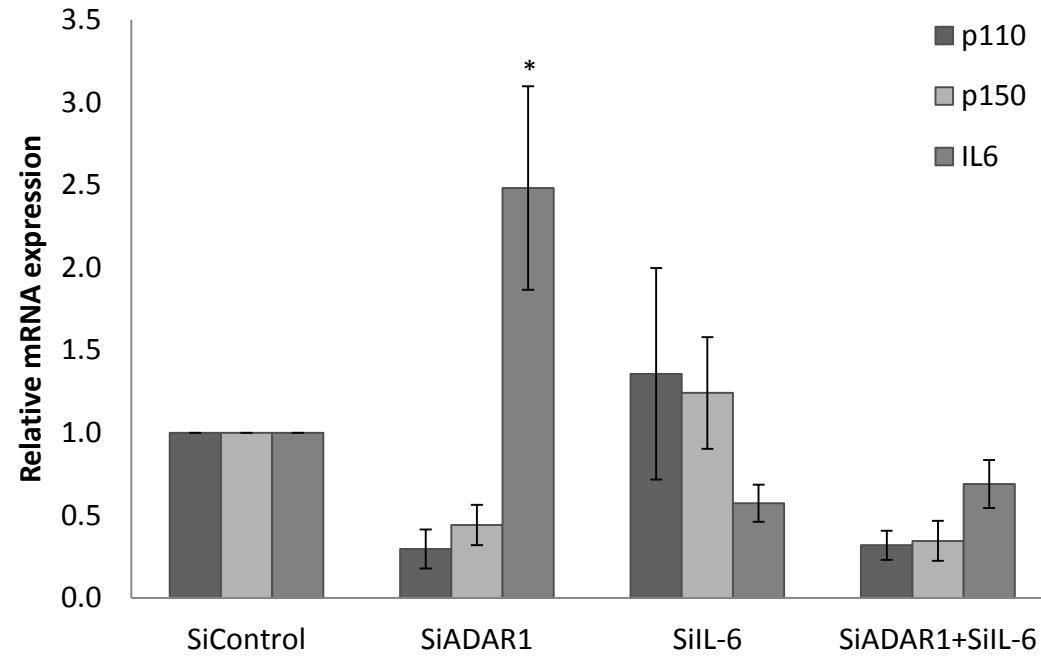


Table S1

ID	gene assignment	Gene Symbol	RefSeq	Fold-Change(DARKD vs. SCR)
271332	NM_00584 // IL8 // interleukin 8 // 4q13-q21 // 3576 // ENST00000307407 // IL8 // int	IL8	NM_000584	24.944
2992576	NM_006060 // IL6 // interleukin 6 (interleukin, beta 2) // 7p21 // 3569 // ENST000004004	IL6	NM_006060	21.9792
3023883	NM_016352 // CPA4 // carboxypeptidase A4 // 7q32 // 51200 // NM_001163446 // CPA4 // c	CPA4	NM_016352	8.36033
2731496	NM_001013442 // EPGN // epithelial mitogen homolog (mouse) // 4q13.3 // 255324 // ENST	EPGN	NM_001013442	6.72465
3811596	NM_006919 // SERPINB3 // serpin peptidase inhibitor, clade B (ovalbumin), member 3 // 1	SERPINB3	NM_006919	6.39299
3346548	NM_001165 // BIRC3 // baculoviral IAP repeat-containing protein 3 // 11q22 // 330 // NM_182962	BIRC3	NM_001165	5.77063
2710593	NM_001011 // CLD13 // claudin 13 // 3q28-q23 // 9076 // ENST0000026522 // CDN1 // c	CLD13	NM_001011	5.41741
2344888	NM_001554 // CYR61 // cysteine-rich, angiogenic inducer, 61 // 1p22.3 // 339 // NM_02570	CYR61	NM_001554	5.10531
2571483	NM_000575 // IL1A // interleukin 1, alpha // 2q14 // 3552 // ENST00000263339 // IL1A //	IL1A	NM_000575	4.98626
4106045	NM_00106938 // TCEAL6 // transcription elongation factor A (SII)-like 6 // Xq22.1 // 1	TCEAL6	NM_00106938	4.75409
2806468	NM_002185 // IL7R // interleukin 7 receptor // 5p13 // 3575 // ENST00000303115 // IL7R	IL7R	NM_002185	4.72001
3338060	NM_138768 // MYEOV // myeloma overexpressed (in a subset of t(11;14) positive multiple	MYEOV	NM_138768	4.71354
3461981	NM_004616 // TSPAN8 // tetraspanin 8 // 12q14.1-q21.1 // 7103 // ENST00000393330 // TS	TSPAN8	NM_004616	4.67219
3059464	NM_006080 // SEMA3A // sema domain, immunoglobulin domain (Ig), short basic domain, sec	SEMA3A	NM_006080	4.58976
2711033	NM_178496 // C3orf159 // chromosome 3 open reading frame 59 // 3q29 // 151983 // ENST00	C3orf159	NM_178496	4.21438
2797771	NM_173553 // TRIML2 // tripartite motif family-like 2 // 4q35.2 // 205860 // ENST00000	TRIML2	NM_173553	4.20848
4026560	NM_152274 // FAM58A // family with sequence similarity 58, member A // Xq28 // 92002 //	FAM58A	NM_152274	4.18669
2834579	NM_205841 // SPINK6 // serine peptidase inhibitor, Kazal type 6 // 5q32 // 404203 // N	SPINK6	NM_205841	4.11263
2448382	NM_000963 // PTGS2 // prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase	PTGS2	NM_000963	4.02244
2766289	NM_029443 // TMEM156 // transmembrane protein 156 // 4p14 // 80008 // ENST00000381938	TMEM156	NM_029443	3.8813
2858023	NM_066222 // PLK2 // polo-like kinase 2 // 5p12.1-q13.2 // 10789 // ENST00000274289 //	PLK2	NM_066222	3.78969
2424174	NR_02679 // MIR137 // microRNA 137 // 1p21.3 // 406928 // AK029278 // FLJ35409 // FLJ	MIR137	NR_02679	3.74587
31129731	NM_057158 // DUSP4 // dual specificity phosphatase 4 // 8p12-p11 // 1846 // NM_001394	DUSP4	NM_057158	3.54614
3596147	NM_004751 // GCNT3 // glucosaminyl (N-acetyl) transferase 3, mucin type // 15q21.3 // 9	GCNT3	NM_004751	3.53914
4031692	NM_004676 // PRY // PTN13-like, Y-linked // Yq11.223 // 9081 // NM_001002758 // PRY2	PRY	NM_004676	3.49381
335885	NM_003860 // BANF1 // barrier to autointegration factor 1 // 11q13.1 // 8815 // NM_001	BANF1	NM_003860	3.34874
2773434	NM_002089 // CXCL2 // chemokine (C-X-C motif) ligand 2 // 4q21 // 2920 // ENST00000264	CXCL2	NM_002089	3.34591
3444043	NM_002543 // OLR1 // oxidized low density lipoprotein (lectin-like) receptor 1 // 12p13	OLR1	NM_002543	3.33746
3898355	NM_198391 // FLRT3 // fibroblast leucine rich transmembrane protein 3 // 20p11.1 // 2376	FLRT3	NM_198391	3.33549
2980516	NM_004872 // ABCG2 // ATP-binding cassette, sub-family G (WHITE), member 2 // 4q22 // 9	ABCG2	NM_004872	3.29137
3840142	NM_144684 // ZNF480 // zinc finger protein 480 // 19q13.41 // 147657 // ENST0000046824	ZNF480	NM_144684	3.25925
2895244	NM_001955 // EDN1 // endothelin 1 // 6p24.1 // 1906 // NM_001168319 // EDN1 // endothe	EDN1	NM_001955	3.24656
3391255	NM_001562 // IL18 // interleukin 18 (interferon-gamma-inducing factor) // 11q22.2-q22.3	IL18	NM_001562	3.23089
3553531	NM_006291 // TNFAIP2 // tumor necrosis factor, alpha-induced protein 2 // 14q32 // 7127	TNFAIP2	NM_006291	3.20973
3299970	NM_014391 // ANKRD1 // ankyrin repeat domain 1 (cardiac muscle) // 10q23.31 // 27063 //	ANKRD1	NM_014391	3.20122
2775909	NM_106191 // PLAC8 // placenta-specific 8 // 4q21.22 // 51316 // NM_001130715 // PLAC8	PLAC8	NM_106191	3.19144
3045203	NM_002974 // SERPINA3 // serpin peptidase inhibitor, clade B (ovalbumin), member 3 // 1	SERPINA3	NM_002974	3.18587
38115174	NM_002974 // SERPINA3 // serpin peptidase inhibitor, clade B (ovalbumin), member 4 // 1	SERPINA4	NM_002974	3.12928
2897172	NM_182757 // RNF144B // ring finger protein 144B // 6p22.3 // 255488 // ENST0000025993	RNF144B	NM_182757	3.12483
2515627	NM_000210 // ITGA6 // integrin, alpha 6 // 2q31.1 // 3655 // NM_001079818 // ITGA6 //	ITGA6	NM_000210	3.10962
2927506	NM_006290 // TNFAIP3 // tumor necrosis factor, alpha-induced protein 3 // 6q23 // 7128	TNFAIP3	NM_006290	3.0807
3474495	NM_016399 // TRIAP1 // TP53 regulated inhibitor of apoptosis 1 // 12q24.31 // 51499 // 9	TRIAP1	NM_016399	3.07932
2991860	NM_002214 // ITGB8 // integrin, beta 8 // 7p21.1 // 3696 // ENST0000022273 // ITGB8 //	ITGB8	NM_002214	3.06082
2948203	NM_002974 // SERPINA3 // serpin peptidase inhibitor, clade B (ovalbumin), member 3 // 1	SERPINA3	NM_002974	3.05408
2534564	NM_008678 // UBE2F // ubiquitin-conjugating enzyme E2F (putative) // 2q37.3 // 140739 //	UBE2F	NM_008678	3.01398
3945572	NM_014508 // APOBEC3C // apolipoprotein B mRNA editing enzyme, catalytic polypeptide-li	APOBEC3C	NM_014508	3.00497
2510464	NM_007115 // TNFAIP6 // tumor necrosis factor, alpha-induced protein 6 // 2q32.3 // 713	TNFAIP6	NM_007115	2.96985
386765	NM_002638 // PI3 // peptidase inhibitor 3, skin-derived // 20q13.12 // 5266 // ENST000	PI3	NM_002638	2.95124
286296	NM_003633 // ENC1 // ectodermal-neural crest 1 (with BTB-like domain) // 5q13 // 8507	ENC1	NM_003633	2.94774
2732844	NM_005139 // ANXA3 // annexin A3 // 4q21.21 // 306 // ENST00000264908 // ANXA3 // anne	ANXA3	NM_005139	2.94146
3227070	NM_004872 // PTGES // prostaglandin H synthase // 8q34.3 // 8536 // ENST00000340607 //	PTGES	NM_004872	2.93339
2914237	NM_001983 // CCR3 // chemokine receptor type 3 // 11q22-q21 // 1222-221 // 103	CCR3	NM_001983	3.01118
3978424	NM_058163 // TSR2 // TSR2, 20S rRNA accumulation, homolog (S. cerevisiae) // Xp11.22 //	TSR2	NM_058163	2.82994
3808745	NM_025214 // CDC68 // coiled-coil domain containing 68 // 18q21 // 80323 // NM_001143	CDC68	NM_025214	2.8137
3405748	NM_001423 // EMP1 // epithelial membrane protein 1 // 12p12.3 // 2012 // ENST000002569	EMP1	NM_001423	2.78661
2755949	NM_207312 // TUBA3E // tubulin, alpha 3e // 2q21.1 // 112714 // NM_080386 // TUBA3D //	TUBA3E	NM_207312	2.77583
