			GEArray™ S series Human Autoimmune and Inflammatory Complete List of Genes	GEArray™ S series Human Autoimmune and Inflammatory Response Gene Array (SuperArray Bioscience) Genes with HuR motifs				
ID	UNIGENE GB_ACC	Symbol of plate NMs 10-29-10	Description Gene name	Description Gene name	Symbol of HuR hits 10-28-10	GeneID	Score	No. of M Motif Position
266	528635		OPRD1					
154	121150	L15344	DKFZp451J0118					
238	366 AF067420	MGC27165	Hypothetical protein MGC27165					
5	410104	NM_000020	ACVRL1					
6	19383	NM_000029	AGT Angiotensinogen (serine (or cysteine) proteinase inhibitor, clade A	Angiotensinogen (serpin peptidase inhibitor, clade A, member 8)	AGT	183	0.42	1 1865-1881(0.42)
20	284394	NM_000064	C3					
59	2259	NM_000073	CD3G					
73	172928	NM_000088	COL1A1	Collagen, type I, alpha 1	COL1A1	1277	0.42	3 4642-4658(0.42) 5493-5508(0.29) 5552-5568(0.01)
74	232115	NM_000089	COL1A2	Collagen, type I, alpha 2	COL1A2	1278	2.42	2 4448-4464(2.42) 5013-5029(0.42)
75	443625	NM_000090	COL3A1	Collagen, type III, alpha 1	COL3A1	1281	2.42	2 5007-5023(0.01) 5099-5115(2.42)
102	76753	NM_000118	ENG Endoglin (Osler-Rendu-Weber syndrome 1) Endoglin					
127	386467	NM_000201	ICAM1	Intercellular adhesion molecule 1	ICAM1	3383	0.42	3 1915-1930(0.29) 2735-2750(0.12) 2892-2908(0.42)
174	84	NM_000206	IL2RG					
198	210387	NM_000215	JAK3					
207	194236	NM_000230	LEP Leptin (obesity homolog, mouse) Leptin	Leptin	LEP	3952	0.42	3 1518-1534(0.42) 3054-3070(0.42) 3379-3395(0.42)
239	126714	NM_000246	MHC2TA	Class II, major histocompatibility complex, transactivator	CIITA	4261	0.42	2 4600-4616(0.42) 5487-5503(0.42)
285	105656	NM_000331	SCYE1					
315	28005	NM_000358	TGFBR1	Transforming growth factor, beta-induced, 68kDa	TGFBI	7045	0.83	2 662-678(0.83) 2536-2552(0.42)
65	370771	NM_000389	CDKN1A	Cyclin-dependent kinase inhibitor 1A (p21, Cip1)	CDKN1A	1026	1.42	2 1034-1050(1.42) 2109-2125(0.42)
98	1395	NM_000399	EGR2	Early growth response 2	EGR2	1959	1	4 137-153(0.83) 2436-2452(1.00) 2748-2764(0.83) 2766-2781(0.29)
172	130058	NM_000417	IL2RA	Interleukin 2 receptor, alpha	IL2RA	3559	1.01	1 347-363(1.01)
177	75545	NM_000418	IL4R					
288	82848	NM_000450	SELL	Selectin L	SELL	6402	3.42	4 2251-2267(0.83) 2764-2780(3.42) 3643-3658(0.29) 3722-3738(0.42)
7	112432	NM_000479	AMH Anti-Mullerian hormone					
179	68876	NM_000564	IL5RA					
181	193400	NM_000565	IL6R	Interleukin 6 receptor	IL6R	3570	5	2 1167-1183(1.42) 2871-2887(5.00)
108	372679	NM_000569	FCGR3A	Fc fragment of IgG, low affinity IIIa, receptor (CD16a)	FCGR3A	2214	0.42	1 2022-2038(0.42)
142	193717	NM_000572	IL10	Interleukin 10	IL10	3586	0.71	3 815-831(0.42) 1171-1186(0.71) 1609-1625(0.01)
164	1722	NM_000575	IL1A	Interleukin 1, alpha	IL1A	3552	1	2 1324-1340(1.00) 2400-2415(0.29)
165	126256	NM_000576	IL1B					
52	54443	NM_000579	CCR5	Chemokine (C-C motif) receptor 5	CCR5	1234	1.55	3 1835-1850(0.29) 3145-3161(0.42) 3583-3598(1.55)
184	624	NM_000584	IL8 Interleukin 8	Interleukin 8	IL8	3576	3.42	2 734-750(0.01) 1149-1165(3.42) CXCL8 IL-8
168	89679	NM_000586	IL2 Interleukin 2	Interleukin 2	IL2	3558	3.42	4 159-175(0.42) 432-448(0.42) 816-832(3.42) 952-968(0.42)
175	694	NM_000588	IL3 Interleukin 3 (colony-stimulating factor, multiple) IL-3					
176	73917	NM_000589	IL4 Interleukin 4	Interleukin 4	IL4	3565	0.42	1 91-107(0.42) human IL-4
187	960	NM_000590	IL9 Interleukin 9	Interleukin 9	IL9	3578	0.88	3 275-291(0.42) 451-467(0.42) 575-590(0.88)
331	211600	NM_000594	TNFAIP3 Tumor necrosis factor, alpha-induced protein 3	Tumor necrosis factor (TNF superfamily, member 2)	TNF	7124	2.42	1 1331-1347(2.42)
208	36	NM_000595	LTA Lymphotoxin alpha (TNF superfamily, member 1)					
137	450230	NM_000598	IGFBP3	Insulin-like growth factor binding protein 3	IGFBP3	3486	2.42	4 1075-1091(0.01) 1131-1147(0.42) 1846-1862(0.42) 2414-2430(2.42)
