Supplementary Table E1. Subject characteristics.

Patient	Sex	Age	% Epithelial cells	Asthma control (NHLBI/EPR3)	FEV1 (%predicted)	FEV1/FVC
a1	M	15y 11m	97.3	WC	119	86
a2	M	14y 3m	94.9	WC	112	87
a3	F	6y 8m	93.9	WC	92	100
a4	F	13y	73.0	WC	86	83
a5	F	9y 4m	87.6	WC	99	92
a6	F	11y 3m	81.6	WC	89	86
a7	F	9y 7m	72.5	WC	86	91
A1	M	9y	91.9	NWC	76	78
A2	F	8y 9m	89.6	VPC	67	73
A3	M	9y 9m	90.2	NWC	91	78
A4	M	9y 7m	85.8	VPC	77	72
A5	F	8y 11m	74.1	NWC	78	80
A6	M	8y 1m	87.2	NWC	80	78
R1	F	8y 7m	80.5		108	92
R2	M	7y	76.2		114	94
R3	M	7y 5m	72.6		103	87
R4	M	14y 5m	96.8		103	84
R5	F	12y 6m	88.2		79	82
R6	M	13y 10m	93.4		95	85
R7	F	9y 3m	89.7		103	90
R8	F	10y 11m	87.4		83	97
R9	M	13y 7m	97.6		100	87
R10	F	11y 8m	94.8		97	89
R11	F	8y 8m	88.2		96	95
R12	M	16y 1m	72.7		106	100
R13	F	13y 1m	96.0		94	93
R14	M	10y 1m	83.0		105	90
C1	M	6y 4m	91.1			
C2	F	14y 4m	91.3			
C3	M	14y 1m	98.1			
C4	M	7y 9m	84.6			
C5	M	14y 4m	83.1			
C6	M	12y 1m	96.1			
C7	M	11y 10m	84.7			
C8	F	14y	90.4			
C9	F	13y 11m	75.2			
C10	M	10y 2m	91.5			
C11	F	7y 6m	70.2			

Supplementary Table E2. Sequences of primers and probes designed with Primer Express®

Gene symbol	Sequence of primers and probes	
CST1	Forward	5'-GGT GGC ATC TAT AAC GCA GACC-3'
	Reverse	5'-TGT TGC CTG GCT CTT AGT ACC C-3'
POSTN	Forward	5'-TCA TTG AAG GTG GTG ATG GTC A-3'
	Reverse	5'-TTT CAC TGA GAA CGA CCT TCC C-3'
NTS	Forward	5'-GAG GAG CTT GTT GCA AGA AGG A-3'
	Reverse	5'-GCC CTG CTG TGA CAG ATT TTG T-3'
CD44	Forward	5'-TTG CAT TGC AGT CAA CAG TCG-3'
	Reverse	5'-CGT TGA GTC CAC TTG GCT TTC T-3'
ALOX15	Forward	5'-TTG ATG GCT GAG GTC ATT GTT G-3'
	Reverse	5'-GCC CGG ACG TTA ATT TCC A-3'
GSN	Forward	5'-AGC CTT GAC TTC TGC TAA GCG G-3'
	Reverse	5'-ATC ATC ATC CCA GCC AAG GAA C-3'
CXCL10	Forward	5'-CCA GAA TCG AAG GCC ATC AA-3'
	Reverse	5'-GAA GCA CTG CAT CGA TTT TGC-3'
MX2	Forward	5'-CGA GAG AAT GGT GAC TCC TTG C-3'
	Reverse	5'-TTG GTA GCG GTC TCA CTC TGC T-3'
IFIT2	Forward	5'-TCA CGG TAT GCT TGG AAC GAT T-3'
	Reverse	5'-ACA GGC AAA CAT TTT CCA ACC C-3'
DUOX2	Forward	5'-GTC CCT GCT TGT GAC AAG TGT G-3'
	Reverse	5'-ACC AAA GCA ACG CAT CGA TT-3'
GSDML	Forward	5'-CTG AAA AGC GAC CGG CAA TA-3'
	Reverse	5'-TCG ATA GCT CAG GAC CCG ATT-3'
ST8SIA4	Forward	5'-AGA GCA TTT GGA GGC TTT CGA-3'
	Reverse	5'-CAC GTG CTT CTC TCC TCC TTT G-3'
MX1	Forward	5'-TTT TCA GCC CTC AGA ATC GCT-3'
	Reverse	5'-CAC GGC ACT CAT GCT CCT AAA-3'
GAPD	Forward	5'-ACC ACA CTG AAT CTC CCC TCC T-3'
	Reverse	5'-ATG GTA CAT GAC AAG GTG CGG-3'
RPL13A	Forward	5'-GTC TCA AGG TGT TTG ACG GCA-3'
	Reverse	5'-GCC CCA GAT AGG CAA ACT TTC T-3'

Supplementary Table E3. Functional annotation clustering of the 169 genes regulated in allergic patients compared with healthy subjects.

Category	Term	Count	Pop Hits	p-value	Gene symbol
BP	**nitrogen compound metabolic process**	13	496	2.66E-04	**AMD1, CAV1, GNE, KITLG, MAOA, SHMT2, SLC6A14, SLC7A1, SMOX, TGFB2** **ASL, HGD, MTR**
BP	**amino acid and derivative metabolic process**	11	376	4.23E-04	**AMD1, KITLG, MAOA, SHMT2, SLC6A14, SLC7A1, SMOX, TGFB2** **ASL, HGD, MTR**
MF	**racemase and epimerase activity, acting on carbohydrates and derivatives**	3	9	2.12E-03	**DSE, GALE, GNE**
BP	**glycoprotein metabolic process**	7	164	1.27E-03	**BACE2, GALNT7, ST3GAL4, ST6GAL1, ST6GALNAC4** **B3GALT2, DHCR24**
BP	**metabolic process**	83	9181	2.01E-03	**8161632, 7937612, AACS, AADACL1, ADAM9, ALOX15, AMD1, ARNTL2, ATP8B1, BACE2, CA2, CAV1, CD55, CDC2L6, CLC, CLTB, CPA3, CREB3L4, CTSC, CYP2E1, DHCR24, DPP4, ELOVL5, ENOX1, F13A1, FKBP2, FN1, GALE, GALNT4, GALNT7, GNE, HK2, ILK, IVNS1ABP, KITLG, KLF4, LDHA, LTB4DH, MAOA, MARCH3, NEDD4, NRIP3, NTRK2, PCSK6, PDIA5, PTGS1, PTPRH, SAMD4A, SEC11C, SERPINB4, SHMT2, SLC6A14, SLC7A1, SLK, SMOX, SMURF2, SPDEF, ST3GAL4, ST6GAL1, ST6GALNAC4, TGFB2, TIMP1, TRPM6, UBE2Q2, VAT1, VDR, XBP1** **ASL, B3GALT2, BRD8, C2, GCN5L2, HGD, HLF, MDFIC, MTR, NUDT4P1, PSPC1, QTRT1, SNORA67, TOP3B, TOX**
BP	**innate immune response**	5	103	6.81E-03	**CD55, IL1R1, IL1RL1** **C2, CRTAM**
MF	**endopeptidase inhibitor activity**	6	166	9.94E-03	**CST1, FETUB, SERPINB2, SERPINB4, SLPI, TIMP1**
CC	**membrane**	72	7262	2.15E-02	**AADACL1, ADAM9, ALOX15, ATP8B1, BACE2, CAV1, CD200R1, CD274, CD44, CD55, CDH26, CLTB, CREB3L4, CYP2E1, DISP1, DPP4, DSE, EDEM3, ELOVL5, ENOX1, FKBP2, GALNT4, GALNT7, HK2, IL1R1, IL1RL1, ILK, ITLN1, KITLG, LOXL4, LRRC8A, LRRC8D, MAOA, MARCH3, MRC1, MRC1L1, NHEDC2, NTRK2, PCSK6, PHLDB2, PLEKHA1, PTGS1, PTPRH, RAB22A, RABAC1, RAP2C, RNF185, SEC11C, SERINC5, SHMT2, SLC16A9, SLC6A14, SLC7A1, SSFA2, ST3GAL4, ST6GAL1, ST6GALNAC4, TMEM16A, TMEM45A, TMEM71, TRPM6, VAT1, ZDHHC16** **ABCB6, B3GALT2, CDH12, CRTAM, DHCR24, ERMAP, KIAA0090, SFXN2, SLC2A9, TMEM45B**
BP	**proteolysis**	13	806	1.44E-02	**ADAM9, BACE2, CD55, CPA3, CTSC, DPP4, NRIP3, PCSK6, SEC11C, SERPINB4, SMURF2, TIMP1** **C2**
BP	**immune response**	13	938	4.06E-02	**CCL26, CD274, CD55CTSC, DPP4, IL1R1, IL1RL1, SERPINB4, ST6GAL1, TGFB2, XBP1** **C2, CRTAM**
BP	**monocarboxylic acid metabolic process**	6	244	3.31E-02	**ALOX15, ATP8B1, ELOVL5, LTB4DH, PTGS1** **MTR**

Supplementary Table E4. Literature analysis of former microarray studies.

				Asthma				Rhinitis
				bronchial sample				nasal sample
Probe Set ID	mRNA Accession	Symbol	log ratio asthma *versus* control	Kicic et al., 2010	Woodruff et al., 2007	Lilly et al., 2005	Laprise et al., 2004	Benson et al., 2005
8011680	NM_001140	ALOX15	0.7				X	X
8147132	NM_000067	CA2	1.26	X				
8133876	NM_001001547	CD36	0.86					X
7939341	NM_000610	CD44	0.92	X				
8083260	NM_001870	CPA3	2.51		X		X	
8065412	NM_001898	CST1	7.15					X
8065416	NM_001322	CST2	1.87					X
7984001	NM_004751	GCNT3	1.39	X				
7938777	NM_005566	LDHA	0.68	X		X		
7971077	NM_006475	POSTN	3.56	X	X		X	
8021635	NM_002575	SERPINB2	1.64		X	X	X	
8023688	NM_002974	SERPINB4	1.15			X	X	
7970810	NM_003045	SLC7A1	0.61			X		
8109001	NM_006846	SPINK5	1.09					X
8070567	NM_003226	TFF3	1.26	X				
7998434	NM_003294	TPSAB1	0.96		X		X	X

Supplementary Table E5. 46 genes differentially induced *in vitro* by IL-4 and IL-13 in primary HNECs.