2358693	NM_006818 // MLLT1 // myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, D	MLLT1	NM_006818	2.77543
3014671	NM_006409 // ARPC1A // arctin related protein 23 complex, subunit 1A, 41kDa // 7q22.1 //	ARPC1A	NM_006409	2.77333
3369184	NM_001193 // ZNF480 // zinc finger protein 480 // 19q13.41 // 147657 // ENST0000046824	ZNF480	NM_001193	2.73587
2880292	NM_001197294 // DPYSL3 // diphosphopyridinase-like 3 // 5q32 // 1809 // NM_001387 // D	DPYSL3	NM_001197294	2.73367
2878490	NM_003714 // STC2 // stannocalcin 2 // 5q35.1 // 8614 // ENST00000265087 // STC2 // s	STC2	NM_003714	2.72529
2946714	NM_005993 // HIST1H2BK // histone cluster 1, H2bk // 6p21.33 // 85236 // ENST000003968	HIST1H2BK	NM_005993	2.69099
2306077	NM_004428 // EFNA1 // ephrin-A1 // 1q21-q22 // 1942 // NM_182685 // EFNA1 // ephrin-A1	EFNA1	NM_004428	2.6763
3224333	NM_001004454 // OR1L8 // olfactory receptor, family 1, subfamily L, member 8 // 9q33.2	OR1L8	NM_001004454	2.6656
3041244	ENST00000404625 // IL6 // interleukin 6 (interleukin, beta 2) // 7p21 // 3569 // ENST00	IL6	ENST00000404625	2.66152
3348940	NM_005139 // ANXA3 // annexin A3 // 4q21.21 // 306 // ENST00000264908 // ANXA3 // anne	ANXA3	NM_005139	2.64586
2997097	NM_001788 // SEPT7 // septin 7 // 8p11.2 // 26298 // ENST0000027831 // SEPT7 // s	SEPT7	NM_001788	2.64201
2358993	NM_020127 // TUF1 // tuftsin 1 // 1q21 // 7286 // NM_001126337 // TUF1 // tuftsin	TUF1	NM_020127	2.64059
3822949	NM_012377 // OR7C2 // olfactory receptor, family 7, subfamily C, member 2 // 19p13.1 //	OR7C2	NM_012377	2.63472
2718113	NM_024090 // ELOVL6 // ELOVL6 family member 6, elongation of long chain fatty acids (FEN	ELOVL6	NM_024090	2.63067
3061438	NM_017654 // SAMD9 // sterile alpha motif domain containing 9 // 7q21.2 // 54809 // NM	SAMD9	NM_017654	2.61306
3247172	NM_012242 // DKK1 // dickkopf homolog 1 (Xenopus laevis) // 10q11.2 // 22943 // ENST00	DKK1	NM_012242	2.61156
3445908	NM_004447 // EP58 // epidermal growth factor receptor pathway substrate 8 // 12p12.3 // 7	EP58	NM_004447	2.61114
3008516	NM_001193 // ZNF480 // zinc finger protein 480 // 19q13.41 // 147657 // ENST0000046824	ZNF480	NM_001193	2.60867
3211543	NM_139286 // CDC26 // cell division cycle 26 homolog (S. cerevisiae) // 9q32 // 246184 //	CDC26	NM_139286	2.59528
3783723	NM_017831 // RNF125 // ring finger protein 125 // 18q12.1 // 54941 // ENST0000021740	RNF125	NM_017831	2.59183
3554851	NM_001311 // CRIP1 // cysteine-rich protein 1 (intestinal) // 14q32.33 // 1396 // ENST00	CRIP1	NM_001311	2.58161
3059667	NM_152754 // SEMA3D // sema domain, immunoglobulin domain (Ig), short basic domain, sec	SEMA3D	NM_152754	2.58041
3452478	NM_001143668 // AMIGO2 // adhesion molecule with Ig-like domain 2 // 12q13.11 // 347902	AMIGO2	NM_001143668	2.56602
2879105	NM_003964 // SPRY4 // sprouty homolog 4 (Drosophila) // 5q31.3 // 81848 // NM_001127479	SPRY4	NM_003964	2.56557
2580902	NM_005139 // ANXA3 // annexin A3 // 4q21.21 // 306 // ENST00000264908 // ANXA3 // anne	ANXA3	NM_005139	2.56445
3326467	NM_01153 // EHF // ets homologous factor // 11p12 // 26298 // ENST0000027831 // SEPT7 // s	EHF	NM_01153	2.55537
3133233	NM_000930 // PLAT // plasminogen activator, tissue // 8p12 // 5327 // NM_030011 // PLA	PLAT	NM_000930	2.53735
2929699	NM_006834 // RAB32 // RAB32, member RAS oncogene family // 6q24.3 // 10981 // ENST0000	RAB32	NM_006834	2.52809
3119200	NM_005672 // PSCA // prostate stem cell antigen // 8q24.2 // 8000 // NR_033343 // PSCA	PSCA	NM_005672	2.51854
2696309	NM_016201 // AMOTL2 // angiomotin like 2 // 3q21-q22 // 51421 // ENST00000249883 // AM	AMOTL2	NM_016201	2.50715
3757108	NM_002276 // KRT19 // keratin 19 // 17q21.2 // 3880 // ENST00000361566 // KRT19 // ker	KRT19	NM_002276	2.50267
3445786	NM_001176 // RHOA // rho GTPase activating protein 39 // 12p12.3 // 39 // NM_001176	RHOA	NM_001176	2.49393
2819747	NM_006467 // POLR3G // polymerase (RNA) III (DNA directed) polypeptide 3 (32kD) // 4q14	POLR3G	NM_006467	2.48626
3831698	NM_144689 // ZNF420 // zinc finger protein 420 // 19q13.12 // 147923 // ENST0000033799	ZNF420	NM_144689	2.48626
3042610	NM_003930 // SKAP2 // src kinase associated phosphoprotein 2 // 7p15.2 // 8935 // ENST	SKAP2	NM_003930	2.47902
2984616	NM_016098 // BRP44L // brain protein 44-like // 6q27 // 51660 // ENST0000030961 // BR	BRP44L	NM_016098	2.46294
2395177	NM_018948 // ERF1 // ERBB receptor feedback inhibitor 1 // 1p36 // 54206 // ENST0000	ERF1	NM_018948	2.46100
3453732	NM_006082 // TUBA1B // tubulin, alpha 1b // 12q13.12 // 10376 // ENST0000036023 // TU	TUBA1B	NM_006082	2.46096
2562729	NM_029212 // REEP1 // receptor accessory protein 1 // 2p11.2 // 65055 // NM_001164731	REEP1	NM_029212	2.45743
2453370	NM_025179 // PLXNA2 // plexin A2 // 1q32.2 // 5362 // ENST00000367033 // PLXNA2 // p	PLXNA2	NM_025179	2.45695
3829664	NR_024018 // ZNF30 // zinc finger protein 30 // 19q13.11 // 90075 // NM_001099438 // Z	ZNF30	NR_024018	2.45615
3185063	NM_003358 // UGCG // UDP-glucose ceramide glucosyltransferase // 9q31 // 7357 // ENST0	UGCG	NM_003358	2.45421
3869333	NM_018698 // NXT2 // nuclear transport factor 2-like export factor 2 // Xq23 // 55916 //	NXT2	NM_018698	2.45397
3333443	NM_001083926 // ASRGL1 // asparaginase like 1 // 11q12.3 // 80150 // NM_025080 // ASRG	ASRGL1	NM_001083926	2.45059
2976768	NM_006079 // CITED2 // Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-	CITED2	NM_006079	2.44969
2635895	NM_001134438 // PHLD82 // pleckstrin homology-like domain, family B, member 2 // 3q13.2	PHLD82	NM_001134438	2.44456
3250973	NM_005139 // ANXA3 // annexin A3 // 4q21.21 // 306 // ENST00000264908 // ANXA3 // anne	TSPAN8	NM_005139	2.44445
2937948	NM_004431 // EPHA2 // ephrasin receptor A2 // 1p36 // 1969 // ENST00000407976 // EPHA2 // E	EPHA2	NM_004431	2.44108
3337749	NM_015973 // GAL // galanin prepropeptide // 11q13.3 // 51083 // ENST00000265643 // GA	GAL	NM_015973	2.43777
3592511	NM_021199 // SQRDL // sulfide quinone reductase-like (yeast) // 15q15 // 58472 // ENST	SQRDL	NM_021199	2.4328
4054117	NM_005645 // TAF13 // TAF13 RNA polymerase II, TATA box binding protein (TBP)-associa	TAF13	NM_005645	2.4153
2627080	AF236158 // C3orf14 // chromosome 3 open reading frame 14 // 3p14.2 // 57415 // BC0177	C3orf14	AF236158	2.41074
2611056	NM_138712 // PPAR6 // peroxisome proliferator-activated receptor gamma // 3p25 // 5468	PPAR6	NM_138712	2.40422
2423829	NM_004815 // ARHGAP29 // Rho GTPase activating protein 29 // 12p21.1 // 9411 // NM_02576	ARHGAP29	NM_004815	2.40576
3147870	NM_001176 // RHOA // rho GTPase activating protein 39 // 12p12.3 // 39 // NM_001176	ARHGAP10B	NM_001176	2.40268
3988444	NM_001135565 // HDHD1 // haloacid dehalogenase-like hydrolase domain containing 1 // Xp	HDHD1	NM_001135565	2.39313
3259431	NM_178354 // LCE1F // late cornified envelope 1F // 1q21.3 // 353137 // ENST0000033347	LCE1F	NM_178354	2.39088