180	512234	NM_000600	IL6 Interleukin 6 (interferon, beta 2)	Interleukin 6 (interferon, beta 2)	IL6	3569	4	4 825-841(0.83) 879-895(4.00) 968-984(0.42) 1072-1088(3.00)
291	184510	NM_000602	SFN Stratifin	Serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	SERPINE1	5054	0.42	5 1670-1686(0.42) 1935-1951(0.42) 2121-2137(0.42) 2762-2777(0.29) 2803-2819(0.01) SERPINE1 serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1
267	278388	NM_000607	ORM2					
268	528636	NM_000608	P2RX7					
89	436042	NM_000609	CXCL12	Chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1)	CXCL12	6387	0.42	5 1081-1097(0.42) 1513-1529(0.42) 2010-2026(0.42) 2051-2067(0.25) 3243-3259(0.42)
246	78792	NM_000615	NCAM1					
136	308053	NM_000618	IGF1	Insulin-like growth factor 1 (somatomedin C)	IGF1	3479	3.42	12 2218-2234(2.42) 2687-2703(0.42) 2833-2849(0.83) 3556-3571(0.71) 3863-3879(1.42) 4494-4509(0.71) 5006-5022(0.42) 5174-5190(1.00) 5932-5948(0.83) 6662-6678(0.42) 7069-7085(3.42) 7152-7168(1.42)
135	856	NM_000619	IFNG	Interferon, gamma	IFNG	3458	0.83	3 631-647(0.42) 673-689(0.01) 730-746(0.83) human IFNg
262	193788	NM_000625	NOS2A	Nitric oxide synthase 2, inducible	NOS2	4843	0.42	1 277-293(0.42)
144	418291	NM_000628	IL10RB	Interleukin 10 receptor, beta	IL10RB	3588	2.42	2 1322-1338(2.42) 1864-1880(1.42)
13	79241	NM_000633	BCL2	B-cell CLL/lymphoma 2	BCL2	596	3.42	14 806-822(0.83) 963-979(0.42) 1456-1472(0.25) 1545-1560(0.29) 2248-2264(0.42) 2401-2417(1.42) 2831-2847(0.01) 3216-3232(0.01) 3257-3273(0.42) 3706-3722(0.25) 4184-4200(3.42) 5047-5063(0.01) 5114-5130(1.42) 5937-5953(0.42)
185	194778	NM_000634	IL8RA	Chemokine (C-X-C motif) receptor 1	CXCR1	3577	1.01	1 1415-1431(1.01)
343	89862	NM_000639	TRADD	Fas ligand (TNF superfamily, member 6)	FASLG	356	2.42	3 967-983(0.01) 1790-1805(0.29) 1812-1828(2.42)
153	336046	NM_000640	IL13RA2 Interleukin 13 receptor, alpha 2	Interleukin 13 receptor, alpha 2	IL13RA2	3598	2.42	2 142-158(2.42) 1060-1076(2.42)
145	1721	NM_000641	IL11	Interleukin 11	IL11	3589	0.42	2 1555-1571(0.42) 2243-2258(0.12)
49	511794	NM_000648	CCR2	Data not found			2	3 1741-1757(0.25) 1914-1930(0.42) 1957-1973(2.00)
289	423077	NM_000655	SELPLG	Selectin L	SELL	6402	1.42	3 633-649(0.42) 1480-1496(1.42) 2277-2293(0.42)
311	25511	NM_000660	TGFB1I1 Transforming growth factor beta 1 induced transcript 1					
58	3003	NM_000733	CD3E					
60	97087	NM_000734	CD3Z					
78	173894	NM_000757	CSF1					
79	1349	NM_000758	CSF2	Colony stimulating factor 2 (granulocyte-macrophage)	CSF2	1437	0.42	1 713-729(0.42)
80	2233	NM_000759	CSF3	Colony stimulating factor 3 (granulocyte)	CSF3	1440	0.29	1 700-715(0.29)
128	433303	NM_000873	ICAM2					
166	82112	NM_000877	IL1R1	Interleukin 1 receptor, type I	IL1R1	3554	2	5 361-377(0.42) 720-736(0.42) 985-1001(1.42) 1339-1355(2.00) 3953-3969(0.42)
173	75596	NM_000878	IL2RB	Interleukin 2 receptor, beta	IL2RB	3560	1.01	2 3556-3572(1.00) 3905-3921(1.01)
178	2247	NM_000879	IL5 Interleukin 5 (colony-stimulating factor, eosinophil)	Interleukin 5 (colony-stimulating factor, eosinophil)	IL5	3567	1.29	2 723-739(0.25) 776-793(1.29)
183	72927	NM_000880	IL7 Interleukin 7	Interleukin 7	IL7	3574	0.42	2 791-805(0.01) 1099-1115(0.42)
147	673	NM_000882	IL12A	Interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1,	IL12A	3592	0.84	3 1134-1150(0.42) 1350-1368(0.39) 1387-1403(0.84)
193	1741	NM_000889	ITGB7	Integrin, beta 7	ITGB7	3695	1.83	1 2246-2262(1.83)
265	372	NM_000911	Opioid receptor, delta 1					
276	444324	NM_000945	PTPRC	Protein phosphatase 3 (formerly 2B), regulatory subunit B, alpha isoform	PPP3R1	5534	1.88	2 1515-1530(1.88) 2290-2306(1.42)
335	159651	NM_001066	TNFRSF21					
357	73793	NM_001078	VEGF	Vascular cell adhesion molecule 1	VCAM1	7412	1.42	5 449-465(0.42) 1031-1047(0.42) 2843-2858(0.88) 3038-3055(0.29) 3064-3080(1.42)