Probe Set ID	mRNA Accession	UniGene ID	GeneSymbol	Gene Name	Cytoband	log2(signal)	log2(IL-4/C)	log2(IL-13/C)
7971077	NM_006475	Hs.136348	POSTN	periostin, osteoblast specific factor	13q13.3	8.21	6.78	4.32
8065412	NM_001898	Hs.123114	CST1	cystatin SN	20p11.21	9.71	5.02	4.67
8140358	NM_006072	Hs.131342	CCL26	chemokine (C-C motif) ligand 26	7q11.23	8.85	4.43	3.44
8135436	NM_000441	Hs.571246	SLC26A4	solute carrier family 26, member 4	7q31	6.84	3.86	2.19
8063761	NM_177980	Hs.54973	CDH26	cadherin-like 26	20q13.2-q13.33	9.81	3.70	3.50
8084657	NM_014375	Hs.81073	FETUB	fetuin B	3q27	7.44	3.62	3.17
8013536	NM_000625	Hs.434386	NOS2A	nitric oxide synthase 2A (inducible, hepatocytes)	17q11.2-q12	8.63	3.39	3.10
8021645	NM_005024	Hs.158339	SERPINB10	serpin peptidase inhibitor, clade B (ovalbumin), member 10	18q21.3	7.99	3.29	2.43
8056222	NM_001935	Hs.368912	DPP4	dipeptidyl-peptidase 4 (CD26, adenosine deaminase complexing protein 2)	2q24.3	7.12	2.76	1.96
8154233	NM_014143	Hs.521989	CD274	CD274 molecule	9p24	6.61	2.46	1.76
8152617	NM_005328	Hs.571528	HAS2	hyaluronan synthase 2	8q24.12	8.49	2.45	1.66
7942135	NM_018043	Hs.503074	TMEM16A	transmembrane protein 16A	11q13.3	8.43	2.35	1.33
7921900	NM_053282	Hs.350581	SH2D1B	SH2 domain containing 1B	1q21	6.13	2.24	1.30
7954330	NM_019844	Hs.504966	SLCO1B3	solute carrier organic anion transporter family, member 1B3	12p12	7.84	2.18	1.53
7918694	NM_001010922	Hs.123106	C1orf178	chromosome 1 open reading frame 178	1p13.2	9.22	2.14	1.68
8021635	NM_002575	Hs.594481	SERPINB2	serpin peptidase inhibitor, clade B (ovalbumin), member 2	18q21.3	10.5	2.07	1.34
7935553	NM_032211	Hs.306814	LOXL4	lysyl oxidase-like 4	10q24	9.42	2.06	1.23
8157524	NM_138554	Hs.174312	TLR4	toll-like receptor 4	9q32-q33	8.58	2.04	2.06
8152976	ENST00000356838	---	TMEM71	transmembrane protein 71 (TMEM71)	8q24.22	7.92	1.96	1.40
8169504	NM_007231	Hs.522109	SLC6A14	solute carrier family 6 (amino acid transporter), member 14	Xq23-q24	11.6	1.90	1.49
7933043	---	---	---	---	---	4.84	1.75	1.21
8040458	NM_002252	Hs.414489	KCNS3	potassium voltage-gated channel, delayed-rectifier, subfamily S, member 3	2p24	9.06	1.74	1.76
8011678	---	---	---	---	---	5.49	1.71	1.23
7934916	NM_003956	Hs.47357	CH25H	cholesterol 25-hydroxylase	10q23	7.27	1.62	1.12
8112668	NM_016591	Hs.272404	GCNT4	glucosaminyl (N-acetyl) transferase 4, core 2 (beta-1,6-N-acetylglucosaminyltransferase)	5q12	7.1	1.59	1.47
8092769	NM_198505	Hs.658032	ATP13A5	ATPase type 13A5	3q29	8.68	1.58	1.05
7922200	NM_003005	Hs.73800	SELP	selectin P (granule membrane protein 140kDa, antigen CD62)	1q22-q25	6.57	1.55	1.14
7939341	NM_000610	Hs.502328	CD44	CD44 molecule (Indian blood group)	11p13	11.5	1.53	1.18
8109001	NM_006846	Hs.331555	SPINK5	serine peptidase inhibitor, Kazal type 5	5q32	9.29	1.49	1.22
7988563	NM_203349	Hs.642615	SHC4	SHC (Src homology 2 domain containing) family, member 4	15q21.1-q21.2	6.8	1.36	1.01
7965357	NM_003774	Hs.25130	GALNT4	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4 (GalNAc-T4)	12q21.3-q22	9.84	1.35	1.21
8023688	NM_002974	Hs.123035	SERPINB4	serpin peptidase inhibitor, clade B (ovalbumin), member 4	18q21.3	10.8	1.35	1.13
8047161	NM_001031716	Hs.591610	OBFC2A	oligonucleotide/oligosaccharide-binding fold containing 2A	2q32.3	8.4	1.35	1.13
8162502	NM_000507	Hs.494496	FBP1	fructose-1,6-bisphosphatase 1	9q22.3	9.5	1.34	1.22
8161774	NM_017662	Hs.272225	TRPM6	transient receptor potential cation channel, subfamily M, member 6	9q21.13	6.87	1.26	1.18
7934411	NM_152586	Hs.657355	USP54	ubiquitin specific peptidase 54	10q22.2	9.06	1.23	1.04
8133876	NM_001001547	Hs.120949	CD36	CD36 molecule (thrombospondin receptor)	7q11.2	9.33	1.18	1.01
7991602	NM_002570	Hs.498494	PCSK6	proprotein convertase subtilisin/kexin type 6	15q26.3	7.96	1.16	1.14
7935142	---	---	---	---	---	4.2	1.14	1.55
8045088	---	---	---	---	---	5.26	1.13	1.24
8087739	NM_145071	Hs.655334	CISH	cytokine inducible SH2-containing protein	3p21.3	7.83	1.00	1.06
8127362	---	---	---	---	---	3.23	-1.03	-1.10
7988350	NM_014080	Hs.71377	DUOX2	dual oxidase 2	15q15.3	7.94	-1.05	-1.01
7959482	---	---	---	---	---	3.98	-1.29	-1.24
8163616	---	---	---	---	---	3.1	-1.89	-1.40
7939056	NM_003986	Hs.591996	BBOX1	butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1	11p14.2	6.84	-1.89	-1.45

Supplementary Table E6. 160 genes differentially expressed in nasal epithelial brushings (patients with uncontrolled asthma *versus* patients with controlled asthma).

Probe Set ID	mRNA Accession	UniGene	Gene Symbol	Gene Name	Cytoband	log2(signal)	log2(uncontrolled/ controlled)	p-value
7921690	NM_017625	Hs.50813	ITLN1	intelectin 1 (galactofuranose binding)	1q22-q23.5	5.82	2.73	3.16E-05
7902721	NM_001285	Hs.194659	CLCA1	chloride channel, calcium activated, family member 1	1p31-p22	4.30	2.65	4.11E-05
7971077	NM_006475	Hs.136348	POSTN	periostin, osteoblast specific factor	13q13.3	6.80	2.39	1.89E-02
8084657	NM_014375	Hs.81073	FETUB	fetuin B	3q27	5.68	1.75	4.54E-04
8056222	NM_001935	Hs.368912	DPP4	dipeptidyl-peptidase 4 (CD26, adenosine deaminase complexing protein 2)	2q24.3	6.38	1.72	4.28E-03
8083260	NM_001870	Hs.646	CPA3	carboxypeptidase A3 (mast cell)	3q21-q25	6.09	1.29	1.21E-02
8147132	NM_000067	Hs.155097	CA2	carbonic anhydrase II	8q22	6.28	1.26	1.99E-02
8102050	NM_178833	Hs.546482	NHEDC2	Na+/H+ exchanger domain containing 2	4q24	5.99	1.16	5.82E-04
7933933	NM_021800	Hs.260720	DNAJC12	DnaJ (Hsp40) homolog, subfamily C, member 12	10q22.1	5.16	1.15	2.52E-05
8169263	NM_182607	Hs.177164	VSIG1	V-set and immunoglobulin domain containing 1	Xq22.3	4.74	1.12	3.31E-03
7930482	NM_000681	Hs.249159	ADRA2A	adrenergic, alpha-2A-, receptor	10q24-q26	7.37	1.10	3.81E-04
8063761	NM_177980	Hs.54973	CDH26	cadherin-like 26	20q13.2-q13.33	8.57	1.10	2.13E-02
7902527	NM_001039585	Hs.654365	PTGFR	prostaglandin F receptor (FP)	1p31.1	6.12	1.05	1.01E-02
8081288	NM_018004	Hs.658956	TMEM45A	transmembrane protein 45A	3q12.2	5.62	1.04	3.88E-02
8075049	ENST00000382744	---	BA9F11.1	hypothetical LOC255349 (bA9F11.1), mRNA	22q11.23	5.61	0.93	2.63E-02
8062576	NM_021931	Hs.444520	DHX35	DEAH (Asp-Glu-Ala-His) box polypeptide 35	20q11.22-q12	7.07	0.90	2.97E-03
8081826	NM_006952	Hs.271580	UPK1B	uroplakin 1B	3q13.3-q21	10.19	0.89	4.53E-02
8106448	NM_003719	Hs.584830	PDE8B	phosphodiesterase 8B	5q14.1	7.20	0.86	2.17E-02
8003667	NM_002615	Hs.532768	SERPINF1	serpin peptidase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1	17p13.1	8.94	0.85	3.56E-02
8029754	NM_004497	Hs.36137	FOXA3	forkhead box A3	19q13.2-q13.4	6.82	0.80	1.54E-02
7963313	NM_007210	Hs.505575	GALNT6	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (GalNAc-T6)	12q13	6.65	0.78	4.11E-02
8042917	NM_001381	Hs.103854	DOK1	docking protein 1, 62kDa (downstream of tyrosine kinase 1)	2p13	6.60	0.77	1.12E-03
8040430	NM_003385	Hs.444212	VSNL1	visinin-like 1	2p24.3	4.98	0.76	1.74E-03
8164496	NM_004059	Hs.495250	CCBL1	cysteine conjugate-beta lyase; cytoplasmic (glutamine transaminase K, kyneurenine aminotransferase)	9q34.11	6.21	0.76	6.67E-04
7933312	NM_001040084	Hs.535306	ANXA8	annexin A8	10q11.22	6.99	0.75	4.67E-02
8122038	ENST00000296978	---	KIAA1913	KIAA1913 (KIAA1913), mRNA	6q23.1	5.70	0.75	1.12E-03
8171248	NM_000216	Hs.521869	KAL1	Kallmann syndrome 1 sequence	Xp22.32	5.88	0.73	2.00E-02
8105302	NM_006350	Hs.9914	FST	Follistatin	5q11.2	5.46	0.73	1.97E-02
8126853	NM_001013732	Hs.659409	C6ORF138	chromosome 6 open reading frame 138	6p12.3	4.22	0.73	1.21E-02
7950140	---	---	-	---	-	6.63	0.71	2.61E-04
8053200	NM_133637	Hs.191705	DQX1	DEAQ box polypeptide 1 (RNA-dependent ATPase)	2p13.1	5.83	0.70	3.07E-02
8167690	---	---	-	---	-	5.04	0.69	1.96E-02
8172719	---	---	-	---	-	5.04	0.69	1.96E-02
8101992	NM_022154	Hs.288034	SLC39A8	solute carrier family 39 (zinc transporter), member 8	4q22-q24	8.66	0.67	2.60E-02
7961306	NM_005039	Hs.631726	PRB1	proline-rich protein BstNI subfamily 1	12p13.2	6.29	0.67	3.30E-03
8088560	NM_182920	Hs.656071	ADAMTS9	ADAM metallopeptidase with thrombospondin type 1 motif, 9	3p14.3-p14.2	5.11	0.65	2.24E-02
8105348	---	---	-	---	-	6.25	0.64	4.75E-02
8167673	NM_030801	---	MAGED4B	melanoma antigen family D, 4B	-	6.06	0.63	3.97E-02
8172722	NM_030801	---	MAGED4B	melanoma antigen family D, 4B	-	6.06	0.63	3.97E-02
7908397	NM_002927	Hs.497220	RGS13	regulator of G-protein signaling 13	1q31.2	4.21	0.62	7.17E-03
7961320	NM_006248	Hs.654486	PRB2	proline-rich protein BstNI subfamily 2	12p13.2	6.21	0.60	1.72E-02
8041206	NM_030915	Hs.567598 // Hs.593113	LBH	limb bud and heart development homolog (mouse)	2p23.1	7.50	0.59	1.26E-02
8125843	NM_012391	Hs.485158	SPDEF	SAM pointed domain containing ets transcription factor	6p21.3	9.50	0.59	1.27E-02