3267343	NM_004419 // DUSP5 // dual specificity phosphatase 5 // 10q25 // 1847 // ENST000003695	DUSP5	NM_004419	2.38713
4053903	NM_058238 // WNT7B // wingless-type MMTV integration site family, member 7B // 22q13			

2986493	NM_002793	PSMB1 // proteasome (prosome, macropain) subunit, beta type, 1 // 6q27.11	PSMB1	NM_002793	2.32716
4013434	NM_015975	TAFB9 // TAF9B RNA polymerase II, TATA box binding protein (TBP)-associated	TAFB9	NM_015975	2.32595
4015440	NM_080737	SYTL4 // synaptotagmin-like 4 // Xq21.33 // 9q12.1 // NM_001129896 // SYTL	SYTL4	NM_080737	2.32076
3224259	NR_027125	RBM18 // RNA binding motif protein 18 // 9q33.2 // 9q400 // NR_027126	RBM18	NR_027125	2.31732
3932838	NM_022044	SDF2L1 // stromal cell-derived factor 2-like 1 // 22q11.21 // 23753 // EN	SDF2L1	NM_022044	2.3172
2812120	NM_005869	CWC27 // CWC27 spliceosome-associated protein homolog (S. cerevisiae) // 5	CWC27	NM_005869	2.31647
4000456	NR_033769	ASB9P // ankryin repeat and SOCS box-containing 9 pseudogene 1 // 15q26.1	ASB9P1	NR_033769	2.31437
3959441	NM_005893	CCN1 // cyclin D1 // 11q13.3 // 595 // ENST0000027507 // CCN1 // cyclin	CCN1	NM_005893	2.31248
3983962	NM_007309	DIAPH2 // diaphanous homolog 2 (Drosophila) // Xq21.33 // 1730 // NM_0067	DIAPH2	NM_007309	2.31237
3462816	NM_007350	PHLDA1 // pleckstrin homology-like domain, family A, member 1 // 12q15	PHLDA1	NM_007350	2.30763
2158889	NM_194250	ZNF804A // zinc finger protein 804A // 2q32.1 // 91752 // ENST0000302277	ZNF804A	NM_194250	2.29727
3338192	NM_053056	CCND1 // cyclin D1 // 11q13.3 // 595 // ENST0000027507 // CCN1 // cyclin	CCND1	NM_053056	2.29714
3047660	NM_000168	GLI3 // GLI family zinc finger 3 // 7p13 // 2737 // ENST0000035925 // GLI	GLI3	NM_000168	2.29305
4045643	NM_080388	S100A16 // S100 calcium binding protein A16 // 1q21 // 140576 // ENST00000	S100A16	NM_080388	2.28789
3357987	NM_138342	GLB1L2 // GLEB1 // galactose-4-epimerase, beta 1-like 2 // 11q25 // 89444 // ENST000003899	GLB1L2	NM_138342	2.28785
3630089	NM_017858	TIPIN // TIMELESS interacting protein // 15q23.3 // 54962 // NR_004388 //	TIPIN	NM_017858	2.27742
2794792	NM_005429	VEGFC // vascular endothelial growth factor C // 4q34.3 // 7424 // ENST00	VEGFC	NM_005429	2.27529
3590275	NM_024111	CHAC1 // Chac, cation transport regulator homolog 1 (E. coli) // 15q15.1	CHAC1	NM_024111	2.27521
3803290	NM_022751	FAM59A // family with sequence similarity 59, member A // 18q12.1 // 64762	FAM59A	NM_022751	2.27436
4012142	NM_017669	ERCC6L // excision repair cross-complementing rodent repair deficiency, co	ERCC6L	NM_017669	2.27411
3353335	NM_032873	UBASH3B // ubiquitin associated and SH3 domain containing B // 11q24.1	UBASH3B	NM_032873	2.27025
3659858	NM_153261	TMEM188 // transmembrane protein 188 // 16q12.1 // 255919 // ENST000004058	TMEM188	NM_153261	2.26771
2378957	NM_005809	ATP11B // ATPase-containing 11B (ATPase-containing) subunit A // 6q25 // 1104	ATP11B	NM_005809	2.26622
3367338	NM_031217	KIF18A // kinesin family member 18A // 11p14.1 // 81930 // ENST0000026318	KIF18A	NM_031217	2.26359
2976113	NM_000416	IFNGR1 // interferon gamma receptor 1 // 6q23.3 // 3459 // ENST0000036773	IFNGR1	NM_000416	2.26203
3041519	NM_013293	TRA2A // transformer 2 alpha homolog (Drosophila) // 7p15.3 // 29896 // E	TRA2A	NM_013293	2.26084
3464860	NM_001946	DUSP6 // dual specificity phosphatase 6 // 12q22-q23 // 1848 // NM_022652	DUSP6	NM_001946	2.2523
3986672	NM_052936	ATGA4 // ATG4 autophagy related 4 homolog A (S. cerevisiae) // Xq22.1-q22.	ATGA4	NM_052936	2.25115
3628112	NM_001238	CONE1 // cyclin E1 // 19q12 // 898 // NM_007182 // CONE1 // cyclin E1	CONE1	NM_001238	2.24656
2512701	NM_001432	EREG // epiregulin // 4q31.3 // 2069 // ENST0000024868 // EREG // eotiga	EREG	NM_001432	2.24344
2413180	NM_002370	MAGOH // mag-nashi homolog, proliferation-associated (Drosophila) // 1p32	MAGOH	NM_002370	2.23772
2601414	NM_006216	SERPINE2 // serpin peptidase inhibitor, clade E (nexin, plasminogen activa	SERPINE2	NM_006216	2.23069
2941721	NM_017770	ELOVL2 // elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3,	ELOVL2	NM_017770	2.2278
2409220	NM_00159936	EBNA1BP2 // EBNA1 binding protein 2 // 1p35-p33 // 10969 // NM_006824	EBNA1BP2	NM_00159936	2.22643
3474619	NM_015918	POPS // processing of precursor 5, ribonuclease P/MRP subunit (S. cerevisi	POPS	NM_015918	2.22196
3219215	NM_004235	KLFA // Kruppel-like factor 4 (gut) // 9q31 // 9314 // ENST00000374672 //	KLFA	NM_004235	2.21995
2733928	NM_001619	COPR4 // COP9 constitutive photomorphogenic homolog subunit 4 (Arabidopsis	COPR4	NM_001619	2.21422
3593704	NM_198275	MPZL3 // myelin protein zero-like 3 // 10q32.3 // 196284 // ENST0000020789	MPZL3	NM_198275	2.21100
3791996	NM_002640	SERPINB8 // serpin peptidase inhibitor, clade B (ovalbumin), member B // 1	SERPINB8	NM_002640	2.21062
2980258	NM_019041	MTRF1L // mitochondrial translational release factor 1-like // 6q25-q26 // 1	MTRF1L	NM_019041	2.20302
2635906	NM_00134438	PHLDB2 // pleckstrin homology-like domain, family B, member 2 // 3q13.2	PHLDB2	NM_00134438	2.20187
3902489	NM_138578	BCL2L1 // BCL2-like 1 // 20q11.21 // 598 // NM_001191 // BCL2L1 // BCL2-1	BCL2L1	NM_138578	2.20162
3774283	NM_004309	ARHGDI4 // Rho GTP dissociation inhibitor (GDI) alpha // 17q25.3 // 396 // 1	ARHGDI4	NM_004309	2.20061
2558612	NM_003236	TGFA // transforming growth factor, alpha // 2p13 // 7039 // NM_001096981	TGFA	NM_003236	2.19956
2341984	NM_001242	MGTA // myelin basic protein and DNA-damage-inducible alpha // 13q13.3 // 1647	MGTA	NM_001242	2.19388
2731513	NM_001432	EREG // epiregulin // 4q31.3 // 2069 // ENST0000024868 // EREG // eotiga	EREG	NM_001432	2.19306
2939814	NM_006638	RPP40 // ribonuclease P/MRP 40kDa subunit // 6p25.1 // 10799 // ENST00000	RPP40	NM_006638	2.188
2406722	NM_032881	LSM10 // LSM10, U7 small nuclear RNA associated // 1p34.3 // 84967 // NM_0	LSM10	NM_032881	2.18701
2683651	NM_182617	ACSM2B // acyl-CoA synthetase medium-chain family member 2B // 16p12.3 // 0	ACSM2B	NM_182617	2.18521
3636886	NM_014180	MRPL22 // mitochondrial ribosomal protein L22 // 5q33.2 // 29093 // NM_00	MRPL22	NM_014180	2.1849
3196691	NM_014878	KIAA0020 // KIAA0020 // 9p24.2 // 9933 // ENST00000397885 // KIAA0020 //	KIAA0020	NM_014878	2.18241
2709132	NM_004454	ETV5 // ets variant 5 // 3q28 // 2119 // ENST00000306376 // ETV5 // ets v	ETV5	NM_004454	2.18224
3937447	NM_002798	PSMA3 // proteasome (prosome, macropain) subunit, alpha type, 3 // 1q23.3	PSMA3	NM_002798	2.17967
3942161	NM_001003684	UQCRC1 // ubiquinol-cytochrome c reductase, complex III subunit X // 22	UQCRC1	NM_001003684	2.17721
3284302	NM_003873	NRP1 // neuropilin 1 // 10p12 // 8829 // NM_001024628 // NRP1 // neuropil	NRP1	NM_003873	2.17627
3988126	NM_017714	TASP1 // taspase, threonine aspartase, 1 // 20p12.1 // 55617 // ENST00000	TASP1	NM_017714	2.17281