1	150402	NM_001105	ACVR1	Activin A receptor, type I	ACVR1	90	3	5 1516-1532(0.42) 1869-1885(0.83) 2566-2582(0.25) 2656-2672(3.00) 2820-2836(2.42)
4	23994	NM_001106	ACVR2B					
18	87223	NM_001203	BMPR1B					
19	53250	NM_001204	BMPR2	Bone morphogenetic protein receptor, type II (serine/threonine kinase)	BMPR2	659	3.42	1 3546-3562(3.42)
25	321572	NM_001220	CAMK2B	Calcium/calmodulin-dependent protein kinase II beta	CAMK2B	816	0.42	1 2341-2357(0.42)
337	1314	NM_001242	TNFRSF8 Tumor necrosis factor receptor superfamily, member 8	CD27 molecule	CD27	939	5	1 789-805(5.00)
338	528403	NM_001243	TNFRSF9 Tumor necrosis factor receptor superfamily, member 9	Tumor necrosis factor receptor superfamily, member 8	TNFRSF8	943	0.25	2 1399-1415(0.25) 2268-2284(0.25)
70	198998	NM_001278	CHUK	Conserved helix-loop-helix ubiquitous kinase	CHUK	1147	2	9 888-904(0.01) 1246-1262(2.00) 1313-1328(0.29) 2386-2402(0.42) 2999-3015(0.01) 3049-3065(1.83) 3481-3497(0.83) 3505-3519(1.42) 3545-3561(1.42)
9	418710	NM_001283	AP1S1					
48	301921	NM_001295	CCR1	Chemokine (C-C motif) receptor 1	CCR1	1230	0.71	1 1618-1635(0.71)
230	79107	NM_001315	MAPK14	Mitogen-activated protein kinase 14	MAPK14	1432	1	1 3659-3675(1.00)
82	73527	NM_001320	CSNK2B					
85	78913	NM_001337	CX3CR1	Chemokine (C-X3-C motif) receptor 1	CX3CR1	1524	0.29	1 2963-2978(0.29)
103	271730	NM_001429	EP300	E1A binding protein p300	EP300	2033	2	4 8644-8660(1.42) 8818-8834(2.00) 8968-8984(0.01) 9025-9041(0.84)
86	789	NM_001511	CXCL1	Chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)	CXCL1	2919	1.42	4 695-711(1.42) 850-866(0.42) 887-903(0.25) 974-990(1.42) CXCL1 Gro-a
130	512159	NM_001544	ICAM4					
186	846	NM_001557	IL8RB	Chemokine (C-X-C motif) receptor 2	CXCR2	3579	0.13	1 2668-2683(0.13)
143	327	NM_001558	IL10RA	Interleukin 10 receptor, alpha	IL10RA	3587	0.42	1 3617-3633(0.42)

150	413608	NM_001559	IL12RB2 Interleukin 12 receptor, beta 2 IL-12Rb2	Interleukin 12 receptor, beta 2	IL12RB2	3595	1.42	3	2484-2500(1.42) 3390-3405(0.29) 3774-3790(0.83)
152	285115	NM_001560	IL13RA1 Interleukin 13 receptor, alpha 1	Interleukin 13 receptor, alpha 1	IL13RA1	3597	1	4	1332-1348(0.42) 1770-1786(0.42) 3596-3612(1.00) 3878-3894(0.42)
339	333791	NM_001561	TNFSF11 Tumor necrosis factor (ligand) superfamily, member 11						
160	83077	NM_001562	IL18	Interleukin 18 (interferon-gamma-inducing factor)	IL18	3606	1.25	2	728-744(1.25) 766-782(0.01)
87	413924	NM_001565	CXCL10						
189	182018	NM_001569	IRAK1						
190	424542	NM_001570	IRAK2						
3	389846	NM_001616	ACVR2	Activin A receptor, type IIA	ACVR2A	92	2	5	456-472(0.42) 631-645(0.42) 1780-1796(1.01) 2122-2138(2.00) 2168-2184(0.42)
15	69771	NM_001710	BF	Complement factor B	CFB	629	0.83	1	1439-1455(0.83)
16	113916	NM_001716	BLR1	Chemokine (C-X-C motif) receptor 5	CXCR5	643	3	1	2682-2698(3.00)
23	425808	NM_001743	CALM2	Calmodulin 2 (phosphorylase kinase, delta)	CALM2	805	0.42	1	1090-1106(0.42)
26	440638	NM_001744	CAMK4	Calcium/calmodulin-dependent protein kinase IV	CAMK4	814	0.83	3	411-427(0.25) 932-948(0.42) 1827-1843(0.83)
283	122116	NM_001754	RUNX2	Runt-related transcription factor 1	RUNX1	861	1.42	13	243-258(0.88) 2413-2429(0.83) 2518-2534(0.42) 2552-2568(1.42) 2577-2593(0.42) 2684-2700(1.42) 3598-3613(0.29) 3630-3646(1.42) 5064-5080(0.42) 5149-5164(0.71) 5236-5252(0.42) 5297-5313(1.42) 5413-5429(0.42)
61	82401	NM_001781	CD69	CD69 molecule	CD69	969	2.42	6	373-389(0.42) 649-665(0.42) 964-979(0.29) 1011-1027(2.42) 1126-1142(0.42) 1511-1527(2.42)
64	1634	NM_001789	CDC25A						
50	506190	NM_001837	CCR3						
54	1652	NM_001838	CCR7						
72	75110	NM_001840	CNR1						
11	80285	NM_001880	ATF2	Activating transcription factor 2	ATF2	1386	1.39	6	269-285(0.42) 918-934(0.42) 1876-1894(1.39) 1902-1917(0.29) 1945-1960(0.13) 2044-2059(1.29)