8069269	NM_001848	Hs.474053	COL6A1	collagen, type VI, alpha 1	21q22.3	7.51	0.59	6.55E-03
8107769	NM_001046	Hs.162585 // Hs.643978	SLC12A2	solute carrier family 12 (sodium/potassium/chloride transporters), member 2	5q23.3	9.82	0.55	2.00E-03
7946292	NM_016229	Hs.414362	CYB5R2	cytochrome b5 reductase 2	11p15.4	7.42	0.53	3.82E-02
8123446	NM_022138	Hs.487200	SMOC2	SPARC related modular calcium binding 2	6q27	5.03	0.53	3.67E-02
8113800	NM_001999	Hs.519294	FBN2	fibrillin 2 (congenital contractural arachnodactyly)	5q23-q31	4.21	0.51	3.14E-02
7905677	NM_130898	Hs.372924	CREB3L4	cAMP responsive element binding protein 3-like 4	1q21.3	6.98	0.50	2.25E-02
7967874	---	---	-	---	-	4.23	0.49	4.52E-03
7912887	NM_002403	Hs.389137	MFAP2	microfibrillar-associated protein 2	1p36.1-p35	6.64	0.46	3.48E-02
7898431	NM_016233	Hs.149195	PADI3	peptidyl arginine deiminase, type III	1p36.13	6.29	0.46	4.17E-02
8088192	NM_015576	Hs.476389	ERC2	ELKS/RAB6-interacting/CAST family member 2	3p14.3	4.84	0.45	2.07E-02
7923578	NM_002023	Hs.519168	FMOD	Fibromodulin	1q32	4.18	0.45	4.39E-02
8104107	ENST00000326754	---	FLJ25801	hypothetical protein FLJ25801 (FLJ25801), mRNA	4q35.2	4.03	0.44	3.32E-02
8032751	---	---	-	---	-	5.94	0.44	3.86E-02
8086391	NM_000729	Hs.458426	CCK	Cholecystokinin	3p22-p21.3	5.45	0.42	2.07E-02
8115730	---	---	-	---	-	4.93	0.41	4.69E-02
8031843	---	---	-	---	-	4.97	0.41	3.62E-04
8046360	NM_199227	Hs.298250	MAP1D	methionine aminopeptidase 1D	2q31.1	4.40	0.40	1.18E-02
8060940	NM_012261	Hs.22920	C20ORF103	chromosome 20 open reading frame 103	20p12	4.30	0.40	3.20E-02
7995350	---	---	-	---	-	8.68	0.40	4.37E-02
8121112	---	---	-	---	-	5.45	0.40	2.32E-02
8174092	NM_177949	Hs.48924	ARMCX2	armadillo repeat containing, X-linked 2	Xq21.33-q22.2	5.61	0.39	2.99E-02
8037835	NM_005628	Hs.631582	SLC1A5	solute carrier family 1 (neutral amino acid transporter), member 5	19q13.3	8.96	0.38	4.17E-02
8174389	NM_033641	Hs.145586	COL4A6	collagen, type IV, alpha 6	Xq22	5.62	0.37	4.49E-02
8175860	NM_032512	Hs.92732	PDZD4	PDZ domain containing 4	Xq28	5.39	0.37	1.33E-02
7923442	NM_177402	Hs.585015	SYT2	synaptotagmin II	1q32.1	5.13	0.36	4.92E-02
7954243	---	---	-	---	-	6.03	0.36	4.77E-02
8169441	---	---	-	---	-	4.97	0.36	4.49E-02
7994981	ENST00000318663	---	ORAI3	transmembrane protein 142C (TMEM142C), mRNA	16p11.2	7.54	0.35	4.39E-02
8077970	NM_001004019	Hs.198862	FBLN2	fibulin 2	3p25.1	5.71	0.34	3.94E-02
7970542	---	---	-	---	-	4.59	0.34	1.70E-02
7914516	---	---	-	---	-	6.42	0.32	2.15E-02
8026712	NM_152363	Hs.379097	ANKRD41	ankyrin repeat domain 41	19p13.11	4.97	0.32	4.03E-02
8079124	NM_207404	Hs.656856	ZNF662	zinc finger protein 662	3p22.1	5.97	0.32	3.14E-02
7961259	NM_006250	Hs.654485	PRH1	proline-rich protein HaeIII subfamily 1	12p13.2	4.90	0.32	3.08E-02
8132557	NM_001129	Hs.439463	AEBP1	AE binding protein 1	7p13	6.47	0.31	2.23E-02
8053165	NM_053050	Hs.534527	MRPL53	mitochondrial ribosomal protein L53	2p13.1	8.56	0.31	4.40E-02
8097443	---	---	-	---	-	5.47	0.30	1.95E-02
7960283	NM_172364	Hs.13768	CACNA2D4	calcium channel, voltage-dependent, alpha 2/delta subunit 4	12p13.33	5.48	0.29	2.14E-02
7961300	NM_006249	Hs.73031	PRB3	proline-rich protein BstNI subfamily 3	12p13.2	6.83	0.29	4.53E-02
7933498	---	---	-	---	-	6.02	0.28	4.42E-02
7897154	NM_014448	Hs.87435	ARHGEF16	Rho guanine exchange factor (GEF) 16	1p36.3	7.23	0.28	1.99E-02
8084887	---	---	-	---	-	4.85	0.27	2.30E-02
7996331	NM_005182	Hs.37014	CA7	carbonic anhydrase VII	16q22.1	4.19	0.27	3.35E-02
8076815	---	---	-	---	-	4.63	0.24	3.77E-02
8009693	ENST00000335464	---	TMEM104	transmembrane protein 104 (TMEM104), mRNA	17q25.1	6.53	-0.25	3.72E-02
8034286	NM_016581	Hs.515146	ECSIT	ECSIT homolog (Drosophila)	19p13.2	7.59	-0.25	2.25E-02
7999044	NM_004380	Hs.459759	CREBBP	CREB binding protein (Rubinstein-Taybi syndrome)	16p13.3	8.53	-0.26	4.81E-02
8155707	NM_004817	Hs.50382	TJP2	tight junction protein 2 (zona occludens 2)	9q13-q21	10.21	-0.27	3.28E-02
7897520	---	---	-	---	-	4.89	-0.27	2.37E-02
8142415	NM_152556	Hs.489734	FLJ31818	hypothetical protein FLJ31818	7q31.1	7.46	-0.27	4.07E-02
8013307	NM_001455	Hs.220950	FOXO3	forkhead box O3	6q21	9.52	-0.28	2.57E-02