3293280	NM_021129	PPA1 // pyrophosphatase (inorganic) // 1 // 10q11.1-q24 // 5464 // ENST00000	PPA1	NM_021129	2.17252
3141809	NM_014018	MRPS28 // mitochondrial ribosomal protein S28 // 8q21.1-q21.2 // 28957 // 1	MRPS28	NM_014018	2.17001
2520249	NM_00130158	MYO1B // myosin I // 2q12-q34 // 4430 // NM_001161819 // MYO1B // myo	MYO1B	NM_00130158	2.16805
3790740	NM_001242	EREG // epiregulin // 4q31.3 // 2069 // ENST0000024868 // EREG // eotiga	EREG	NM_001242	2.16320
2463515	NM_001821	CHML // chorioideremia-like (Rab escort protein 2) // 1q42-qter // 1122 // 11	CHML	NM_001821	2.16307
3428447	NM_014503	UTP20 // UTP20, small subunit (SSU) processome component, homolog (yeast)	UTP20	NM_014503	2.16135
2749699	NM_014247	RAPGEF2 // Rap guanine nucleotide exchange factor (GEF) 2 // 4q32.1 // 969	RAPGEF2	NM_014247	2.16082
3524570	NM_004093	EFNB2 // ephrin-B2 // 13q33 // 1948 // ENST00000245323 // EFNB2 // ephrin	EFNB2	NM_004093	2.15801
3636522	NM_016073	HDFGRP3 // hedgehato-derived growth factor, related protein 3 // 15q25.2 // 1	HDFGRP3	NM_016073	2.15591
2501330	NM_001830	CLCN4 // chloride channel 4 // Xp22.3 // 1183 // ENST00000380833 // CLCN4	CLCN4	NM_001830	2.15387
3653333	NM_003314	MTX1 // methotrexate 1 // 19p15 // 6298 // NM_001035424 // MTX1 // 1	MTX1	NM_003314	2.15245
2503200	NM_002881	RALB // v-rat simian leukemia viral oncogene homolog B (as related: GTP b	RALB	NM_002881	2.1495
2974330	NM_001901	CTGF // connective tissue growth factor // 6q23.1 // 1490 // ENST000003067	CTGF	NM_001901	2.147
2857131	NM_019030	DHX29 // DEAH (Asp-Glu-Ala-His) box polypeptide 29 // 5q11.2 // 54505 // 0	DHX29	NM_019030	2.14377
4012154	NM_001007	RPS4X // ribosomal protein S4, X-linked // Xq13.1 // 6191 // ENST000003016	RPS4X	NM_001007	2.1437
3701837	NM_005792	MPHOSPH6 // M-phase phosphoprotein 6 // 16q23.3 // 10200 // ENST000002581	MPHOSPH6	NM_005792	2.14107
2486740	NM_020143	PNO1 // partner of NOB1 homolog (S. cerevisiae) // 2p14 // 5690 // ENST000	PNO1	NM_020143	2.1353
2812233	NM_015342	PEP1 // peptidylprolyl isomerase domain containing 1 // 10q26.3 // 11821	PEP1	NM_015342	2.13401
3343436	NM_001300	KLFB // Kruppel-like factor B // 10p15 // 1316 // NR_027653 // KLFB // 1	KLFB	NM_001300	2.13397
3741528	NM_014604	TAX1BP3 // Tax1 (human T-cell leukemia virus type 1) binding protein 3 // 1	TAX1BP3	NM_014604	2.12875
3555272	NM_138376	TTCS // tetratricopeptide repeat domain 5 // 14q11.2 // 91875 // ENST00000	TTCS	NM_138376	2.12544
3708160	NM_000697	ALOX12 // arachidonate 12-lipoxygenase // 17p13.1 // 239 // ENST000002515	ALOX12	NM_000697	2.12501
3702547	NM_021149	COTL1 // coactosin-like 1 (Dicyostelium) // 16q24.1 // 23406 // ENST00000	COTL1	NM_021149	2.11968
3717737	NM_002815	PSMD11 // proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 // 1	PSMD11	NM_002815	2.11389
3531032	NM_016106	SCFD1 // sect family nuclear domain containing 1 // 14q12 // 23256 // NM_182835	SCFD1	NM_016106	2.10951
3784344	NM_001428	RNF11 // ring finger protein 11 // 19p13 // 4501 // ENST00000394485 // RNF11 //	RNF11	NM_001428	2.10812
3427014	NM_003095	SNRPF // small nuclear ribonucleoprotein polypeptide F // 12q23.1 // 6636	SNRPF	NM_003095	2.10504
2779823	NM_022154	SLC39A8 // solute carrier family 39 (zinc transporter), member 8 // 4q22-q	SLC39A8	NM_022154	2.10414
3261952	NM_001136200	C10orf32 // chromosome 10 open reading frame 32 // 10q24.32 // 119032 // 1	C10orf32	NM_001136200	2.10076
2750594	NM_006745	SC4MOL // sterol-C4-methyl oxidase-like // 4q32-q34 // 6307 // NM_0010173	SC4MOL	NM_006745	2.0966
2438344	NM_182679	GPATCH4 // G patch domain containing 4 // 1q22 // 54865 // NM_015590 // G	GPATCH4	NM_182679	2.09225
3705641	NM_003337	TMM22 // translocase of inner mitochondrial membrane 22 homolog (yeast) //	TMM22	NM_003337	2.09439
2923661	NM_004251	GJA1 // gap junction protein, alpha 1 // 43kDa // 6q21-q23.2 // 2687 // NM_0	GJA1	NM_004251	2.09278
2934121	NM_005881	ACSL1 // acyl-CoA acyltransferase 1 // 11q13 // 33869 // ENST0000036704	ACSL1	NM_005881	2.08875
2984573	NM_145169	SFT2D1 // SFT2 domain containing 1 // 6q27 // 113402 // ENST00000361731 //	SFT2D1	NM_145169	2.08804
3907234	NM_002999	SDCA1 // syndecan 4 // 20q12 // 6385 // ENST00000372733 // SDCA // syndeca	SDCA1	NM_002999	2.08794
3554592	NM_033271	BTBD6 // BTB (POZ) domain containing 6 // 14q32 // 90135 // ENST000003925	BTBD6	NM_033271	2.08691
4000560	NM_003662	PIR // pirin (iron-binding nuclear protein) // Xp22.2 // 8544 // NM_00101	PIR	NM_003662	2.08461
2522094	NM_00110422	SPATS2L // spermatogenesis associated, serine-rich 2-like // 2q33.1 // 1	SPATS2L	NM_00110422	2.08147
3221135	NM_021218	C3orf60 // chromosome 3 open reading frame 80 // 9q32 // 58493 // ENST000	C3orf60	NM_021218	2.07729
2664607	NM_206831	DPH3 // DPH3, K1111 homolog (S. cerevisiae) // 3p25 // 28538 // NM_001	DPH3	NM_206831	2.0774
4053030	NM_020535	KIR2DL5A // killer cell immunoglobulin-like receptor, two domains, long cy	KIR2DL5A	NM_020535	2.07701
3857691	NM_006003	UQCRCF5 // ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptid	UQCRCF5	NM_006003	2.07636
3107828	NM_024613	PLEKHF2 // pleckstrin homology domain containing, family F (with FYVE doma	PLEKHF2	NM_024613	2.07438
2688277	NM_006166	NYFB // nuclear transcription factor Y, beta // 12q22-q23 // 4801 // ENST	NYFB	NM_006166	2.06879
3719962	NM_002795	PSMB3 // proteasome (prosome, macropain) subunit, beta type, 3 // 17q12.1	PSMB3	NM_002795	2.06765
3969422	NM_004251	RAB9A // RAB9A, member RAS oncogene family // Xp22.2 // 9367 // NM_001195	RAB9A	NM_004251	2.06407
3662247	NM_005852	MTX1 // methotrexate 1 // 19p15 // 6298 // NM_001035424 // MTX1 // 1	MTX1	NM_005852	2.05969
3686635	NM_018690	APOB48R // apolipoprotein B48 receptor // 16p11 // 55911 // ENST000004312	APOB48R	NM_018690	2.05637
2540157	NM_002539	ODC1 // ornithine decarboxylase 1 // 2p25 // 4953 // NR_028374 // SNORA80	ODC1	NM_002539	2.05234
3457523	NM_194358	RNF41 // ring finger protein 41 // 12q13.13 // 10193 // NM_005785 // RNF4	RNF41	NM_194358	2.05378
3807659	NM_003046	SLC7A2 // solute carrier family 7 (cationic amino acid transporter, y+ sys	SLC7A2	NM_003046	2.05348
2344542	NM_025065	RPPI // ribosome production factor 1 homolog (S. cerevisiae) // 1p22.3 // 1	RPPI	NM_025065	2.05235
3474372	NM_001080855	PXN // paxillin // 12q24.31 // 5829 // NM_002859 // PXN // paxillin // 1	PXN	NM_001080855	2.04765
2363618	NM_003019	GJA1 // gap junction protein, alpha 1 // 43kDa // 6q21-q23.2 // 2687 // NM_0	GJA1	NM_003019	2.04585
3342561	NM_182693	ANKRD4			

3240452	NM_012342 // BAMB1 // BML and activin membrane-bound inhibitor homolog (Xenopus laevis)	BAMB1	NM_012342	2.01268
2975680	NM_014739 // BCLAF1 // BCL2-associated transcription factor 1 // 6q22-q23 // 9774 // N	BCLAF1	NM_014739	2.00885
3929291	NM_021254 // C21orf59 / chromosome 21 open reading frame 59 // 21q22.1 // 56683 // NR	C21orf59	NM_021254	2.00824