81	446484	NM_001895	CSNK2A1 Casein kinase 2, alpha 1 polypeptide	Casein kinase 2, alpha 1 polypeptide	CSNK2A1	1457	1.42	3	922-937(0.29) 1710-1726(0.42) 2170-2186(1.42)
97	326035	NM_001964	EGR1						
106	897	NM_002001	FCER1A	Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide	FCER1A	2205	1	2	896-912(0.01) 1020-1036(1.00) FcεR alpha chain
107	1416	NM_002002	FCER2						
109	284244	NM_002006	FGF2	Fibroblast growth factor 2 (basic)	FGF2	2247	5	16	1530-1546(0.42) 2211-2226(0.29) 2257-2272(0.88) 2376-2390(1.42) 3190-3206(5.00) 3316-3332(3.42) 3719-3735(0.42) 3761-3777(0.42) 4332-4348(0.01) 4457-4473(0.42) 4722-4738(1.42) 4820-4836(0.42) 5744-5759(0.29) 6061-6077(1.00) 6311-6327(2.42) 6506-6522(1.00)
116	169946	NM_002051	GATA3	GATA binding protein 3	GATA3	2625	0.8	3	291-305(0.42) 2151-2169(0.80) 2313-2327(0.01) GATA-3 Transcript Variant 2 also GC NRO bud/dmso score -1.2
117	243987	NM_002052	GATA4	GATA binding protein 4	GATA4	2626	1.25	4	344-360(0.42) 369-385(1.25) 3045-3061(0.01) 3303-3317(0.01)
91	75765	NM_002089	CXCL2	Chemokine (C-X-C motif) ligand 2	CXCL2	2920	1.42	4	589-605(1.42) 693-709(1.42) 885-901(0.25) 1008-1024(0.42)
92	89690	NM_002090	CXCL3	Chemokine (C-X-C motif) ligand 3	CXCL3	2921	1	2	584-600(0.42) 665-681(1.00)
124	282359	NM_002093	GSK3B	Glycogen synthase kinase 3 beta	GSK3B	2932	0.83	3	62-77(0.29) 432-448(0.83) 1282-1297(0.29)
129	353214	NM_002162	ICAM3						
134	93177	NM_002176	IFNB1	Interferon, beta 1, fibroblast	IFNB1	3456	1.42	2	683-699(1.42) 721-737(1.42)
182	71968	NM_002184	IL6ST	Interleukin 6 signal transducer (gp130, oncostatin M receptor)	IL6ST	3572	1	3	227-243(0.83) 432-448(1.00) 1372-1388(0.42)
188	406228	NM_002186	IL9R						
148	674	NM_002187	IL12B	Interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2,	IL12B	3593	1.42	3	496-512(1.42) 1291-1306(0.29) 2221-2237(0.01)
151	845	NM_002188	IL13	Interleukin 13	IL13	3596	0.83	2	1130-1146(0.83) 1236-1252(0.42) IL-13
156	12503	NM_002189	IL15RA	Interleukin 15 receptor, alpha	IL15RA	3601	1.42	2	1534-1550(1.42) 1590-1606(0.42)
158	41724	NM_002190	IL17	Interleukin 17A	IL17A	3605	1.42	3	766-782(0.42) 877-893(1.42) 1266-1282(1.42)
191	80645	NM_002198	IRF1						
192	149846	NM_002213	ITGB5	Integrin, beta 5	ITGB5	3693	0.83	3	2553-2569(0.83) 3121-3137(0.42) 3225-3240(0.29)
196	436004	NM_002227	JAK1	Janus kinase 1	JAK1	3716	1.42	2	146-161(0.71) 933-949(1.42)
199	78465	NM_002228	JUN V-jun sarcoma virus 17 oncogene homolog (avian) V-jun	Jun oncogene	JUN	3725	2.42	3	2348-2364(2.42) 2481-2496(1.29) 2502-2516(1.01)
200	25292	NM_002229	JUNB	Jun B proto-oncogene	JUNB	3726	0.42	2	1534-1550(0.42) 1777-1793(0.42)
203	182971	NM_002269	KPNA5	Karyopherin alpha 5 (importin alpha 6)	KPNA5	3841	0.42	1	1328-1344(0.42)
204	113503	NM_002271	KPNB3	Importin 5	IPO5	3843	5	9	589-605(5.00) 2428-2444(0.42) 3773-3789(0.42) 3869-3885(0.83) 3901-3917(1.42) 4724-4740(2.00) 5114-5130(0.01) 5134-5150(0.01) 5684-5700(2.00)
205	409523	NM_002286	LAG3						
209	376208	NM_002341	LTB Lymphotoxin beta (TNF superfamily, member 3)	Lymphotoxin beta (TNF superfamily, member 3)	LTB	4050	1.42	1	834-850(1.42)
212	1116	NM_002342	LTBR						
234	42712	NM_002382	MAX MAX protein Max	MYC associated factor X	MAX	4149	0.88	1	787-802(0.88)
240	407995	NM_002415	MIF Macrophage migration inhibitory factor (glycosylation-inhibiting factor)						
241	202453	NM_002467	MYC V-myc myelocytomatosis viral oncogene homolog (avian)	V-myc myelocytomatosis viral oncogene homolog (avian)	MYC	4609	0.42	2	1983-1999(0.42) 2103-2119(0.42)
242	82116	NM_002468	MYD88	Myeloid differentiation primary response gene (88)	MYD88	4615	1	1	1045-1061(1.00)
254	73090	NM_002502	NFKB2						
256	9731	NM_002503	NFKBIB						
263	219140	NM_002521	NPPB	Natriuretic peptide precursor B	NPPB	4879	0.42	1	628-644(0.42)
269	64056	NM_002562	PAK1						