7932023	NM_001080491	Hs.498661	USP6NL	USP6 N-terminal like	10p13	7.57	-0.28	2.64E-02
7978595	NM_013448	Hs.696045	BAZ1A	bromodomain adjacent to zinc finger domain, 1A	14q12-q13	8.35	-0.30	3.41E-02
8063211	NM_006534	Hs.592142	NCOA3	nuclear receptor coactivator 3	20q12	9.05	-0.31	3.30E-03
8005407	NM_004140	Hs.513983	LLGL1	lethal giant larvae homolog 1 (Drosophila)	17p11.2	7.37	-0.32	4.63E-02
8119926	NM_018426	Hs.414473	TMEM63B	transmembrane protein 63B	6p21.1	8.59	-0.32	2.57E-02
7952290	NM_012101	Hs.504115	TRIM29	tripartite motif-containing 29	11q22-q23	10.40	-0.33	3.65E-02
8064766	NM_007219	Hs.589884	RNF24	ring finger protein 24	20p13-p12.1	7.85	-0.34	3.56E-02
8166705	NM_000950	Hs.190341	PRRG1	proline rich Gla (G-carboxyglutamic acid) 1	Xp21.1	5.57	-0.34	3.07E-02
8079140	NM_017719	Hs.476052	SNRK	SNF related kinase	3p22.1	8.03	-0.35	7.91E-04
7939546	NM_002231	Hs.527778	CD82	CD82 molecule	11p11.2	10.43	-0.36	3.32E-02
8117243	NM_017640	Hs.649550	LRRC16	leucine rich repeat containing 16	6p22.2	8.49	-0.36	2.19E-02
7925062	NM_020808	Hs.268774	SIPA1L2	signal-induced proliferation-associated 1 like 2	1q42.2	7.13	-0.36	1.54E-02
7982102	NM_000810	Hs.612087	GABRA5	gamma-aminobutyric acid (GABA) A receptor, alpha 5	15q11.2-q12	4.62	-0.38	2.63E-02
7976976	NM_014844	Hs.195667	KIAA0329	KIAA0329	14q32.31	6.64	-0.38	3.95E-02
8060627	NM_139321	Hs.276252	ATRN	Attractin	20p13	8.80	-0.38	6.06E-03
7964701	NM_002076	Hs.334534	GNS	glucosamine (N-acetyl)-6-sulfatase (Sanfilippo disease IIID)	12q14	9.73	-0.38	3.36E-02
8038029	NM_014959	Hs.446146	CARD8	caspase recruitment domain family, member 8	19q13.32	6.49	-0.38	2.13E-02
7947462	NM_145804	Hs.23361	ABTB2	ankyrin repeat and BTB (POZ) domain containing 2	11p13	5.41	-0.38	2.85E-02
8133326	NM_001099415	---	LOC100101267	POM121 membrane glycoprotein (rat)-like	7q11.2	7.30	-0.38	3.04E-02
7922689	NM_002065	Hs.518525	GLUL	glutamate-ammonia ligase (glutamine synthetase)	1q31	10.54	-0.38	4.84E-03
8082012	NM_021082	Hs.518089	SLC15A2	solute carrier family 15 (H+/peptide transporter), member 2	3q13.33	10.59	-0.39	3.77E-02
8063386	NM_005194	Hs.517106	CEBPB	CCAAT/enhancer binding protein (C/EBP), beta	20q13.1	8.19	-0.40	3.47E-02
7910111	NM_000120	Hs.89649	EPHX1	epoxide hydrolase 1, microsomal (xenobiotic)	1q42.1	9.79	-0.42	4.02E-02
8071069	NM_014339	Hs.129751	IL17RA	interleukin 17 receptor A	22q11.1	7.57	-0.43	1.11E-02
8145954	NM_006283	Hs.279245	TACC1	transforming, acidic coiled-coil containing protein 1	8p11	7.80	-0.45	1.95E-02
8105436	---	---	-	---	-	8.66	-0.45	1.97E-02
7961546	NM_004447	Hs.591160	EPS8	epidermal growth factor receptor pathway substrate 8	12q13	9.19	-0.45	3.07E-02
8091352	NM_020131	Hs.283739	UBQLN4	ubiquilin 4	1q21	6.20	-0.45	3.82E-02
8126382	---	---	-	---	-	8.04	-0.47	1.89E-02
8096116	NM_032717	Hs.99196	MAG1	lung cancer metastasis-associated protein	4q21.23	7.33	-0.47	4.71E-02
7908003	NM_030769	Hs.496969	NPL	N-acetylneuraminate pyruvate lyase (dihydrodipicolinate synthase)	1q25	5.38	-0.48	6.67E-03
7904572	---	---	-	---	-	4.60	-0.48	3.08E-02
8160297	NM_001122	Hs.3416	ADFP	adipose differentiation-related protein	9p22.1	6.60	-0.49	3.45E-03
7905154	---	---	-	---	-	6.78	-0.50	3.67E-03
7948397	---	---	-	---	-	5.22	-0.50	9.79E-03
8053484	NM_003896	Hs.415117	ST3GAL5	ST3 beta-galactoside alpha-2,3-sialyltransferase 5	2p11.2	6.67	-0.52	2.07E-02
7927658	NM_003338	Hs.129683	UBE2D1	ubiquitin-conjugating enzyme E2D 1 (UBC4/5 homolog, yeast)	10q11.2-q21	8.02	-0.55	8.12E-03
7984779	NM_033240	Hs.526464	PML	promyelocytic leukemia	15q22	7.30	-0.55	4.19E-02
7936856	NM_015892	Hs.287537	GALNAC4S-6ST	B cell RAG associated protein	10q26	7.23	-0.56	1.14E-03
7961891	NM_030762	Hs.177841	BHLHB3	basic helix-loop-helix domain containing, class B, 3	12p11.23-p12.1	6.90	-0.57	4.40E-02
8009653	NM_007261	Hs.9688	CD300A	CD300a molecule	17q25.1	6.19	-0.58	3.82E-02
7960794	NM_004244	Hs.504641	CD163	CD163 molecule	12p13.3	4.88	-0.58	2.11E-02
8124798	NM_133471	Hs.696054	KIAA1949	KIAA1949	6p21.3	6.08	-0.58	2.19E-02
7943413	NM_001165	Hs.127799	BIRC3	baculoviral IAP repeat-containing 3	11q22	7.73	-0.60	2.24E-02
7964834	NM_001005502	Hs.654387	CPM	carboxypeptidase M	12q14.3	6.66	-0.61	3.61E-02
8121861	NM_181782	Hs.171426	NCOA7	nuclear receptor coactivator 7	6q22.31-q22.32	6.23	-0.61	3.87E-02
8076734	NM_058238	Hs.512714	WNT7B	wingless-type MMTV integration site family, member 7B	22q13	7.56	-0.64	9.51E-03
7931832	NM_205845	Hs.567256	AKR1C2	aldo-keto reductase family 1, member C2 (dihydrodiol dehydrogenase 2; bile acid binding protein; 3-alpha hydroxysteroid dehydrogenase, type III)	10p15-p14	9.73	-0.66	5.84E-05
8153959	NM_203447	Hs.132599	DOCK8	dedicator of cytokinesis 8	9p24.3	6.98	-0.66	4.84E-02

8075306	---	---	-	---	-	4.66	-0.67	1.97E-02
8115623	NM_025153	Hs.109358	ATP10B	ATPase, Class V, type 10B	5q34	8.40	-0.71	4.26E-03
7978644	NM_020529	Hs.81328	NFKBIA	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	14q13	9.46	-0.71	1.04E-02
8090823	NM_005630	Hs.518270	SLCO2A1	solute carrier organic anion transporter family, member 2A1	3q21	7.72	-0.72	3.97E-02
8026456	NM_000896	Hs.106242	CYP4F3	cytochrome P450, family 4, subfamily F, polypeptide 3	19p13.2	7.50	-0.73	2.93E-02
8068697	NM_002463	Hs.926	MX2	myxovirus (influenza virus) resistance 2 (mouse)	21q22.3	7.91	-0.75	2.71E-02
8103601	NM_001012967	Hs.535011	FLJ31033	hypothetical protein FLJ31033	4q32.3	7.07	-0.79	1.21E-02
7997152	NM_005769	Hs.251383	CHST4	carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 4	16q22.3	6.14	-0.79	7.64E-04
8125919	NM_004117	Hs.407190	FKBP5	FK506 binding protein 5	6p21.3-p21.2	7.28	-0.80	1.01E-02
7957962	NM_152323	Hs.577097	SPIC	Spi-C transcription factor (Spi-1/PU.1 related)	12q23.2	4.50	-0.85	5.82E-04
8142120	NM_005746	Hs.489615	PBEF1	pre-B-cell colony enhancing factor 1	7q22.2	10.43	-0.86	6.27E-03
8014903	NM_001042471	Hs.306777	GSDML	gasdermin-like	17q12	8.29	-0.86	1.10E-03
8100798	NM_014465	Hs.129742	SULT1B1	sulfotransferase family, cytosolic, 1B, member 1	4q13.3	4.20	-0.90	2.03E-02
7933084	ENST00000222553	---	PBEF1	pre-B-cell colony enhancing factor 1 (PBEF1), mRNA	7q22.2	11.11	-0.91	8.53E-03
7929047	NM_001547	Hs.437609	IFIT2	interferon-induced protein with tetratricopeptide repeats 2	10q23-q25	7.01	-0.93	4.73E-02
8086600	NM_001295	Hs.301921	CCR1	chemokine (C-C motif) receptor 1	3p21	4.94	-0.94	2.51E-02
7921031	---	---	-	---	-	4.59	-0.94	2.93E-03
8086330	NM_033027	Hs.370950	AXUD1	AXIN1 up-regulated 1	3p22	7.30	-1.22	4.49E-06
7917530	---	---	-	---	-	6.58	-1.29	1.80E-02

Supplementary Table E7. Functional annotation of the 160 genes regulated in patients with uncontrolled, compared with controlled, asthma.

Category	Term	Count	Pop Hits	p-value	Gene symbol
CC	proteinaceous extracellular matrix	12	344	4.06E-05	**ADAMTS9, CLCA1, COL4A6, COL6A1, FBLN2, FBN2, FMOD, KAL1, MFAP2, POSTN, SMOC2** **WNT7B**
MF	exopeptidase activity	6	102	7.00E-04	**AEBP1, CPA3, DPP4, MAP1D** **ATRN, CPM**
BP	response to stress	14	1081	2.65E-02	**8105348, ADRA2A, ANXA8, CREB3L4, FOXA3** **8105436, ATRN, CCR1, CD163, CEBPB, CHST4, CREBBP, GABRA5, PML**
CC	integral to plasma membrane	16	1246	3.56E-02	**ADRA2A, CLCA1, KCND2, PTGFR, SLC12A2, SLC1A5** **ATRN, CCR1, CD163, CD82, GABRA5, IL17RA, PRRG1, SLCO2A1, ST3GAL5, TJP2**

Supplementary Table E8. 316 genes differentially expressed in primary HNECs treated with IFN-α, IFN-β or IFN-γ.