3890333	NM_003222 // TFAP2C // transcription factor AP-2 gamma (activating enhancer binding protein	TFAP2C	NM_003222	2.00247
3645555	NM_016639 // TNFRSF12A / tumor necrosis factor receptor superfamily, member 12A // 16p	TNFRSF12A	NM_016639	2.00243
36451246	NM_173601 // GXYLT1 // glucosyl xylosyltransferase 1 // 12q12 // 283464 // NM_0010994	GXYLT1	NM_173601	2.00196
3973768	NM_198511 // LANCL3 // LanC lantibiotic synthetase component C-like 3 (bacterial) Xp	LANCL3	NM_198511	2.00151
3556993	NM_006970 // LBR // limb bud homeobox (Xenopus laevis) // 14q11.2 // 849622 // NM_013027	LBR	NM_006970	2.00044
3501219	NM_001846 // COL4A2 // collagen, type IV, alpha 2 // 13q34 // 1284 // ENST00000380467	COL4A2	NM_001846	2.00244
3403015	NM_001975 // ENO2 // enolase 2 (gamma, neuronal) // 12p13 // 2026 // ENST00000229277 /	ENO2	NM_001975	2.00454
2363679	---	---	---	2.00644
2779897	NM_005908 // MANBA // mannosidase, beta A, lysosomal // 4q22-q25 // 4126 // ENST0000002	MANBA	NM_005908	2.00793
3065601	NR_027768 // DPY19L2P2 // dpy-19-like 2 pseudogene 2 (C. elegans) // 7q22.1 // 349152 /	DPY19L2P2	NR_027768	2.00957
2565902	NM_025190 // ANKR0368 // ankyrin repeat domain 36B // 2q11.2 // 57730 // ENST000004387	ANKR0368	NM_025190	2.00981
2406428	NM_018207 // TRIM62 // tripartite motif-containing 62 // 1p35.1 // 55223 // ENST0000002	TRIM62	NM_018207	2.00991
3065244	NM_006880 // RCLM4 // RAS p21 protein activator 4 // 7q22 // 10156 // NM_001078977 //	RCLM4	NM_006880	2.01144
3592755	NM_153618 // SEMA6D // sema domain, transmembrane domain (TM), and cytoplasmic domain,	SEMA6D	NM_153618	2.01246
3385175	NM_007166 // PICALM // phosphatidylinositol binding clathrin assembly protein // 11q14	PICALM	NM_007166	2.01383
3113894	NM_014943 // ZHX2 // zinc fingers and homeoboxes 2 // 8q24.13 // 22882 // ENST000000314	ZHX2	NM_014943	2.01594
2373494	NM_005666 // CFRH2 // complement factor H-related 2 // 1q31.3 // 3080 // NM_002113 //	CFRH2	NM_005666	2.01971
2915357	NM_033411 // RWDD2A // RWD domain containing 2A // 6q14.2 // 112611 // ENST00000369724	RWDD2A	NM_033411	2.01987
2914693	NR_027651 // SH3BGR2 // SH3 domain binding glutamic acid-rich protein like 2 // 6q14.1 /	SH3BGR2	NR_027651	2.02015
3022444	NM_020875 // LRR // limb bud homeobox (Xenopus laevis) // 11q11.2 // 849622 // NM_013027 /	LRR	NM_020875	2.02043
3458400	NM_020142 // NDUFA4L2 // NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4 like 2 /	NDUFA4L2	NM_020142	2.02047
2328837	NM_032648 // FAM167B // family with sequence similarity 167, member B // 1p35.1 // 8473 /	FAM167B	NM_032648	2.02802
2645951	NM_003304 // TRPC1 // transient receptor potential cation channel, subfamily C, member	TRPC1	NM_003304	2.02854
3424442	NM_152588 // TMTC2 // transmembrane and tetratricopeptide repeat containing 2 // 12q21 /	TMTC2	NM_152588	2.03039
2996484	NM_013262 // MYLIP // myosin regulatory light chain interacting protein // 6p23-p22.3 /	MYLIP	NM_013262	2.03277
3214496	NM_004560 // ROR2 // receptor tyrosine kinase-like orphan receptor // 9q22 // 4920 //	ROR2	NM_004560	2.03593
3475973	NM_006931 // SLC2A3 // solute carrier family 2 (facilitated glucose transporter), member 3	SLC2A3	NM_006931	2.03681
3282974	NM_021738 // SVIL // supravillin // 10p11.2 // 6840 // NM_003174 // SVIL // supravilli	SVIL	NM_021738	2.03864
3140920	NM_020647 // JPH1 // junctionophilin 1 // 8q21 // 56704 // ENST00000342232 // JPH1 // jun	JPH1	NM_020647	2.04236
3773241	AL512709 // TBC1D16 // TBC1 domain family, member 16 // 17q25.3 // 125058	TBC1D16	AL512709	2.04839
3525679	NM_017664 // ANKRD10 // ankyrin repeat domain 10 // 13q34 // 55608 // ENST00000267339	ANKRD10	NM_017664	2.04945
3154171	NM_001135242 // NDRG1 // N-myc downstream regulated 1 // 8q24.3 // 10397 // NM_006096	NDRG1	NM_001135242	2.05049
3937891	NR_027051 // FLJ39582 // hypothetical CLN439931 // 22q11.21 // 439931 // NR_027052 //	FLJ39582	NR_027051	2.05066
3442854	NM_006931 // SLC2A3 // solute carrier family 2 (facilitated glucose transporter), member 3	SLC2A3	NM_006931	2.05489
3350596	NM_001408 // CELSR2 // cadherin, EGF-LAG repeats, cytoplasmic tail type receptor 2 (flamingo homolog	CELSR2	NM_001408	2.05703
3737274	NM_020914 // RNF213 // ring finger protein 213 // 17q25.3 // 57674 // ENST00000508628	RNF213	NM_020914	2.06117
3182984	NM_018376 // NIPSNAP3B // nipsnap homolog 3B (C. elegans) // 9q31.1 // 55335 // ENST000	NIPSNAP3B	NM_018376	2.06374
2006616	NM_153214 // FBLN7 // fibulin 7 // 2q13 // 129804 // NM_001128165 // FBLN7 // fibulin	FBLN7	NM_153214	2.07052
34151086	NM_005328 // HAS2 // hyaluronan synthase 2 // 8q24.12 // 3037 // ENST0000030924 // HA	HAS2	NM_005328	2.07948
3413604	NM_000725 // CACNB3 // calcium channel, voltage-dependent, beta 3 subunit // 12q13.1 //	CACNB3	NM_000725	2.08072
2947248	NM_001135215 // ZNF323 // zinc finger protein 323 // 6p21.31 // 6p23-p22.1 // 64288 //	ZNF323	NM_001135215	2.08957
3450244	NM_000898 // CALCA // calcitonin binding and calcium release receptor 2 (flamingo homolog	CALCA	NM_000898	2.09023
2738378	NM_001184690 // NPNT // nephronectin // 4q24 // 255743 // NM_001184691 // NPNT // neph	NPNT	NM_001184690	2.09098
2957409	NM_006055 // LANCL1 // LanC lantibiotic synthetase component C-like 1 (bacterial) // 2q	LANCL1	NM_006055	2.0926
3144934	NM_005261 // GEM // GTP binding protein overexpressed in skeletal muscle // 8q13-q21 //	GEM	NM_005261	2.094
2814154	NM_022968 // SERF1A // small EDRK-rich factor 1A (telomeric) // 5q13 // 8293 // NM_001	SERF1A	NM_022968	2.09686
3812074	NM_032160 // DSEL // dermatan sulfate epimerase-like // 18q22.1 // 92126 // ENST0000003	DSEL	NM_032160	2.10274
2705706	NM_003810 // TNFSF10 // tumor necrosis factor (ligand) superfamily, member 10 // 3q26 /	TNFSF10	NM_003810	2.10356
3394264	NM_006500 // RPL39 // ribosomal protein L39 // 22q11.2 // 6160 // NM_001080026	RPL39	NM_006500	2.11158
2706399	NR_027651 // FLJ39582 // hypothetical CLN439931 // 22q11.21 // 439931 // NR_027052 //	FLJ39582	NR_027651	2.11158
2881239	NM_002609 // PDGFRB // platelet-derived growth factor receptor, beta polypeptide // 5q3	PDGFRB	NM_002609	2.11754
3996598	AY168775 // NCRNA00204 // non-coding RNA 204 // Xq28 // 100132967	NCRNA00204	AY168775	2.12177
2714818	NM_175918 // CRIPAK // cysteine-rich PAK1 inhibitor // 4p16.3 // 285464 // ENST0000032	CRIPAK	NM_175918	2.12224
4045166	NM_005681 // TAF1A // TATA box binding protein (TBP)-associated factor, RNA polymerase	TAF1A	NM_005681	2.12291
2648776	NM_007288 // MME // membrane metallo-endopeptidase // 3q25.1-q25.2 // 4311 // NM_00090	MME	NM_007288	2.12417
3742418	NM_00107533 // DYSFIP1 // dyserlin interacting protein 1 // 17q25.3 // 116728 // ENS	DYSFIP1	NM_00107533	2.12467
3651428	NM_000289 // C2orf13 // chromosome 2 open reading frame 13 // 21q22.3 // 1277 // ENST000002536	C2orf13	NM_000289	2.12622
3767169	NM_199340 // LRRCC37A3 // leucine rich repeat containing 37, member A3 // 17q24.1 // 374	LRRCC37A3	NM_199340	2.1274