270	1976	NM_002576	PDGFB	P21 protein (Cdc42/Rac)-activated kinase 1	PAK1	5058	0.42	2	849-863(0.42) 1408-1424(0.42)
271	386532	NM_002608	PIN1	Platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog)	PDGFB	5155	2.42	2	3291-3307(0.01) 3340-3356(2.42)
273	187543	NM_002658	PPP3CB	Plasminogen activator, urokinase	PLAU	5328	1	2	2225-2241(1.00) 2251-2266(0.29)
232	445864	NM_002750	MAPK8	Mitogen-activated protein kinase 8	MAPK8	5599	1.42	1	643-659(1.42)
233	348446	NM_002752	MAPK9	Mitogen-activated protein kinase 9	MAPK9	5601	0.01	1	1895-1911(0.01)
229	25209	NM_002753	MAPK10	Mitogen-activated protein kinase 10	MAPK10	5602	2.42	2	963-979(2.42) 1915-1931(2.42)
277	257266	NM_002838	RAF1	Protein tyrosine phosphatase, receptor type, C	PTPRC	5788	2.42	7	362-378(0.83) 794-810(1.42) 1120-1136(0.42) 2722-2737(1.29) 3823-3839(0.42) 4752-4768(1.00) 4845-4861(2.42)
278	44313	NM_002880	REL V-rel reticuloendotheliosis viral oncogene homolog (avian)	V-raf-1 murine leukemia viral oncogene homolog 1	RAF1	5894	0.42	2	1760-1776(0.01) 2952-2968(0.42)
279	132594	NM_002908	RELA	V-rel reticuloendotheliosis viral oncogene homolog (avian)	REL	5966	1.42	4	1747-1763(0.01) 2047-2062(1.29) 2127-2143(1.42) 2165-2180(0.29) c-Rel
27	72918	NM_002981	CCL1						
36	303649	NM_002982	CCL2	Chemokine (C-C motif) ligand 2	CCL2	6347	2.42	4	455-471(1.01) 492-508(2.00) 524-540(0.42) 573-589(2.42)
43	73817	NM_002983	CCL3	Chemokine (C-C motif) ligand 3	CCL3	6348	1.83	2	515-530(0.29) 547-563(1.83)
44	75703	NM_002984	CCL4						
45	489044	NM_002985	CCL5						
28	54460	NM_002986	CCL11	Chemokine (C-C motif) ligand 11	CCL11	6356	1.42	2	562-578(1.42) 630-646(1.42) CCL11 eotaxin-1
33	66742	NM_002987	CCL17						
34	16530	NM_002988	CCL18	Chemokine (C-C motif) ligand 18 (pulmonary and activation-regulated)	CCL18	6362	1	1	509-525(1.00)
38	57907	NM_002989	CCL21	Chemokine (C-C motif) ligand 21	CCL21	6366	3	1	824-840(3.00)
39	97203	NM_002990	CCL22	Chemokine (C-C motif) ligand 22	CCL22	6367	2.29	4	895-910(2.29) 1353-1369(0.42) 1677-1693(0.42) 2027-2043(1.42) CCL22 MDC
41	247838	NM_002991	CCL24	Chemokine (C-C motif) ligand 24	CCL24	6369	0.84	1	100-116(0.84)
94	164021	NM_002993	CXCL6	Chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)	CXCL6	6372	1.36	5	496-513(1.36) 626-642(0.42) 734-750(0.01) 789-804(0.29) 1311-1327(0.42)
93	89714	NM_002994	CXCL5	Chemokine (C-X-C motif) ligand 5	CXCL5	6374	1.29	6	541-557(0.42) 687-703(0.83) 781-797(0.01) 850-865(0.29) 931-946(1.29) 1378-1394(0.42)
359	458346	NM_002995	XCL2	Chemokine (C motif) ligand 1	XCL1	6375	0.71	2	768-783(0.71) 1174-1190(0.42)
84	80420	NM_002996	CX3CL1	Chemokine (C-X3-C motif) ligand 1	CX3CL1	6376	1	1	3255-3271(1.00)
290	414795	NM_003006	SERPINE1						
222	134106	NM_003010	MAP2K4	Mitogen-activated protein kinase kinase 4	MAP2K4	6416	1.01	3	554-570(0.42) 1795-1809(0.42) 1863-1879(1.01)
301	444086	NM_003111	SRF Serum response factor (c-fos serum response element-binding transcription factor)						
302	21486	NM_003131	STAT1	Serum response factor (c-fos serum response element-binding transcription factor)	SRF	6722	3.42	7	2371-2387(0.01) 2575-2591(3.42) 2628-2644(0.01) 3274-3290(2.00) 3667-3682(0.12) 3952-3968(1.00) 4055-4070(0.71)
304	437475	NM_003151	STAT6						
305	432466	NM_003153	TBK1						
360	248116	NM_003175	XCR1						
227	290346	NM_003188	MAP3K7	Mitogen-activated protein kinase kinase kinase 7	MAP3K7	6885	1.29	3	1264-1280(0.42) 1388-1403(0.29) 2087-2102(1.29)
308	154970	NM_003212	TFCP2	Teratocarcinoma-derived growth factor 1	TDGF1	6997	1.42	2	1409-1425(1.01) 1476-1492(1.42)
310	1103	NM_003236	TGFB1	Transforming growth factor, alpha	TGFA	7039	4	6	917-933(0.01) 1135-1151(1.42) 2161-2177(0.42) 3793-3809(0.42) 3891-3908(0.71) 4017-4033(4.00)
313	2025	NM_003238	TGFB3						
314	421496	NM_003239	TGFBI						
317	342874	NM_003242	TGFBR3						