Probe Set ID	mRNA Accession	UniGene ID	Gene Symbol	Gene Name	Cytoband	log2(signal)	log2 (IFNα/C)	log2(IFNβ/C)	log2(IFNγ/C)
8101126	NM_001565	Hs.632586	CXCL10	chemokine (C-X-C motif) ligand 10	4q21	8.3	6.97	1.63	8.02
7929065	NM_001548	Hs.20315	IFIT1	interferon-induced protein with tetratricopeptide repeats 1	10q25-q26	10.5	6.33	5.37	2.12
8040080	NM_080657	Hs.17518	RSAD2	radical S-adenosyl methionine domain containing 2	2p25.2	9.7	6.22	4.65	3.2
8068697	NM_002463	Hs.926	MX2	myxovirus (influenza virus) resistance 2 (mouse)	21q22.3	9.95	5.9	5.23	2.24
7902541	NM_006820	Hs.389724	IFI44L	interferon-induced protein 44-like	1p31.1	9.39	5.86	5.38	3.63
7929047	NM_001547	Hs.437609	IFIT2	interferon-induced protein with tetratricopeptide repeats 2	10q23-q25	10.2	5.66	3.88	4
8096361	NM_016323	Hs.26663	HERC5	hect domain and RLD 5	4q22.1	7.27	5.37	3.58	1.1
7967117	NM_003733	Hs.118633	OASL	2'-5'-oligoadenylate synthetase-like	12q24.2	8.56	4.94	2.6	1.56
8101131	NM_005409	Hs.632592	CXCL11	chemokine (C-X-C motif) ligand 11	4q21.2	7.45	4.67	0.23	6.18
7929052	NM_001031683	Hs.47338	IFIT3	interferon-induced protein with tetratricopeptide repeats 3	10q24	9.6	4.67	3.75	3.79
7902553	NM_006417	Hs.82316	IFI44	interferon-induced protein 44	1p31.1	9.06	4.67	4.16	2.65
7971296	NM_001002264	Hs.546467	EPSTI1	epithelial stromal interaction 1 (breast)	13q13.3	7.95	4.47	3.03	3.66
8074606	ENST00000292729	---	---	---	---	9.54	4.41	3.28	1.51
8160559	NM_014314	Hs.190622	DDX58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	9p12	9.66	4.33	3.2	2.42
7917561	NM_052941	Hs.409925	GBP4	guanylate binding protein 4	1p22.2	8.7	4.29	1.26	5.79
8068713	NM_002462	Hs.517307	MX1	myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse)	21q22.3	11.1	4.25	3.51	2.65
8140971	NM_152703	Hs.489118	SAMD9L	sterile alpha motif domain containing 9-like	7q21.2-q21.3	8.68	4.21	2.67	3.12
8103601	NM_001012967	Hs.535011	FLJ31033	hypothetical protein FLJ31033	4q32.3	9.09	4.09	2.69	1.23
8103563	ENST00000260184	---	FLJ20035	hypothetical protein FLJ20035 (FLJ20035)	4q32.3	8.62	4.07	2.99	2.6
7958913	NM_002535	Hs.414332	OAS2	2'-5'-oligoadenylate synthetase 2, 69/71kDa	12q24.2	10.21	3.99	3.4	2.58
8146092	NM_002164	Hs.840	INDO	indoleamine-pyrrole 2,3 dioxygenase	8p12-p11	9.69	3.93	0.37	5.71
7914127	NM_022872	Hs.523847	IFI6	interferon, alpha-inducible protein 6	1p35	10.69	3.68	2.61	1.12
8050102	NM_207315	Hs.7155	LOC129607	hypothetical protein LOC129607	2p25.2	8.63	3.66	2.16	1.63
7896817	NM_005101	Hs.458485	ISG15	ISG15 ubiquitin-like modifier	1p36.33	9.36	3.59	2.03	1.09
8071155	NM_017414	Hs.38260	USP18	ubiquitin specific peptidase 18	22q11.21	8.92	3.56	2.24	0.86
8004184	NM_017523	Hs.441975	XAF1	XIAP associated factor-1	17p13.2	9.5	3.51	2.68	2.59
8059650	NM_080424	Hs.145150	SP110	SP110 nuclear body protein	2q37.1	8.68	3.47	2.34	2.69
8056285	NM_022168	Hs.163173	IFIH1	interferon induced with helicase C domain 1	2q24	9.14	3.46	1.94	1.89
7958895	NM_006187	Hs.528634	OAS3	2'-5'-oligoadenylate synthetase 3, 100kDa	12q24.2	9.77	3.46	2.39	2.23
7958884	NM_016816	Hs.524760	OAS1	2',5'-oligoadenylate synthetase 1, 40/46kDa	12q24.1	11.19	3.38	2.34	1.6
8117034	NM_006877	Hs.484741	GMPR	guanosine monophosphate reductase	6p23	7.58	3.34	1.13	0.44
8096335	NM_017912	Hs.529317	HERC6	hect domain and RLD 6	4q22.1	9.48	3.32	2.37	1.21
7921434	NM_004833	Hs.281898	AIM2	absent in melanoma 2	1q22	5.84	3.23	1	2.39
8007446	NM_005533	Hs.632258	IFI35	interferon-induced protein 35	17q21	9.86	3.18	1.73	2.52
8086125	NM_014831	Hs.170999	LBA1	lupus brain antigen 1	3p22.2	8.42	3.04	1.54	1.41
7988350	NM_014080	Hs.71377	DUOX2	dual oxidase 2	15q15.3	9.43	3.01	1.26	2.58
7983405	NM_207581	Hs.497987	DUOXA2	dual oxidase maturation factor 2	15q15.1	8.27	2.81	1.08	2.72
8082100	NM_017554	Hs.696194	PARP14	poly(ADP-ribose) polymerase famil member 14	3q21.1	10.66	2.75	1.85	2.72
8066117	NM_015474	Hs.580681	SAMHD1	SAM domain and HD domain 1	20pter-q12	10.3	2.7	1.78	2.37
8041422	NM_170672	Hs.143674	RASGRP3	RAS guanyl releasing protein 3 (calcium and DAG-regulated)	2p25.1-p24.1	5.63	2.68	0.97	1.02
7917516	NM_002053	Hs.62661	GBP1	guanylate binding protein 1, interferon-inducible, 67kDa	1p22.2	11	2.64	0.99	3.83
8073088	NM_021822	Hs.660143	APOBEC3G	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G	22q13.1-q13.2	6.13	2.59	0.12	1.52
8140967	NM_017654	Hs.65641	SAMD9	sterile alpha motif domain containing 9	7q21.2	10.14	2.52	1.27	0.66
8084732	NM_022147	Hs.43388	RTP4	receptor (chemosensory) transporter protein 4	3q27.3	8.65	2.51	1.73	1.72
8057744	NM_007315	Hs.642990	STAT1	signal transducer and activator of transcription 1, 91kDa	2q32.2	11.75	2.5	1.89	2.48
7948982	NM_017878	Hs.272805	HRASLS2	HRAS-like suppressor 2	11q12.3	7.55	2.47	0.12	0.09
8122334	AF110640	Hs.310512	CCRL1	chemokine (C-C motif) receptor-like 1	3q22	7.43	2.47	0.81	3.45
8010426	ENST00000319902	---	---	---	---	10.37	2.46	1.2	2.23
8010454	NM_020914	Hs.195642	RNF213	ring finger protein 213	17q25.3	11	2.4	1.17	2.19
8090018	NM_031458	Hs.518200	PARP9	poly (ADP-ribose) polymerase family, member 9	3q13-q21	10.4	2.38	1.94	2.17

8136388	NM_018295	Hs.658637	TMEM140	transmembrane protein 140	7q33	8.29	2.37	1.08	2.4
7948493	NM_016582	Hs.237856	SLC15A3	solute carrier family 15, member 3	11q12.2	8.52	2.31	0.69	1.67
8026533	ENST00000253680	---	---	---	---	7.99	2.31	1.36	0.68
8052331	NM_033109	Hs.388733	PNPT1	polyribonucleotide nucleotidyltransferase 1	2p15	9.75	2.29	1.37	0.01
8015511	NM_024119	Hs.55918	DHX58	DEXH (Asp-Glu-X-His) box polypeptide 58	17q21.2	8.28	2.28	1.26	1.04
8101701	NM_152542	Hs.291000	PPM1K	protein phosphatase 1K (PP2C domain containing)	4q22.1	6.94	2.28	1.18	0.12
7899394	NM_004848	Hs.10649	C1ORF38	chromosome 1 open reading frame 38	1p35.3	7.47	2.26	0.34	0.23
8055702	NM_004688	Hs.54483	NMI	N-myc (and STAT) interactor	2q23	8.93	2.25	0.85	2.02
7964119	NM_005419	Hs.530595	STAT2	signal transducer and activator of transcription 2, 113kDa	12q13.2	10.14	2.24	1.25	1.81
8156688	NM_014290	Hs.193842	TDRD7	tudor domain containing 7	9q22.33	8.3	2.23	1.23	0.89
8092348	NM_014398	Hs.518448	LAMP3	lysosomal-associated membrane protein 3	3q26.3-q27	9.62	2.22	0.81	0.97
8051501	NM_002759	Hs.131431	EIF2AK2	eukaryotic translation initiation factor 2-alpha kinase 2	2p22-p21	10.42	2.22	1.63	0.92
7946089	NM_033034	Hs.370515	TRIM5	tripartite motif-containing 5	11p15	9.25	2.16	1.34	0.77
8067680	NM_001037335	Hs.517180	PRIC285	peroxisomal proliferator-activated receptor A interacting complex 285	20q13.33	8.73	2.15	1.66	1.02
8143327	NM_022750	Hs.12646	PARP12	poly(ADP-ribose) polymerase fam member12	7q34	9.59	2.13	1.2	1.35
7945962	NM_003141	Hs.532357	TRIM21	tripartite motif-containing 21	11p15.5	9.02	2.12	1.17	2.12
7969986	NM_006573	Hs.525157	TNFSF13B	tumor necrosis factor (ligand) superfamily, member 13b	13q32-q34	5.96	2.11	0.08	0.66
7917576	ENST00000370459	---	---	---	---	7.69	2.09	0.49	5.96
7990839	NM_181900	Hs.513075	STARD5	StAR-related lipid transfer (START) domain containing 5	15q26	8.85	2.09	0.92	1.22
8028744	ENST00000354596	---	---	---	---	6.26	2.07	0.3	5.06
8092169	NM_003810	Hs.478275	TNFSF10	tumor necrosis factor (ligand) superfamily, member 10	3q26	11.47	2.06	0.92	1.31
8179495	NM_002800	Hs.654585	PSMB9	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2)	6p21.3	9.97	2.06	0.61	2.46
8178211	NM_148954	Hs.654585	PSMB9	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2)	6p21.3	9.97	2.06	0.61	2.46
8118571	NM_148954	Hs.654585	PSMB9	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2)	6p21.3	9.97	2.06	0.61	2.46
8125993	NM_016135	Hs.272398	ETV7	ets variant gene 7 (TEL2 oncogene)	6p21	7.75	2.04	0.85	2.58
7968637	NM_003914	Hs.417050	CCNA1	cyclin A1	13q12.3-q13	8.51	2.04	0.5	0.07
8154233	NM_014143	Hs.521989	CD274	CD274 molecule	9p24	7.67	2.02	0.36	3.66
7937335	NM_003641	---	IFITM1	interferon induced transmembrane protein 1 (9-27)	11p15.5	11.37	2.02	1.32	1.28
8098611	NM_003265	Hs.657724	TLR3	toll-like receptor 3	4q35	8.72	2.01	0.45	0.95
7917530	ENST00000294663	---	---	---	---	7.17	1.98	0.29	5.09
7938035	NM_006074	Hs.501778	TRIM22	tripartite motif-containing 22	11p15	10.41	1.97	1.29	1.36
8002778	NM_152649	Hs.119878	MLKL	mixed lineage kinase domain-like	16q22.3	8.78	1.96	0.57	1.69
8161964	NM_174938	Hs.127535	FRMD3	FERM domain containing 3	9q21.32	6.8	1.95	0.01	1.47
8067869	NM_144770	Hs.283828	RBM11	RNA binding motif protein 11	21q11	4.32	1.9	0.02	0.48
7984779	NM_033240	Hs.526464	PML	promyelocytic leukemia	15q22	9	1.87	0.97	1.53
7995926	NM_032206	Hs.528836	NLRC5	NLR family, CARD domain containing 5	16q13	8.33	1.86	0.83	2.01
8007188	NM_033133	Hs.273621	CNP	2',3'-cyclic nucleotide phosphodiesterase	17q21	9.68	1.85	0.75	0.51
8016847	NM_005082	Hs.528952	TRIM25	tripartite motif-containing 25	17q23.2	10.35	1.84	1.07	1.28
8180061	NM_000593	Hs.352018	TAP1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	6p21.3	11.43	1.83	0.7	2.63
8125512	NM_000593	Hs.352018	TAP1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	6p21.3	11.43	1.83	0.7	2.63
8178867	NM_000593	Hs.352018	TAP1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	6p21.3	11.43	1.83	0.7	2.63
7976443	NM_005532	Hs.532634	IFI27	interferon, alpha-inducible protein 27	14q32	10.35	1.83	1.25	0.51
7949340	NM_138456	Hs.124840	BATF2	basic leucine zipper transcription factor, ATF-like 2	11q13.1	8.34	1.82	0.87	2.31
8066905	NM_021035	Hs.371794	ZNFX1	zinc finger, NFX1-type containing 1	20q13.13	9.92	1.81	1.02	1.28
8025551	ENST00000253110	---	---	---	---	8.72	1.8	0.86	0.73
8082075	NM_138287	Hs.518201	DTX3L	deltex 3-like (Drosophila)	3q21.1	10.21	1.8	1.23	1.71
8019486	NM_003004	Hs.558009	SECTM1	secreted and transmembrane 1	17q25	10.01	1.79	0.28	2.75
8048940	NM_001080391	Hs.369056	SP100	SP100 nuclear antigen	2q37.1	9.08	1.76	1	1.21
8091327	NM_021105	Hs.130759	PLSCR1	phospholipid scramblase 1	3q23	9.62	1.74	1.08	1.05
7951397	NM_033292	Hs.2490	CASP1	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)	11q23	8.56	1.72	0.32	1.47
8081710	NM_017699	Hs.591291	SIDT1	SID1 transmembrane family, member 1	3q13.2	7.91	1.66	0.65	0.48
8158560	NM_014506	Hs.654672	TOR1B	torsin family 1, member B (torsin B)	9q34	9.54	1.66	0.94	0.24
8137414	NM_016118	Hs.647082	NUB1	negative regulator of ubiquitin-like	7q36	10.22	1.64	0.34	1.4