3086774	NM_020844 // C8orf79 // chromosome 8 open reading frame 79 // 8p22 // 57604 // ENST000	C8orf79	NM_020844	2.1311
3457696	NM_001127460 // PAN2 // PAN2 poly(A) specific ribonuclease subunit homolog (S. cerevisi	PAN2	NM_001127460	2.13211
3348608	NM_015191 // SIK2 // salt-inducible kinase 2 // 11q23.1 // 23235 // ENST00000304987 //	SIK2	NM_015191	2.13613
3948590	NM_015653 // RIBIC2 // RIB43A domain with coiled-coils 2 // 22q13.31 // 26150 // ENST00	RIBIC2	NM_015653	2.13804
2523491	NM_024744 // ALS2CR8 // amyotrophic lateral sclerosis 2 (juvenile) chromosome region, c	ALS2CR8	NM_024744	2.14679
3544283	NM_006897 // RPL31 // ribosomal protein L31 // 22q11.2 // 6160 // NM_001080026	RPL31	NM_006897	2.14833
3934162	AF426261 // C21orf84 // chromosome 21 open reading frame 84 // 21q22.3 // 114038	C21orf84	AF426261	2.15829
3127818	NM_002318 // LOXL2 // lysyl oxidase-like 2 // 8p21.3 // 4017 // U89942 // LOXL2 // lys	LOXL2	NM_002318	2.16112
2940299	NM_001008387 // REG3G // regenerating islet-derived 3 gamma // 2p12 // 130120 // NM_19	REG3G	NM_001008387	2.16126
2587790	NM_001033045 // GPR155 // G protein-coupled receptor 155 // 2q31.1 // 151556 // NM_152	GPR155	NM_001033045	2.16209
3932917	NM_182832 // PLAC4 // placenta-specific 4 // 21q22.2 // 191585 // AF269287 // PLAC4 //	PLAC4	NM_182832	2.16252
3687452	NM_031477 // YPEL3 // yppea-like 3 (Drosophila) // 16p11.2 // 83719 // NM_001145524 //	YPEL3	NM_031477	2.16469
3762129	NM_000389 // COL13 // collagen, type I, alpha 1 // 17q25.3 // 1277 // ENST000002536	COL13	NM_000389	2.16733
2789262	NM_001165032 // RNF182 // ring finger protein 182 // 6p23 // 221687 // ENST000002536	RNF182	NM_001165032	2.16843
2766492	BC008502 // C4orf34 // chromosome 4 open reading frame 34 // 4p14 // 201895 // ENST000	C4orf34	BC008502	2.17317
2814756	NM_005909 // MAP1B // microtubule-associated protein 1B // 5q13 // 4131 // ENST0000029	MAP1B	NM_005909	2.18289
3326938	---	---	---	2.18546
2700244	NM_000096 // CP // ceruloplasmin (ferroxidase) // 3q23-q25 // 1356 // ENST00000264613	CP	NM_000096	2.18815
2902633	NM_002441 // MSH5 // msh5 homolog 5 (E. coli) // 6p21.3 // 4439 // NM_025259 // MSH5 /	MSH5	NM_002441	2.20352
2599153	NM_022648 // TNS1 // tensin 1 // 2q35-q36 // 7145 // ENST0000017887 // TNS1 // tensin	TNS1	NM_022648	2.20396
2806536	BC022525 // C2orf13 // chromosome 2 open reading frame 13 // 21q22.3 // 1277 // ENST000002536	C2orf13	BC022525	2.20683
3336402	NM_006328 // RBM14 // RNA binding motif 14 // 11q13.2 // 10432 // BC007641 //	RBM14	NM_006328	2.20688
2735459	NM_014606 // HERC3 // hect domain and RLD 3 // 4q21 // 8916 // ENST00000402738 // HERC	HERC3	NM_014606	2.20742
2610417	NR_026829 // C3orf42 // chromosome 3 open reading frame 42 // 3p25.3 // 84657 // AF280	C3orf42	NR_026829	2.21868
3318731	NM_144666 // DNHD1 // dynein heavy chain domain 1 // 11p15.4 // 144132 // NM_173589 //	DNHD1	NM_144666	2.22343
3718762	NM_033315 // RASL10B // RAS-like, family 10, member B // 17q12 // 91608 // ENST000000206	RASL10B	NM_033315	2.22877
3753860	NM_002985 // CCL5 // chemokine (C-C motif) ligand 5 // 17q11.2-q12 // 6352 // ENST00000	CCL5	NM_002985	2.23428
2318658	NM_016837 // PDE4B // phosphodiesterase 4B // 12p13.3 // 10207 // ENST0000031619	PDE4B	NM_016837	2.23618
3881045	NR_026713 // FAM182A // family with sequence similarity 182, member A // 20p11.1 // 284	FAM182A	NR_026713	2.23684
3497881	NM_005766 // FARP1 // FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyt	FARP1	NM_005766	2.24123
3238761	NM_012228 // MSRB2 // methionine sulfoxide reductase B2 // 10p12 // 22921 // ENST00000	MSRB2	NM_012228	2.24566
2551651	NM_080653 // ATP6V1E2 // ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E2 // 2p2	ATP6V1E2	NM_080653	2.24921
2846467	NM_022090 // C5orf54 // chromosome 5 open reading frame 54 // 5q33.3 // 63920 // ENST0	C5orf54	NM_022090	2.2501
3086809	NM_001099677 // C8orf79 // chromosome 8 open reading frame 79 // 8p22 // 57604 // NM_0	C8orf79	NM_001099677	2.25032
2476510	NM_206943 // LTBP1 // latent transforming growth factor beta binding protein 1 // 2p22-	LTBP1	NM_206943	2.25232
3449910	NM_00113402 // AMN1 // antagonist of mitotic exit network 1 homolog (S. cerevisiae) //	AMN1	NM_00113402	2.25291
3801943	NM_015461 // ZNF521 // zinc finger protein 521 // 18q11.2 // 25925 // ENST00000361524	ZNF521	NM_015461	2.26392
3309195	NM_015065 // EXPH5 // exophilin 5 // 11q22.3 // 23086 // ENST00000265843 // EXPH5 // e	EXPH5	NM_015065	2.27971
2786732	NM_018717 // MAML3 // mastermind-like 3 (Drosophila) // 4q28 // 55534 // ENST0000040393	MAML3	NM_018717	2.28094
3070183	NM_005763 // AASS // aminooxidate-semialdehyde synthase // 7q31.3 // 10157 // ENST00000	AASS	NM_005763	2.28352
2705753	NM_012464 // TLL1 // tollid-like 1 // 4q32-q33 // 7092 // ENST00000061240 // TLL1 //	TLL1	NM_012464	2.29501
3830412	NM_005303 // FFR1 // free fatty acid receptor 1 // 19q13.1 // 2864 // ENST00000246553	FFR1	NM_005303	2.29805
2498536	NM_001099693 // RPL31 // ribosomal protein L31 // 22q11.2 // 6160 // NM_001080026	RPL31	NM_001099693	2.29983
3521174	NM_005845 // ABCC4 // ATP-binding cassette, sub-family C (CFTR/MRP), member 4 // 13q32	ABCC4	NM_005845	2.30355
2870889	NM_001142481 // C5orf13 // chromosome 5 open reading frame 13 // 5q22.1 // 9315 // NM	C5orf13	NM_001142481	2.31548
3062082	NM_002612 // PDK4 // pyruvate dehydrogenase kinase, isozyme 4 // 7q21.3 // 5166 // ENS	PDK4	NM_002612	2.31728
2902736	NM_001040437 // C6orf48 // chromosome 6 open reading frame 48 // 6p21.3 // 50854 // NM	C6orf48	NM_001040437	2.32189
3721452	NM_021939 // FKBP10 // FK506 binding protein 10, 65 kDa // 17q21.2 // 60681 // ENST000	FKBP10	NM_021939	2.32542
3927480	NM_007038 // ADAMTSS // ADAM metalloproteinase with thrombospondin type 1 motif, 5 // 21	ADAMTSS	NM_007038	2.33002
3867264	NM_001217 // CA11 // carbonic anhydrase XI // 19q13.3 // 770 // ENST00000084798 // CA1	CA11	NM_001217	2.33166
2680571	---	---	---	2.33657
3726406	NM_025149 // ACSF2 // acyl-CoA synthetase family member 2 // 17q21.33 // 80221 // ENST	ACSF2	NM_025149	2.33995
2796995	NM_021069 // SORBS2 // sorbin and SH3 domain containing 2 // 4q35.1 // 8470 // NM_0011	SORBS2	NM_021069	2.3529
3193725	NM_014279 // OLFM1 // olfactomedin 1 // 9q34.3 // 10439 // NM_006334 // OLFM1 // olfac	OLFM1	NM_014279	2.3649
3090053	AF495725 // SLC25A37 // solute carrier family 25, member 37 // 8p21.2 // 51312	SLC25A37	AF495725	2.37074
2770469	NM_001553 // IGFBP7 // insulin-like growth factor binding protein 7 // 4q12 // 3490 //	IGFBP7	NM_001553	2.37655
2689516	NM_001164343 // ZBTB20 // zinc finger and BTB domain containing			

3557268	NR_026862	PPP1R3E // protein phosphatase 1, regulatory (inhibitor) subunit 3E // 14q	PPP1R3E	NR_026862	-2.45886
3027943	NM_016943	TAS2R3 // taste receptor, type 2, member 3 // Tq3.1-q32 // 50831 // ENST	TAS2R3	NM_016943	-2.46154