318	161999	NM_003243	TGIF	Transforming growth factor, beta receptor III	TGFBR3	7049	1	2	3615-3631(1.00) 3815-3831(0.83)
319	5184	NM_003244	TH1L	TGFB-induced factor homeobox 1	TGIF1	7050	1.83	2	1211-1227(0.42) 1349-1365(1.83)
321	120551	NM_003254	TLR10						
131	151250	NM_003259	ICAM5	Intercellular adhesion molecule 5, telencephalin	ICAM5	7087	0.83	1	2892-2908(0.83)

323	29499	NM_003264	TLR3	Toll-like receptor 2	TLR2	7097	1	4	426-442(0.42) 686-702(0.01) 1020-1036(1.00) 2467-2483(0.42)
324	174312	NM_003265	TLR4	Toll-like receptor 3	TLR3	7098	2.42	4	1408-1423(0.29) 2068-2084(2.42) 2533-2549(1.42) 2812-2827(1.29)
325	114408	NM_003266	TLR5	Data not found			1.42	4	1004-1020(0.42) 3194-3210(0.83) 3634-3652(0.39) 3821-3837(1.42)
326	36986	NM_003268	TLR6	Toll-like receptor 5	TLR5	7100	2.42	3	426-441(0.13) 1133-1149(2.42) 3305-3321(0.42)
347	8375	NM_003300	TRAF4	TNF receptor-associated factor 3	TRAF3	7187	0.42	2	2172-2188(0.42) 2342-2358(0.42)
341	652 NM_000074	NM_003326	Tumor necrosis factor (ligand) superfamily, member 5 (hyper-IgM syndr	Tumor necrosis factor (ligand) superfamily, member 4	TNFSF4	7292	1.88	3	1903-1919(1.42) 3276-3292(0.01) 3414-3429(1.88)
353	116237	NM_003331	VAV1	Tyrosine kinase 2	TYK2	7297	0.42	1	4054-4070(0.42)
355	267659	NM_003371	VAV3						
358	174228	NM_003376	XCL1	Vascular endothelial growth factor A	VEGFA	7422	1.01	1	177-193(1.01)
363	106309	NM_003403	ZFPM2	YY1 transcription factor	YY1	7528	0.42	2	114-130(0.42) 2427-2443(0.42)
95	421986	NM_003467	CXCR4	Chemokine (C-X-C motif) receptor 4	CXCR4	7852	0.71	1	1462-1477(0.71)
247	101695	NM_003581	NCK2						
141	43505	NM_003639	IKBKG						
340	181097	NM_003701	TNFSF4	Tumor necrosis factor (ligand) superfamily, member 11	TNFSF11	8600	2	4	1322-1338(0.42) 1572-1588(2.00) 1590-1606(1.42) 2159-2175(0.42)
69	166186	NM_003741	CHRD						
294	405946	NM_003745	SOCS2	Suppressor of cytokine signaling 1	SOCS1	8651	0.29	2	1160-1174(0.01) 1201-1216(0.29)
344	223474	NM_003789	TRAF1						
282	410774	NM_003804	RUNX1	Receptor (TNFRSF)-interacting serine-threonine kinase 1	RIPK1	8737	0.12	1	2371-2388(0.12)
105	86131	NM_003824	FADD						
333	159 NM_001065	NM_003839	Tumor necrosis factor receptor superfamily, member 1A	Tumor necrosis factor receptor superfamily, member 11a, NFKB activator	TNFRSF11A	8792	2.42	2	2035-2051(1.42) 2700-2716(2.42)
162	159301	NM_003855	IL18R1	Interleukin 18 receptor 1	IL18R1	8809	1.42	9	431-447(0.42) 897-913(0.01) 1062-1078(0.42) 2402-2418(0.42) 2584-2600(0.42) 2655-2671(0.01) 3236-3250(0.25) 3303-3319(1.42) 3430-3446(0.42)
295	436943	NM_003877	SOCS3	Suppressor of cytokine signaling 2	SOCS2	8835	0.42	1	1458-1474(0.42)
10	40368	NM_003916	AP1S2	Adaptor-related protein complex 1, sigma 2 subunit	AP1S2	8905	2.83	5	637-653(2.83) 848-864(1.00) 1327-1343(0.42) 1654-1670(1.42) 2239-2255(0.42)
225	440315	NM_003954	MAP3K14 Mitogen-activated protein kinase kinase kinase 14						
296	528717	NM_003955	SOCS4						
202	1048	NM_003994	KITLG	KIT ligand	KITLG	4254	1.42	2	401-417(1.42) 1241-1257(0.42)
253	160557	NM_003998	NFKB1	Nuclear factor of kappa light polypeptide gene enhancer in B-cells 1	NFKB1	4790	0.83	3	751-767(0.83) 1194-1210(0.83) 3476-3494(0.39) p50 (NF-kB subunit)
110	407482	NM_004116	FKBP1B	FK506 binding protein 1B, 12.6 kDa	FKBP1B	2281	0.7	1	651-668(0.70)
30	272493	NM_004166	CCL14	Data not found			0.01	1	187-203(0.01)
31	272493	NM_004167	CCL15	Data not found			0.01	1	187-203(0.01)
297	169836	NM_004232	SOCS5	Suppressor of cytokine signaling 6	SOCS6	9306	1.42	4	1846-1862(0.42) 1976-1992(1.42) 2281-2296(0.29) 2415-2431(0.25)
348	385685	NM_004295	TRAF5						
2	371974	NM_004302	ACVR1B						
12	76366	NM_004322	BAD BCL2-antagonist of cell death	BCL2-associated agonist of cell death	BAD	572	0.83	1	698-714(0.83)
17	2534	NM_004329	BMPR1A	Bone morphogenetic protein receptor, type IA	BMPR1A	657	2.42	4	2126-2142(0.84) 2151-2167(1.83) 2221-2237(0.83) 2893-2909(2.42)