				proteins 1					
8094259	NM_015907	Hs.570791	LAP3	leucine aminopeptidase 3	4p15.32	9.91	1.62	0.68	1.66
7973618	NM_006084	Hs.1706	ISGF3G	interferon-stimulated transcription factor 3, gamma 48kDa	14q11.2	9.44	1.62	1.46	1.39
8075709	NM_030643	Hs.115099	APOL4	apolipoprotein L, 4	22q11.2-q13.2	8.16	1.61	0.51	3.76
7948274	NM_004223	Hs.425777	UBE2L6	ubiquitin-conjugating enzyme E2L 6	11q12	9.86	1.6	0.73	1.5
8073081	NM_145298	Hs.659991	APOBEC3F	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F	22q13.1	7.25	1.54	0.25	0.89
7951413	NM_001007232	Hs.44102	INCA	inhibitory caspase recruitment domain (CARD) protein	11q22.3	6.65	1.54	0.14	1.27
8075695	NM_014349	Hs.474737	APOL3	apolipoprotein L, 3	22q13.1	6.87	1.54	0.46	3.12
7979721	ENST00000357461	---	---	---	---	7.74	1.52	0.62	1.26
8119198	ENST00000373451	---	KIAA0082	KIAA0082 (KIAA0082), mRNA	6p21.2	9.47	1.52	0.91	0.72
8046003	NM_012198	Hs.377894	GCA	grancalcin, EF-hand calcium binding protein	2q24.2	7.07	1.52	0.26	0.34
8154245	NM_025239	Hs.532279	PDCD1LG2	programmed cell death 1 ligand 2	9p24.2	6.61	1.51	0.47	1.77
7945462	NM_004031	Hs.166120	IRF7	interferon regulatory factor 7	11p15.5	8.61	1.51	0.8	0.4
8072710	NM_030641	Hs.257352	APOL6	apolipoprotein L, 6	22q12.3	9.59	1.5	0.49	1.92
8090180	NM_033049	Hs.5940	MUC13	mucin 13, cell surface associated	---	6.1	1.5	0.2	1.7
8138941	NM_001002009	Hs.487933	NT5C3	5'-nucleotidase, cytosolic III	7p14.3	7.85	1.48	0.32	0.41
7917532	NM_004120	Hs.386567	GBP2	guanylate binding protein 2, interferon-inducible	1p22.2	7.95	1.48	0.15	4.15
8005458	NM_001042685	Hs.656100	LOC284194	galectin-9 like	17p11.2	9.57	1.46	0.74	0.47
7956269	---	---	---	---	---	4.58	1.44	1.09	0.47
7969129	NM_001040443	Hs.369039	PHF11	PHD finger protein 11	13q14.3	8.69	1.44	0.76	0.85
8005809	NM_009587	Hs.81337	LGALS9	lectin,galactoside-binding,soluble,9 (galectin 9)	17q11.1	7.68	1.44	0.8	0.38
8170704	NM_000033	Hs.159546	ABCD1	ATP-binding cassette, sub-family D (ALD), member 1	Xq28	7.63	1.43	0.51	0.45
8091141	NM_019001	Hs.435103	XRN1	5'-3' exoribonuclease 1	3q23	9.11	1.43	0.22	1.19
7953993	NM_030766	Hs.210343	BCL2L14	BCL2-like 14 (apoptosis facilitator)	12p13-p12	7.49	1.42	0.47	1.27
7935639	NM_031212	Hs.403790	SLC25A28	solute carrier family 25, member 28	10q23-q24	8.96	1.42	0.92	0.95
8162729	NM_014788	Hs.575631	TRIM14	tripartite motif-containing 14	9q22.33	8.83	1.41	0.98	0.58
8013450	NM_001042685	Hs.656100	LOC284194	galectin-9 like	17p11.2	10.35	1.41	0.69	0.47
8154178	NM_004972	Hs.656213	JAK2	Janus kinase 2 (a protein tyrosine kinase)	9p24	8.31	1.4	0.1	1.85
8078729	NM_002468	Hs.82116	MYD88	myeloid differentiation primary resp. gene (88)	3p22	9.82	1.39	0.67	0.51
8067221	NM_030776	Hs.302123	ZBP1	Z-DNA binding protein 1	20q13.31	6.76	1.38	0.35	0.34
8096808	NM_017918	Hs.234149	CCDC109B	coiled-coil domain containing 109B	4q25	8.81	1.37	0	2.37
8157362	NM_133374	Hs.349208	ZNF618	zinc finger protein 618	9q32	7.1	1.37	0.42	0.52
8092251	NM_021629	Hs.173030	GNB4	guanine nucleotide binding protein (G protein), beta polypeptide 4	3q26.32-q26.33	7.38	1.36	0.23	0.58
8072735	NM_145343	Hs.114309	APOL1	apolipoprotein L, 1	22q13.1	11.16	1.33	0.43	1.78
7947156	NM_145650	Hs.407152	MUC15	mucin 15, cell surface associated	11p14.3	8.09	1.33	0.22	-0.49
7926821	NM_032844	Hs.276905	MASTL	microtubule associated serine/threonine kinase-like	10p12.1	7.94	1.33	0.33	-0.23
8055697	NM_198557	Hs.302442	RBM43	RNA binding motif protein 43	2q23.3	6.47	1.3	0.42	0.22
8107044	NM_022350	Hs.591249	LRAP	leukocyte-derived arginine aminopeptidase	5q15	7.64	1.29	0.55	1.5
8075720	NM_030882	Hs.474740	APOL2	apolipoprotein L, 2	22q12	9.03	1.29	0.24	1.97
8037794	NM_016457	Hs.466987	PRKD2	protein kinase D2	19q13.3	8.46	1.29	0.45	0.48
7929072	NM_012420	Hs.252839	IFIT5	interferon-induced protein with tetratricopeptide repeats 5	10q23.31	9.18	1.28	1	1.55
8157381	NM_133374	Hs.349208	ZNF618	zinc finger protein 618	9q32	6.1	1.28	0.44	0.47
7985777	NM_002201	Hs.459265	ISG20	interferon stimulated exonuclease gene 20kDa	15q26	7.94	1.27	0.63	0.85
7987772	NM_139265	Hs.143703	EHD4	EH-domain containing 4	15q11.1	9.95	1.27	0.28	0.04
8004510	NM_001251	Hs.647419	CD68	CD68 molecule	17p13	9.52	1.27	0.28	-0.13
8113358	NM_005668	Hs.308628	ST8SIA4	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4	5q21	7.62	1.25	-0.1	2.88
8171449	NM_021804	Hs.178098	ACE2	angiotensin I converting enzyme (peptidyl-dipeptidase A) 2	Xp22	7.77	1.25	0.24	0.26
8114010	NM_002198	Hs.436061	IRF1	interferon regulatory factor 1	5q31.1	10	1.25	0.18	3.45
7961120	NM_197947	Hs.143929	CLEC7A	C-type lectin domain family 7, member A	12p13.2	5.83	1.25	0.19	-0.31
8117321	NM_006355	Hs.584851	TRIM38	tripartite motif-containing 38	6p21.3	8.84	1.25	0.49	0.52
8101699	AK092450	---	---	---	---	4.65	1.23	0.58	-0.46
8117458	NM_007048	Hs.191510	BTN3A1	butyrophilin, subfamily 3, member A1	6p22.1	7.26	1.23	0.01	1.41
8015060	NM_019016	Hs.87383	KRT24	keratin 24	17q11.2	6.85	1.23	0.1	-0.39
7940028	NM_000062	Hs.384598	SERPING1	serpin peptidase inhibitor, clade G (C1 inhibitor), member 1, (angioedema, hereditary)	11q12-q13.1	9.13	1.23	0.16	2.74
8014903	NM_001042471	Hs.306777	GSDML	gasdermin-like	17q12	7.78	1.22	0.09	0.91
8125483	NM_000544	Hs.502	TAP2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	6p21.3	9.29	1.22	0.31	1.7
7920531	NM_001111	Hs.12341	ADAR	adenosine deaminase, RNA-specific	1q21.1-2	10.36	1.22	0.77	0.85
8117476	NM_006994	Hs.167741	BTN3A3	butyrophilin, subfamily 3, member A3	6p21.3	7.48	1.22	0.18	1.35