3471988	NM_007224	NXPH4 // neuroxinophilin 4 // 12q13.3 // 11247 // ENST00000349394 // NXPH4	NXPH4	NM_007224	-2.46403
2746591	NM_001957	EDNRA // endothelin receptor type A // q31.22 // 1909 // NM_001166055 //	EDNRA	NM_001957	-2.46712
3542275	NM_001034852	SMOC1 // SPARC related modulator calcium binding 1 // 14q24.2 // 64093 //	SMOC1	NM_001034852	-2.46738
2475628	NM_001127401	YPELE // yippe-like 5 (Drosophila) // 2p23.1 // 51646 // NM_001127400 //	YPELE	NM_001127401	-2.46995
3381925	NM_173582	PGM2L1 // phosphoglucomutase 2-like 1 // 11q13.4 // 283209 // ENST00000029	PGM2L1	NM_173582	-2.47614
2891762					-2.48847
2368180	NM_005684	GPR52 // G-protein-coupled receptor 52 // 1q24 // 9293 // ENST00000367685	GPR52	NM_005684	-2.50581
2996563	NM_133468	BMPER // BMP binding endothelial regulator // 7p14.3 // 168667 // ENST000	BMPER	NM_133468	-2.52277
3091475	NM_016240	SCARA3 // scavenger receptor class A, member 3 // 8p21 // 51535 // NM_182	SCARA3	NM_016240	-2.52506
2706791	NM_152240	ZMAT3 // zinc finger, matrix-type 3 // 3q26.32 // 64393 // NM_022470 // Z	ZMAT3	NM_152240	-2.54171
3768627	NM_007168	ABCAB // ATP-binding cassette, sub-family A (ABC1), member 8 // 17q24 // 1	ABCAB	NM_007168	-2.55826
3150844	NM_021021	SNTRB1 // syntrophin, beta 1 (dystrophin-associated protein A1, 59kDa, basi	SNTRB1	NM_021021	-2.55831
2545478	NM_006569	CTRF1 // cell growth regulator with EF-hand domain 1 // 2p23.3 // 10689 //	CTRF1	NM_006569	-2.56415
2590582	NM_005019	PDE1A // phosphodiesterase 1A, calmodulin-dependent 1 // 2q11.2 // 5136 //	PDE1A	NM_005019	-2.56891
2674047	NM_002292	LAMB2 // laminin, beta 2 (laminin 5) // 3p21 // 3913 // ENST00000418109 //	LAMB2	NM_002292	-2.58451
4026399	NM_004988	MAGEA1 // melanoma antigen family A, 1 (directs expression of antigen MZ-	MAGEA1	NM_004988	-2.59436
2611848	NM_030043	SLC6A6 // solute carrier family 6 (neurotransmitter transporter, taurine),	SLC6A6	NM_030043	-2.59728
3233686	BC008131	LOC142937 // hypothetical protein BC008131 // 10p15.1 // 142937	LOC142937	BC008131	-2.60424
3458907	NM_00113203	NACA // nascent polypeptide-associated complex alpha subunit // 12q23-q	NACA	NM_00113203	-2.62828
2373406	NM_021023	CFHR3 // complement factor H-related 3 // 1q32 // 10878 // NM_002113 // C	CFHR3	NM_021023	-2.62947
3201343	NM_026056	MR3A1 // 9p21 // 407035 // NM_026056 // LOC54920 // hyp	MR3A1	NM_026056	-2.64531
3763270	NM_012329	MMD // monocyte to macrophage differentiation-associated // 17q // 23531 //	MMD	NM_012329	-2.64574
3743551	NM_001307	CLDN7 // claudin 7 // 17p13 // 1366 // NM_001185023 // CLDN7 // claudin 7	CLDN7	NM_001307	-2.65228
2608469	NM_001168272	ITPR1 // inositol 1,4,5-trisphosphate receptor, type 1 // 3p26.1 // 3708	ITPR1	NM_001168272	-2.65299
3689981	NM_182493	MYLK3 // myosin light chain kinase 3 // 16q11.2 // 91807 // ENST000003948	MYLK3	NM_182493	-2.66338
2685304	NM_000313	PROS1 // protein S (alpha) // 3q11.2 // 5627 // ENST00000394236 // PROS1	PROS1	NM_000313	-2.67484
3732793	NM_014980	ARSG // arylsulfatase G // 17q24.2 // 22901 // ENST0000452479 // ARSG //	ARSG	NM_014980	-2.68042
3735782	NM_173676	HKX // hmkh homeobox // 10p12 // 283078 // ENST00000419761 // HKX //	HKX	NM_173676	-2.68591
3445820	NM_032918	RERG // RAS-like, estrogen-regulated, growth inhibitor // 12p12.3 // 85004	RERG	NM_032918	-2.68781
2665199	NM_001195470	SATB1 // SATB homeobox 1 // 3p23 // 6304 // NM_002971 // SATB1 // SATB	SATB1	NM_001195470	-2.70131
3274758	NM_005845	AKR1C2 // aldo-keto reductase family 1, member C2 (dihydrodiol dehydrogena	AKR1C2	NM_005845	-2.71797
3842141	NM_001136134	RPL28 // ribosomal protein L28 // 19q13.4 // 6158 // NM_000991 // RPL2	RPL28	NM_001136134	-2.73288
2514122	NM_203463	LASS6 // LAG1 homolog, ceramide synthase 6 // 2q24.3 // 253782 // ENST000	LASS6	NM_203463	-2.74328
2740507	NM_001128174	UGT8 // UDP glycosyltransferase 8 // 4q26 // 7388 // NM_003360 // UGT8	UGT8	NM_001128174	-2.76268
3376344	NM_021023	CFHR3 // complement factor H-related 3 // 1q32 // 10878 // NM_002113 // C	CFHR3	NM_021023	-2.76947
3662808	NM_001145772	GPR56 // G-protein-coupled receptor 56 // 16p13 // 3289 // NM_200154 //	GPR56	NM_001145772	-2.78095
3137673	NM_003558	PIPSK1B // phosphatidylinositol-4-phosphate 5-kinase, type 1, beta // 9q13	PIPSK1B	NM_003558	-2.80971
2792800	NM_017631	DDX60 // DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 // 4q32.3 // 55601 //	DDX60	NM_017631	-2.83043
3787187	NM_031303	KATNAL2 // katanin p60 subunit A-like 2 // 18q21.1 // 83473 // ENST000002	KATNAL2	NM_031303	-2.83703
3285200	NM_002231	CD82 // CD82 molecule // 11p11.2 // 3732 // NM_001024844 // CD82 // CD82	CD82	NM_002231	-2.84303
2651165	NM_001122752	SERPINI1 // serpin peptidase inhibitor, clade I (neuroserpin), member 1	SERPINI1	NM_001122752	-2.84323
2587874	NM_003387	WIPF1 // WAS/WASL interacting protein family, member 1 // 2q31.1 // 7456 //	WIPF1	NM_003387	-2.84636
3450899	NM_002885	CFHR3 // complement factor H-related 3 // 1q32 // 10878 // NM_002113 // C	CFHR3	NM_002885	-2.85061
3445028	NM_006143	GPR19 // G-protein-coupled receptor 19 // 12p12.3 // 2842 // ENST000003032	GPR19	NM_006143	-2.86706
2899102	NM_003531	HIST1H3C // histone cluster 1, H3c // 6p21.3 // 8352 // BC127610 // HIST1	HIST1H3C	NM_003531	-2.86934
3911217	NM_020182	PMEPA1 // prostate transmembrane protein, androgen induced 1 // 20q13.31-q	PMEPA1	NM_020182	-2.87324
3405515	NM_030817	APOLD1 // apolipoprotein L domain containing 1 // 12p13.1 // 81575 // NM_	APOLD1	NM_030817	-2.88556
3662201	NM_005951	MT1H // metallothionein 1H // 16p13 // 4496 // NM_005949 // MT1F // metal	MT1H	NM_005951	-2.9096
3232979	NM_001353	AKR1C1 // aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogena	AKR1C1	NM_001353	-2.93905
3128731	NM_007257	PNMA2 // paraneoplastic antigen M2-2 // 10q87 // ENST00000494213	PNMA2	NM_007257	-2.94423
3845785	NR_036529	LOC100128252 // hypothetical protein LOC100128252 // 10q13.4 // 100128252 // NR	LOC100128252	NR_036529	-2.95071
3721010	NM_001552	IGFBP4 // insulin-like growth factor binding protein 4 // 17q12-q21.1 // 3	IGFBP4	NM_001552	-2.9538
3617719	NM_005159	ACTC1 // actin, alpha, cardiac muscle 1 // 15q11-q14 // 70 // NM0000029	ACTC1	NM_005159	-2.98026
2500722	NM_198581	ZC3H6 // zinc finger CCH-type containing 6 // 2q13 // 376940 // ENST00000	ZC3H6	NM_198581	-2.99486
2925953	NM_006208	ENPP1 // ectonucleotide pyrophosphatase/phosphodiesterase 1 // 6q22-q23 //	ENPP1	NM_006208	-3.00951
2887164	NM_001017995	SH3PX2B // SH3 and PX domain 2 // 5q35.1 // 285590 // ENST000003116	SH3PX2B	NM_001017995	-3.01214
3484426	NM_182787	SLC6A15 // solute carrier family 6 (neutral amino acid transporter), memb	SLC6A15	NM_182787	-3.01452
3297100	NM_003625	ACTA1 // actin, class IA, member 1 // 6q22 // 4121 // ENST000003110	ACTA1	NM_003625	-3.12141
3617458	NR_027409	GOLGA8A // golgin A8 family, member A // 15q11.2 // 23015 // NR_027410 //	GOLGA8A	NR_027409	-3.01624