284	332053	NM_004348	SAA1						
53	46468	NM_004367	CCR6	Chemokine (C-C motif) receptor 6	CCR6	1235	2	9	964-980(0.42) 1608-1624(0.01) 1669-1685(1.00) 1851-1867(1.42) 2275-2291(0.42) 2347-2362(0.29) 2578-2594(2.00) 3074-3092(0.39) 3479-3495(0.01)
76	22315	NM_004379	CREB1	CAMP responsive element binding protein 1	CREB1	1385	2	5	1162-1177(1.29) 1775-1791(0.42) 1916-1932(1.42) 2397-2414(0.71) 2479-2495(2.00)
77	270804	NM_004380	CREBBP	CREB binding protein	CREBBP	1387	2	5	7677-7693(0.01) 7752-7768(0.42) 7843-7859(0.42) 7904-7921(0.36) 8492-8508(2.00)
99	74088	NM_004430	EGR3	Early growth response 3	EGR3	1960	3.29	6	2686-2701(3.29) 2986-3001(0.71) 3369-3385(0.42) 3944-3960(2.42) 4137-4153(1.42) 4321-4336(0.29)
121	102548	NM_004491	GRLF1	Glucocorticoid receptor DNA binding factor 1	GRLF1	2909	0.42	1	1498-1514(0.42)
146	204891	NM_004512	IL11RA						
157	170359	NM_004513	IL16	Interleukin 16 (lymphocyte chemoattractant factor)	IL16	3603	1	4	2563-2579(1.00) 2710-2726(0.84) 3006-3022(0.42) 4951-4967(0.42)
252	77810	NM_004554	NFATC4						
251	172674	NM_004555	NFATC3	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3	NFATC3	4775	0.42	2	1955-1971(0.42) 3756-3772(0.42)
257	458276	NM_004556	NFKBIE						
32	10458	NM_004590	CCL16	Chemokine (C-C motif) ligand 16	CCL16	6360	1.42	2	662-678(1.42) 833-849(1.25)
37	75498	NM_004591	CCL20	Chemokine (C-C motif) ligand 20	CCL20	6364	1.42	2	553-569(1.42) 754-768(1.42)
316	82028	NM_004612	TGFBR2	Transforming growth factor, beta receptor 1	TGFBR1	7046	2.42	3	223-239(0.42) 1641-1657(0.83) 2148-2164(2.42)
349	444172	NM_004619	TRAF6	TNF receptor-associated factor 5	TRAF5	7188	1.83	4	1871-1887(0.83) 2692-2707(0.29) 3067-3083(0.42) 3253-3269(1.83)
350	302740	NM_004620	TRPV6	TNF receptor-associated factor 6	TRAF6	7189	1.84	2	1326-1342(0.83) 2459-2475(1.84)
167	25333	NM_004633	IL1R2	Interleukin 1 receptor, type II	IL1R2	7850	0.83	1	1314-1330(0.83)
286	118684	NM_004757	SDF2	Aminoacyl tRNA synthetase complex-interacting multifunctional protein 1	AIMP1	9255	0.42	1	559-573(0.42)
120	299567	NM_004778	GPR44	G protein-coupled receptor 44	GPR44	11251	1.71	2	1493-1508(1.71) 2754-2770(1.42) CRTH2 human
66	72901	NM_004936	CDKN2B	Cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)	CDKN2B	1030	0.42	2	1972-1988(0.01) 2049-2065(0.42)
197	434374	NM_004972	JAK2	Janus kinase 2	JAK2	3717	2.42	5	572-588(2.42) 1465-1480(0.29) 2120-2136(1.01) 4253-4269(0.42) 4544-4560(1.42)
258	2764	NM_005007	NFKBIL1 Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor-like 1 IKBL						
40	169191	NM_005064	CCL23						
264	460294	NM_005085	NUP214	Nucleoporin 214kDa	NUP214	8021	0.42	1	1313-1329(0.42)
14	31210	NM_005178	BCL3	B-cell CLL/lymphoma 3	BCL3	602	0.42	1	1778-1794(0.42)
24	334330	NM_005184	CALM3	Calmodulin 3 (phosphorylase kinase, delta)	CALM3	808	1.01	1	1820-1836(1.01)
62	838	NM_005191	CD80	CD80 molecule	CD80	941	0.42	3	215-231(0.42) 813-829(0.42) 1813-1829(0.42)
67	99029	NM_005194	CEBPB	CCAAT/enhancer binding protein (C/EBP), beta	CEBPB	1051	0.42	1	1711-1727(0.42)
55	113222	NM_005201	CCR8	Chemokine (C-C motif) receptor 8	CCR8	1237	1.42	3	1928-1943(0.29) 2326-2342(1.42) 2351-2367(0.42)
83	247824	NM_005214	CTLA4	Cytotoxic T-lymphocyte-associated protein 4	CTLA4	1493	0.42	2	534-550(0.42) 1439-1455(0.42)
100	181128	NM_005229	ELK1	ELK1, member of ETS oncogene family	ELK1	2002	0.42	2	1777-1793(0.42) 2806-2822(0.01)
101	288555	NM_005230	ELK3						
104	436019	NM_005241	EVI1	MDS1 and EVI1 complex locus	MECOM	2122	0.01	1	2305-2321(0.01)
112	25647	NM_005252	FOS V-fos FBJ murine osteosarcoma viral oncogene homolog	FBJ murine osteosarcoma viral oncogene homolog	FOS	2353	1.13	3	1517-1533(0.83) 1783-1798(1.13) 1937-1953(0.83)
114	301612	NM_005253	FOSL2						