8180034	NM_000544	Hs.502	TAP2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	6p21.3	9.32	1.21	0.32	1.69
8077103	NM_001953	Hs.592212	ECGF1	endothelial cell growth factor 1 (platelet-derived)	22q13	9.76	1.21	0.62	0.97
7914603	NM_153341	Hs.591504	RNF19B	ring finger protein 19B	1p35.1	10.08	1.2	0.35	1.94
8137250	NM_015660	Hs.647071	GIMAP2	GTPase, IMAP family member 2	7q36.1	5.08	1.2	0.22	1.19
8153609	NM_032789	Hs.348609	PARP10	poly(ADP-ribose) polymerase fam. member 10	8q24.3	8.2	1.2	0.64	0.68
7910674	---	---	---	---	---	5.08	1.2	1.38	1.33
8143279	NM_020119	Hs.133512	ZC3HAV1	zinc finger CCCH-type, antiviral 1	7q34	10.34	1.19	1.23	1.35
8178841	NM_018833	Hs.502	TAP2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	6p21.3	9.34	1.19	0.31	1.68
8038225	NM_020904	Hs.9469	PLEKHA4	pleckstrin homology domain contain. Family A (phosphoinositide binding specific) member 4	19q13.33	7.82	1.18	0.49	0.26
8035304	NM_004335	Hs.118110	BST2	bone marrow stromal cell antigen 2	19p13.2	8.88	1.17	0.67	0.62
7917503	NM_018284	Hs.656774	GBP3	guanylate binding protein 3	1p22.2	9.67	1.15	0.23	1.5
8048976	---	---	---	---	---	7.05	1.15	0.56	0.75
7907492	NM_014857	Hs.585378	RABGAP1L	RAB GTPase activating protein 1-like	1q24	7.54	1.14	0.62	0.24
8101429	NM_016619	Hs.546392	PLAC8	placenta-specific 8	4q21.22	8.25	1.14	-0.59	0.44
7975238	NM_020715	Hs.594236	PLEKHH1	pleckstrin homology domain containing, family H (with MyTH4 domain) member 1	14q24.1	9.09	1.13	0.63	0.28
7986789	NM_024490	Hs.659258	ATP10A	ATPase, Class V, type 10A	15q11.2	7.71	1.13	0.41	1.17
7937940	ENST00000380435	---	---	---	---	6.51	1.13	0.29	0.43
8093230	BC033615	Hs.478868	KIAA0226	KIAA0226	3q29	9.19	1.13	0.39	0.26
8087485	NM_003335	Hs.16695	UBE1L	ubiquitin-activating enzyme E1-like	3p21	8.87	1.12	0.37	0.39
8006531	NM_144975	Hs.14691	SLFN5	schlafen family member 5	17q12	11.47	1.12	0.5	0.67
8048926	ENST00000243810	---	---	---	---	8.09	1.12	0.29	0.91
8173848	ENST00000297977	---	HDX	chromosome X open reading frame 43 (CXorf43), mRNA	Xq21.1	6.07	1.12	0.6	0.23
8012841	---	---	---	---	---	4.36	1.11	1.99	1.84
8094240	NM_001775	Hs.479214	CD38	CD38 molecule	4p15	6.04	1.11	-0.02	0.1
8063369	NM_018683	Hs.144949	ZNF313	zinc finger protein 313	20q13.13	10.47	1.11	0.33	0.91
8127778	NM_017633	Hs.10784	FAM46A	family with sequence similarity 46, member A	6q14	9.03	1.1	0.43	0.25
8057959	NM_024989	Hs.229988	PGAP1	GPI deacylase	2q33.1	6.84	1.1	0.04	0.05
7983157	NM_024956	Hs.511175	TMEM62	transmembrane protein 62	15q15.2	8.93	1.09	0.3	0.22
8017262	NM_032043	Hs.532799	BRIP1	BRCA1 interacting protein C-term. helicase 1	17q22-q24	5.69	1.09	0.05	-0.17
8048749	NM_080671	Hs.591620	KCNE4	potassium voltage-gated channel, Isk-related family, member 4	2q36.3	6.15	1.09	0.42	0.82
7979757	NM_015346	Hs.98041	ZFYVE26	zinc finger, FYVE domain containing 26	14q24.1	8.27	1.08	0.2	0.29
8113491	NM_139164	Hs.93842	STARD4	StAR-related lipid transfer (START) domain containing 4	5q22.1	9.08	1.08	0.28	-0.04
8097903	NM_003264	Hs.519033	TLR2	toll-like receptor 2	4q32	7.58	1.07	0.03	0.49
8111739	NM_001465	Hs.370503	FYB	FYN binding protein (FYB-120/130)	5p13.1	7.14	1.07	0.1	0.89
8120967	NM_002526	Hs.153952	NT5E	5'-nucleotidase, ecto (CD73)	6q14-q21	7.56	1.07	0.52	0.32
8061073	---	---	---	---	---	7.16	1.07	0.27	0.2
8097080	NM_133477	Hs.655519	SYNPO2	synaptopodin 2	4q26	6.13	1.06	0.48	0.65
7996027	NM_002996	Hs.531668	CX3CL1	chemokine (C-X3-C motif) ligand 1	16q13	9.35	1.06	0.04	1.85
7904050	NM_020963	Hs.514941	MOV10	Mov10, Moloney leukemia virus 10, homolog	1p13.2	9.52	1.05	0.37	0.64
8063955	NM_007346	Hs.67896	OGFR	opioid growth factor receptor	20q13.3	10.11	1.05	0.49	0.89
7950641	NM_023930	---	KCTD14	potassium channel tetramerisation domain containing 14	11q14.1	8.05	1.05	-0.01	1.32
7907171	NM_003666	Hs.130746	BLZF1	basic leucine zipper nuclear factor 1 (JEM-1)	1q24	9.51	1.04	0.18	-0.06
8127107	---	---	---	---	---	4.71	1.04	0.86	1.05
8041542	NM_138801	Hs.435012	GALM	galactose mutarotase (aldose 1-epimerase)	2p22.1	6.89	1.04	0.04	-0.29
8014257	ENST00000361112	---	---	---	---	6.78	1.03	0.37	0.62
8000574	NM_001042483	Hs.513463	NUPR1	nuclear protein 1	16p11.2	11.97	1.02	-0.12	0.56
8011599	NM_016376	Hs.696087	ANKFY1	ankyrin repeat and FYVE domain containing 1	17p13.3	9.25	1.02	0.59	0.54
8091306	NM_020353	Hs.477869	PLSCR4	phospholipid scramblase 4	3q24	6.21	1.02	0.25	1.61
8094378	NM_018323	Hs.638037	PI4K2B	phosphatidylinositol 4-kinase type 2 beta	4p15.2	8.75	1.01	0.17	0.16
7957510	NM_001037671	Hs.326303	LOC338809	hypothetical protein LOC338809	12q22	6.38	1.01	0.15	0.06
7999423	NM_003745	Hs.50640	SOCS1	suppressor of cytokine signaling 1	16p13.13	7.85	1	0.33	1.88
7981290	NM_004184	Hs.497599	WARS	tryptophanyl-tRNA synthetase	14q32.31	11.57	0.99	-0.18	2.21
8129666	NM_145176	Hs.486508	SLC2A12	solute carrier family 2 (facilitated glucose transporter), member 12	6q23.2	6.02	0.96	0.43	1.33
8125500	NM_004159	Hs.180062	PSMB8	proteasome (prosome, macropain) subunit, beta type, 8 (large multifunctional peptidase 7)	6p21.3	9.73	0.91	0.11	1.02
7897728	NM_018438	Hs.464419	FBXO6	F-box protein 6	1p36.23-p36.11	8.74	0.87	0.32	1.09
8066214	NM_004613	Hs.517033	TGM2	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)	20q12	9.87	0.86	-0.09	1.56

7917528	NM_001085489	Hs.567809	HCG_2028557	hCG2028557	1p22.2	5.22	0.82	0.27	4.41
7917514	---	---	---	---	---	4.84	0.81	0.16	1.9
7958828	NM_006700	Hs.5148	TRAFD1	TRAF-type zinc finger domain containing 1	12q	9.57	0.8	0.03	1.03
7930577	NM_033339	Hs.9216	CASP7	caspase 7, apoptosis-related cysteine peptidase	10q25	10.18	0.79	0.16	1.07
8047403	NM_032977	Hs.5353	CASP10	caspase 10, apoptosis-related cysteine peptidase	2q33-q34	7.23	0.79	0.18	1.24
8123606	ENST00000380726	---	---	---	---	7.66	0.78	0.04	1.03
8018731	NM_024599	Hs.464157	RHBDF2	rhomboid 5 homolog 2 (Drosophila)	17q25.1	7.93	0.76	0.26	1.3
7979269	NM_000161	Hs.86724	GCH1	GTP cyclohydrolase 1 (dopa-responsive dystonia)	14q22.1-q22.2	8.75	0.75	-0.14	1.39
7902850	NM_198460	Hs.254338	GBP6	guanylate binding protein family, member 6	1p22.2	9.94	0.74	0.01	2.46
8117435	NM_007047	Hs.376046	BTN3A2	butyrophilin, subfamily 3, member A2	6p22.1	7.7	0.7	-0.01	1.23
8002133	NM_002801	Hs.9661	PSMB10	proteasome (prosome, macropain) subunit, beta type, 10	16q22.1	8.71	0.7	0.2	1.12
8118455	NM_001002029	Hs.534847	C4B	complement comp. 4B (Childo blood group)	6p21.3	7.51	0.69	0.11	1.2
8179399	NM_007293	Hs.655564	C4A	complement comp. 4A (Rodgers blood group)	6p21.3	7.51	0.69	0.11	1.2
8118409	ENST00000375177	---	C4A	complement comp. 4A (Rodgers blood group)	6p21.3	7.51	0.69	0.11	1.2
8150034	---	---	---	---	---	6.54	0.67	1.12	0.23
8074106	NM_138433	Hs.592211	KLHDC7B	kelch domain containing 7B	22q13.33	8.33	0.67	0.46	1.1
8151447	NM_000880	Hs.591873	IL7	interleukin 7	8q12-q13	5.88	0.66	0.21	1.03
7917548	NM_207398	Hs.591450	GBP7	guanylate binding protein 7	1p22.2	6.36	0.63	0.37	1.01
8090193	BC067235	---	---	---	---	7.95	0.62	0.18	1.01
7931899	NM_172200	Hs.524117	IL15RA	interleukin 15 receptor, alpha	10p15-p14	8.77	0.61	0.18	1.04
8040430	NM_003385	Hs.444212	VSNL1	visinin-like 1	2p24.3	8.31	0.6	-0.1	1.44
8175683	hsa-mir-224	---	---	---	---	6.45	0.6	-0.37	-1.14
8030002	NM_153608	Hs.511883	ZNF114	zinc finger protein 114	19q13.32	5.4	0.56	0.36	1.07
8013536	NM_000625	Hs.434386	NOS2A	nitric oxide synthase 2A (inducible)	17q11.2-q12	7.08	0.53	0.42	3.36
7919971	NM_000449	Hs.695975	RFX5	regulatory factor X, 5 (influences HLA class II expression)	1q21	8.84	0.51	-0.11	1.02
8014233	NM_152270	Hs.462829	SLFN11	schlafen family member 11	17q12	7.53	0.48	0.15	1.15
7967322	NM_006018	Hs.458425	GPR109B	G protein-coupled receptor 109B	12q24.31	7.73	0.48	-0.23	1.07
8047419	NM_001228	Hs.655983	CASP8	caspase 8, apoptosis-related cysteine peptidase	2q33-q34	7.85	0.47	-0.05	1.19
8091600	NM_014996	Hs.567423	PLCH1	phospholipase C, eta 1	3q25.31	6.36	0.47	-0.01	1.4
7903786	NM_000757	Hs.591402	CSF1	colony stimulating factor 1 (macrophage)	1p21-p13	8.21	0.44	0.08	1.01
8072108	NM_020437	Hs.567547	ASPHD2	aspartate β-hydroxylase domain containing 2	22q12.1	7.57	0.41	0.15	1.03
7981011	---	---	---	---	---	5.51	0.41	1.13	1.14
8040365	NM_021643	Hs.467751	TRIB2	tribbles homolog 2 (Drosophila)	2p25.1-p24.3	8.48	0.38	0.01	1.24
8037422	NM_001031749	Hs.44289	LYPD5	LY6/PLAUR domain containing 5	19q13.31	7.14	0.36	0.17	1.05
8026971	NM_006332	Hs.14623	IFI30	interferon, gamma-inducible protein 30	19p13.1	10.63	0.36	-0.18	1.28
8021470	NM_021127	Hs.96	PMAIP1	phorbol-12-myristate-13-acetate-induced prot. 1	18q21.32	8.54	0.29	-0.13	1.46
8121257	NM_001198	Hs.436023	PRDM1	PR domain containing 1, with ZNF domain	6q21-q22.1	8.11	0.28	-0.06	1.38
7991224	NM_178232	Hs.447530	HAPLN3	hyaluronan and proteoglycan link protein 3	15q26.1	7.82	0.28	0.01	2.26
7997712	NM_002163	Hs.137427	IRF8	interferon regulatory factor 8	16q24.1	6.18	0.27	0.06	2.26
7960744	NM_001733	Hs.524224	C1R	complement component 1, r subcomponent	12p13	8.76	0.22	-0.02	1.24
8101118	NM_002416	Hs.77367	CXCL9	chemokine (C-X-C motif) ligand 9	4q21	4.84	0.2	0.14	5.5
8105411	NM_139017	Hs.55378	IL31RA	interleukin 31 receptor A	5q11.2	5.82	0.19	0.05	1.69
8147206	NM_003821	Hs.103755	RIPK2	receptor-interacting serine-threonine kinase 2	8q21	8.27	0.19	-0.15	2.08
8006433	NM_002982	Hs.303649	CCL2	chemokine (C-C motif) ligand 2	17q11.2-12	5.38	0.18	-0.17	2.09
7993195	NM_000246	Hs.126714	CIITA	class II, major histocompatibility complex, transactivator	16p13	7.58	0.18	0.13	1.09
8060997	NM_018327	Hs.425023	SPTLC3	serine palmitoyltransferase, long chain base subunit 3	20p12.1	6.84	0.18	0.14	1.01
7931951	NM_001029880	Hs.407983	SFMBT2	Scm-like with four mbt domains 2	10p14	6.48	0.17	0.05	1.04
8082965	NM_012219	Hs.527021	MRAS	muscle RAS oncogene homolog	3q22.3	7.26	0.17	0.01	1.16
7998637	NM_016332	Hs.655346	SEPX1	selenoprotein X, 1	16p13.3	9.87	0.17	-0.13	1.88
8146863	NM_015170	Hs.409602	SULF1	sulfatase 1	8q13.2-3	6.46	0.16	-0.07	1.69
8018864	NM_003955	Hs.527973	SOCS3	suppressor of cytokine signaling 3	17q25.3	7.61	0.14	0.04	1.05
8099240	---	---	---	---	---	5.67	0.13	-1.24	0.25
8070584	NM_024022	Hs.208600	TMPRSS3	transmembrane protease, serine 3	21q22.3	6.61	0.13	0.07	1.46
8057578	NM_005795	Hs.470882	CALCRL	calcitonin receptor-like	2q32.1	5.14	0.12	-0.1	1.01
8100393	NM_002253	Hs.479756	KDR	kinase insert domain receptor (a type III receptor tyrosine kinase)	4q11-q12	5.39	0.06	-0.15	1.12
8125530	NM_002118	Hs.654428	HLA-DMB	major histocompatibility complex, class II, DMβ	6p21.3	8.62	0.05	-0.16	1.04
7996908	NM_006750	Hs.461117	SNTB2	syntrophin, beta 2 (dystrophin-	16q22-q23	8.84	0.04	0.02	1.08