2655113	NM_017644	KLHL24 // kelch-like 24 (Drosophila) // 3q27.1 // 54800 // ENST0000045465	KLHL24	NM_017644	-3.0304
2477203	NM_053276	VIT // vitron // 2p22.2 // 5212 // NM_001177969 // VIT // vitron // 2p22.	VIT	NM_053276	-3.05413
3671695	NM_021197	WFDC1 // WAP four-disulfide core domain 1 // 16q24.3 // 58189 // ENST00000	WFDC1	NM_021197	-3.09281
2397988	NM_014424	HSPB7 // heat shock 27kDa protein family, member 7 (cardiovascular) // 1p3	HSPB7	NM_014424	-3.0944
3082373	NM_003382	WIPR2 // vasoreactive intestinal peptide receptor 2 // 7q36.3 // 4173 // EN	WIPR2	NM_003382	-3.09919
3403168	NM_004460	FAP // fibroblast activation protein, s subcomponent 1 // 12p13.1 // 715 // EN	FAP	NM_004460	-3.10823
2584134	NM_004460	FAP // fibroblast activation protein, s subcomponent 1 // 12p13.1 // 715 // EN	FAP	NM_004460	-3.15596
3096575	NM_152419	HGSNAT // heparan-alpha-glucosaminidase N-acetyltransferase // 8p11.3 // 138	HGSNAT	NM_152419	-3.1696
3442475	NM_001733	C1R // complement component 1, r subcomponent // 12p13 // 715 // ENST00000	C1R	NM_001733	-3.17763
2664209	NM_004844	SH3BP5 // SH3-domain binding protein 5 (BTK-associated) // 3p24.3 // 9467	SH3BP5	NM_004844	-3.18627
2532314	NM_001631	ALPI // alkaline phosphatase, intestinal // 2q37.1 // 248 // NM_001632 //	ALPI	NM_001631	-3.21643
3748400	NM_004505	USP6 // ubiquitin specific peptidase 6 (Tre-2 oncogene) // 17p13 // 9098 //	USP6	NM_004505	-3.21911
3444503	NM_178985	TAS2R3 // taste receptor, type 2, member 3 // 12q13.2 // 259295 // ENST	TAS2R3	NM_178985	-3.23453
3436758	NM_001114	ADAR // adenosine deaminase, RNA-specific // 1q21.1-q21.2 // 103 // NM_01	ADAR	NM_001114	-3.22629
3168066	NM_001216	CA9 // carbonic anhydrase IX // 9p12 // 768 // ENST0000037857 // CA9 //	CA9	NM_001216	-3.27045
3281703	NM_020200	PRTFDC1 // phosphoserine transferase domain containing 1 // 10p12.1 // 56	PRTFDC1	NM_020200	-3.27837
2481379	NM_172311	STON1-GTF2A1L // STON1-GTF2A1L readthrough // 2p16.3 // 286749 // NM_0011	STON1-GTF2A1L	NM_172311	-3.28691
2902725	NM_005346	HSPA1B // heat shock 70kDa protein 1B // 6p21.3 // 3304 // NM_005345 // H	HSPA1B	NM_005346	-3.31362
3430086	NM_152772	TC1P1L2 // t-complex 11 (mouse)-like 2 // 12q23.3 // 255394 // ENST0000002	TC1P1L2	NM_152772	-3.38133
2420681	NM_018296	MCOLN3 // mucopolysaccharidosis 3 // 12p23.3 // 55283 // ENST00000302814 // MCOLN3	MCOLN3	NM_018296	-3.38487
3460953	NM_014949	CCDC148 // coiled-coil domain containing 148 // 17p11.2 // 57878 // NM_0	CCDC148	NM_014949	-3.37821
3748499	NR_036647	CCDC148B // coiled-coil domain containing 148B // 17p11.2 // 284047 // NR	CCDC148B	NR_036647	-3.41002
3707383	NM_001976	ENO3 // enolase 3 (beta, muscle) // 17pter-p11 // 2027 // NM_053013 // EN	ENO3	NM_001976	-3.43243
2598261	NM_212482	FN1 // fibronectin 1 // 2q34 // 2335 // NM_002026 // FN1 // fibronectin 1	FN1	NM_212482	-3.4879
2578028	NM_001008540	CXCR4 // chemokine (C-X-C motif) receptor 4 // 2q21 // 7852 // NM_000034	CXCR4	NM_001008540	-3.52788
3088486	NM_000237	LPL // lipoprotein lipase // 8p22 // 4023 // ENST00000311322 // LPL // li	LPL	NM_000237	-3.54174
3417842	NM_002332	LRP1 // low density lipoprotein receptor-related protein 1 // 12q13-q14 //	LRP1	NM_002332	-3.5832
3318174	NM_018474	SLC6A1 // solute carrier family 6 (neutral amino acid transporter), memb	SLC6A1	NM_018474	-3.59653
3059033	NM_006933	SLC5A5 // sodium/solute carrier family 5 (sodium/myo-inositol cotransporter), mem	SLC5A5	NM_006933	-3.67988
3610958	NM_000875	IGF1R // insulin-like growth factor 1 receptor // 15q26.3 // 3480 // ENST	IGF1R	NM_000875	-3.72557
2875685	NM_015082	FSTL4 // follistatin-like 4 // 5q31.1 // 23105 // ENST00000265342 // FSTL	FSTL4	NM_015082	-3.75234
3444476	NM_176889	TAS2R20 // taste receptor, type 2, member 20 // 12p13.2 // 259295 // ENST	TAS2R20	NM_176889	-3.74109
3461795	NM_001109754	PTPRB // protein tyrosine phosphatase, receptor type, B // 12q15-q21 //	PTPRB	NM_001109754	-3.75575
3899419	NM_173485	TSHT2 // teashirt zinc finger homeobox 2 // 20q13.2 // 128553 // NM_00119	TSHT2	NM_173485	-3.76362
3875642	NM_182734	PLCB1 // phospholipase C, beta 1 (phosphoinositide-specific) // 20p12 //	PLCB1	NM_182734	-3.83884
3297956	NM_016944	TAS2R2 // taste receptor, type 2, member 4 // 7q31.3-q32 // 50832 // ENST	TAS2R2	NM_016944	-3.84262
3703022	NM_006039	MRC2 // mannose receptor, C type 2 // 17q23.2 // 9902 // ENST00000303375	MRC2	NM_006039	-3.8749
2359439	NM_178352	LCE1D // late cornified envelope 1D // 12q13.3 // 353134 // NM_178351 // L	LCE1D	NM_178352	-3.93557
3496409	NM_004466	GPC5 // glypican 5 // 13q32 // 2262 // ENST00000377067 // GPC5 // glypica	GPC5	NM_004466	-4.03285
3414739	NM_014033	METTL7A // methyltransferase like 7A // 12q13.12 // 25840 // ENST00000332	METTL7A	NM_014033	-4.05831
2511045	NM_052917	GALNT13 // UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglactos	GALNT13	NM_052917	-4.0695
3822976	NM_012114	CASP14 // caspase 14, apoptosis-related cysteine peptidase // 19p13.1 // 2	CASP14	NM_012114	-4.07814
2371547	NM_030806	C1orf21 // chromosome 1 open reading frame 21 // 1q25 // 81563 // ENST000	C1orf21	NM_030806	-4.08065
3441885	NM_001038	SCNN1A // sodium channel, nonvoltage-gated 1 alpha // 12p13 // 6337 // NM	SCNN1A	NM_001038	-4.09996
2482683	NR_002229	RPL23AP32 // ribosomal protein L23a pseudogene 32 // 2p16.2 // 56969 // A	RPL23AP32	NR_002229	-4.11417
3396770	NM_016952	CDON // Cdon homolog (mouse) // 11q23-q24 // 50937 // ENST00000263577 //	CDON	NM_016952	-4.12079
3443348	NM_000014	A2M // alpha-2-macroglobulin // 12p13.31 // 2 // ENST00000318602 // A2M //	A2M	NM_000014	-4.19887
2586038	NM_004525	LRP2 // low density lipoprotein receptor-related protein 2 // 2q24-q31 //	LRP2	NM_004525	-4.38112
2872848	NM_002317	LOX // lysyl oxidase // 5q23.2 // 4015 // NM_001178102 // LOX // lysyl ox	LOX	NM_002317	-4.52203
2395197	NM_185471	LRG1 // leucine-rich growth factor domain 1 // 11p15.4 // 283398 // ENST00000292933 //	LRG1	NM_185471	-4.70945

Table S2

m Col1A	F	CTGACTGGAAGAGCGGAGAGTAC	h P110	F	GGCAGCCTCCGGGTG
	R	GAGGCACAGACGGCTGAGTAG		R	CTGTCTGTGCTCATAGCCTTGA
m α SMA	F	CTACTGCCGAGCGTGAGATTG	h P150	F	CGGGCAATGCCTCGC
	R	GTCAGGCAGTTCGTAGCTCTTCT		R	AATGGATGGGTGTAGTATCCGC
m HPRT	F	AGCTACTGTAATGATCAGTCAACG	h IL-6	F	CAGCCCTGAGAAAGGAGACATG
	R	AGAGGTCCTTTTCACCAGCA		R	TTTTCTGCCAGTGCCTCTTTG
m OAS2	F	AAGTGCCAGTAATGCAGACCC	h IL-8	F	CTGGCCGTGGCTCTCTTG
	R	CAGAGAGGACTGAACCAGGC		R	TCCTTGGCAAAACTGCACCT GGTCCTTTTCACCAGCAAGCT
m IRF7	F	TGCTTTCTAGTGATGCCGGG	h HPRT	F	TGACACTGGCAAAACAATGCA
	R	CAAGGCTGCGCTCAGGA		R	
m IFIT1	F	CAGCAACCATGGGAGAGAATG			
	R	GAGGTTGTGCATCCCCAATG			
mRSAD2	F	TGCCTGAATCTAACCAGAAGATGA			
	R	ATACTTTCCGCCACGCTTCA			
m Eif2ak2	F	AAACTTTGGCCACTGGGAGG			
	R	ATGGCTACTCCGTGCATCTG			
m CCL5	F	CTGCTGCTTTGCCTACCTCT			
	R	CGAGTGACAAACACGACTGC			
m TNF	F	TAGCCCACGTCTAGCAAAC			
	R	ACAAGGTACAACCCATCGGC			