				associated protein A1, 59kDa, basic component 2)					
7981273	AK123840	Hs.653294	C14ORF65	chromosome 14 open reading frame 65	14q32.31	8.23	0.03	-0.16	1.12
8132406	NM_005402	Hs.6906	RALA	v-ral simian leukemia viral oncogene homolog A (ras related)	7p15-p13	9.05	0.02	-0.2	1.02
8023401	NM_025214	Hs.120790	CCDC68	coiled-coil domain containing 68	18q21	6.29	0.01	-0.28	1.25
7992828	NM_001012631	Hs.943	IL32	interleukin 32	16p13.3	8.05	-0.04	-0.06	1.32
8146967	NM_031461	Hs.436542	CRISPLD1	cysteine-rich secretory protein LCCL domain containing 1	8q21.11	5.94	-0.06	0.04	1.18
8102362	NM_052864	Hs.310640	TIFA	TRAF-interacting protein with a forkhead-associated domain	4q25	7.33	-0.11	-0.08	1.1
8158059	NM_003165	Hs.288229	STXBP1	syntaxin binding protein 1	9q34.1	8.46	-0.12	0.05	1
7964834	NM_001005502	Hs.654387	CPM	carboxypeptidase M	12q14.3	8.75	-0.13	0.15	1.01
8056491	NM_002977	Hs.439145	SCN9A	sodium channel, voltage-gated, type IX, α sub.	2q24	6.19	-0.15	-0.09	1
8025601	NM_000201	Hs.643447	ICAM1	intercellular adhesion molecule 1 (CD54), human rhinovirus receptor	19p13.3-p13.2	9.36	-0.15	-0.37	3.02
8097692	NM_001957	Hs.183713	EDNRA	endothelin receptor type A	4q31.23	7.57	-0.16	-0.2	2.4
8017867	NM_017565	Hs.268874	FAM20A	family with sequence similarity 20, member A	17q24.2	6.77	-0.16	0.11	1.6
8083469	---	---	---	---	---	5.52	-0.18	-1.03	-0.42
8161444	---	---	---	---	---	4.74	-0.23	-1.09	-0.91
7934997	NM_005398	Hs.303090	PPP1R3C	protein phosphatase 1, regulatory (inhibitor) subunit 3C	10q23-q24	8.49	-0.27	-0.09	-1.03
8174226	---	---	---	---	---	5.45	-0.28	-0.05	-1.1
8019643	NM_003585	Hs.648240	DOC2B	double C2-like domains, beta	17p13.3	8.09	-0.31	-0.04	1.35
8107673	NM_023927	Hs.363558	GRAMD3	GRAM domain containing 3	5q23.2	8.89	-0.36	-0.34	1.24
8178295	NM_006398	Hs.44532	UBD	ubiquitin D	6p21.3	7.31	-0.38	-0.48	2.86
8124650	NM_006398	Hs.44532	UBD	ubiquitin D	6p21.3	7.28	-0.38	-0.44	2.87
8043697	NM_025190	Hs.532921	KIAA1641	KIAA1641	2q11.2	7.24	-0.44	-0.33	-1.02
8053801	AK123626	Hs.646318	LOC400986	protein immuno-reactive with anti-PTH polyclonal antibodies	2q11.2	8.24	-0.46	-0.25	-1.13
7950810	NM_206927	Hs.369520	SYTL2	synaptotagmin-like 2	11q14	6.76	-0.47	-0.34	-1.04
7981960	NR_003321	---	SNORD116-6	small nucleolar RNA, C/D box 116-6	15q11.2	5.61	-0.5	-1.06	-0.4
8103769	NM_000860	Hs.655491	HPGD	hydroxyprostaglandin dehydrogenase 15-(NAD)	4q34-q35	7.93	-0.51	-0.1	-1.16
8112980	NM_005711	Hs.482730	EDIL3	EGF-like repeats and discoidin I-like domains 3	5q14	6.3	-0.59	-1.04	-0.36
8101952	NM_145244	Hs.480378	DDIT4L	DNA-damage-inducible transcript 4-like	4q23	7.94	-0.62	-0.07	-1.16
8089568	NM_138806	Hs.309158	CD200R1	CD200 receptor 1	3q13.2	6.42	-0.62	-0.45	-1.03
8103094	NM_000901	Hs.163924	NR3C2	nuclear receptor subfamily 3 group C member 2	4q31.1	8.52	-0.7	-0.4	-1.03
8084878	---	---	---	---	---	5.52	-0.71	-0.59	-1.26
8064098	---	---	---	---	---	5.09	-0.74	-0.41	-1.02
7981943	NR_001294	Hs.564847	SNORD64	small nuclear ribonucleoprotein polypeptide N // Prader-Willi/Angelman syndrome-5 // small nucleolar RNA, C/D box 64 // paternally expressed transcript PAR-SN	15q11-q13	4.16	-0.87	-0.39	-1.08
7909789	NM_003238	Hs.133379	TGFB2	transforming growth factor, beta 2	1q41	8.68	-0.89	-0.31	-1.39
7972239	NM_032229	Hs.525105	SLITRK6	SLIT and NTRK-like family, member 6	13q31.1	6.76	-0.95	-0.76	-1.59
7907271	NM_001460	Hs.144912	FMO2	flavin containing monooxygenase 2 (non-functional)	1q23-q25	6.54	-0.95	-0.44	-1.2
8106516	NM_152405	Hs.482605	JMY	junction-mediating and regulatory protein	5q14.1	7.49	-1	-0.53	-0.15
8065071	NM_198391	Hs.41296	FLRT3	fibronectin leucine rich transmembrane prot. 3	20p11	6.92	-1.01	-0.53	-1.47
8165667	NC_001807	---	---	---	---	9.46	-1.02	-0.45	0.07
7896752	NC_001807	---	---	---	---	9.46	-1.02	-0.45	0.07
8121749	NM_000165	Hs.74471	GJA1	gap junction protein, alpha 1, 43kDa	6q21-q23.2	8.8	-1.06	-0.51	-0.52
7911329	BC131690	---	---	---	---	6.92	-1.06	-0.42	-0.1
8113356	ENST00000388663	---	---	---	---	4.34	-1.07	-1.44	-0.6
8102800	NM_014331	Hs.390594	SLC7A11	solute carrier family 7, (cationic amino acid transporter, y+ system) member 11	4q28-q32	8.92	-1.08	-0.9	-0.42
7967386	NM_022782	Hs.577404	MPHOSPH9	M-phase phosphoprotein 9	12q24.31	6.65	-1.09	-0.34	-0.56
7965359	NM_001001323	Hs.506276	ATP2B1	ATPase Ca++ transporting plasma membr. 1	12q21.3	8.66	-1.1	-0.38	-0.65
8176276	NM_138270	Hs.533526	ATRX	alpha thalassemia/mental retardation syndrome X-linked (RAD54 homolog, S. cerevisiae)	Xq13.1-q21.1	6.98	-1.11	-0.53	-0.86
7970392	GENSCAN 00000064825	---	---	---	---	6.79	-1.14	-1.05	-0.37
8099612	NM_145290	Hs.99195	GPR125	G protein-coupled receptor 125	4p15.31	7.64	-1.16	-0.25	-0.64
7896750	NC_001807	---	---	---	---	4.81	-1.26	-1.26	-0.79
8100310	GENSCAN 00000033673	---	---	---	---	6.23	-1.37	-0.95	-0.07

7973900	NR_002937	Hs.639271	C14ORF19	chromosome frame 19	14	open	reading	14q13	4.65	-1.43	-0.3	-0.26
8165663	NC_001807	---	---	---				---	5.12	-1.52	-1.35	-0.8
8165672	NC_001807	---	---	---				---	6.94	-1.73	-1.05	-0.02