118	73172	NM_005263	GFI1	Growth factor independent 1 transcription repressor	GFI1	2672	2.42	3	2583-2599(1.00) 2679-2695(0.25) 2763-2779(2.42)
361	203206	NM_005283	XPO5						
126	37003	NM_005343	HRAS						
201	2780	NM_005354	JUND						
216	75862	NM_005359	MADH4	SMAD family member 4	SMAD4	4089	0.83	3	1952-1968(0.42) 2364-2380(0.83) 2494-2509(0.29)
221	134859	NM_005360	MAF V-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)						
245	439671	NM_005380	NBL1						
29	414629	NM_005408	CCL13	Chemokine (C-C motif) ligand 13	CCL13	6357	3	2	524-540(3.00) 654-669(0.12)
88	103982	NM_005409	CXCL11	Chemokine (C-X-C motif) ligand 11	CXCL11	6373	0.42	2	473-489(0.42) 1153-1169(0.25)
354	4248	NM_005428	VAV2	Vav 1 guanine nucleotide exchange factor	VAV1	7409	0.83	1	302-318(0.83)
113	283565	NM_005438	FOSL1						
68	248204	NM_005454	CER1						
51	184926	NM_005508	CCR4	Chemokine (C-C motif) receptor 4	CCR4	1233	0.42	3	423-439(0.42) 967-983(0.42) 1191-1207(0.42)
149	223894	NM_005535	IL12RB1 Interleukin 12 receptor, beta 1 IL-12Rb1						
194	211576	NM_005546	ITK IL2-inducible T-cell kinase Itk	IL2-inducible T-cell kinase	ITK	3702	0.42	2	1197-1212(0.29) 3981-3997(0.42)
195	157091	NM_005547	IVL Involucrin						
218	153863	NM_005585	MADH6	SMAD family member 6	SMAD6	4091	0.42	1	2579-2595(0.42)
235	415033	NM_005587	MEF2A	Myocyte enhancer factor 2A	MEF2A	4205	2	6	206-222(2.00) 1026-1042(0.42) 2035-2050(0.29) 2690-2706(0.42) 2830-2846(0.42) 2863-2879(1.01)
243	178023	NM_005593	MYF5	Myogenic factor 5	MYF5	4617	1	2	1010-1026(0.42) 1116-1132(1.00)
275	280604	NM_005605	PPP3R1	Protein phosphatase 3, catalytic subunit, gamma isozyme	PPP3CC	5533	1.29	3	707-723(0.42) 1921-1937(0.42) 2030-2045(1.29)
47	271387	NM_005623	CCL8	Chemokine (C-C motif) ligand 8	CCL8	6355	1.83	3	831-848(0.29) 870-884(0.43) 1109-1125(1.83)
42	310511	NM_005624	CCL25						
309	170009	NM_005653	TGFA	Transcription factor CP2	TFCP2	7024	1.71	3	1473-1489(0.42) 1590-1605(1.71) 2330-2347(0.29) human CP2
345	437575	NM_005658	TRAF2	TNF receptor-associated factor 1	TRAF1	7185	0.42	1	1866-1882(0.42)
161	325978	NM_005699	IL18BP						
138	530902	NM_005849	IGSF6						
213	388294	NM_005900	MADH1	SMAD family member 1	SMAD1	4086	2	1	434-450(2.00)

214	110741	NM_005901	MADH2	SMAD family member 2	SMAD2	4087	0.71	4	1061-1077(0.42) 1897-1913(0.42) 2012-2028(0.42) 2153-2168(0.71)
215	288261	NM_005902	MADH3	SMAD family member 3	SMAD3	4088	3.42	1	2055-2071(3.42)
217	167700	NM_005903	MADH5	SMAD family member 5	SMAD5	4090	0.88	5	972-987(0.88) 1105-1121(0.42) 1475-1490(0.88) 1738-1753(0.71) 1868-1884(0.83)
219	370849	NM_005904	MADH7	SMAD family member 7	SMAD7	4092	3	2	1694-171(01.25) 2833-2849(3.00)
220	528630	NM_005905	MADH9	SMAD family member 9	SMAD9	4093	0.88	2	1342-1357(0.88) 1541-1557(0.42)
236	78881	NM_005919	MEF2B						
237	77955	NM_005920	MEF2D						
352	75516	NM_006022	TYK2	TSC22 domain family, member 1	TSC22D1	8848	1.42	4	247-262(1.29) 1293-1308(0.29) 1365-1382(0.29) 1628-1644(1.42)
327	179152	NM_006068	TLR7	Toll-like receptor 6	TLR6	10333	2.42	4	954-970(2.42) 1129-1142(0.16) 1265-1281(0.42) 1533-1549(0.01)
356	109225	NM_006113	VCAM1	Vav 3 guanine nucleotide exchange factor	VAV3	10451	1.71	7	356-372(0.42) 864-880(0.42) 1981-1997(0.01) 3007-3023(0.42) 3547-3563(0.42) 4175-4191(0.42) 4712-4729(1.71)
228	403927	NM_006116	MAP3K7IP1						
57	1987	NM_006139	CD28	CD28 molecule	CD28	940	0.84	4	1294-1311(0.42) 2127-2142(0.71) 3101-3117(0.84) 3146-3162(0.42)
292	75367	NM_006142	SLA Src-like-adaptor						
260	149466	NM_006165	NFRKB						
272	77274	NM_006221	PLAU						
46	251526	NM_006273	CCL7	Chemokine (C-C motif) ligand 7	CCL7	6354	0.83	1	561-577(0.83)
35	50002	NM_006274	CCL19						
332	204044	NM_006290	TNFRSF11A	Tumor necrosis factor, alpha-induced protein 3	TNFAIP3	7128	2	7	923-940(0.29) 3219-3235(0.01) 3262-3278(1.42) 4003-4019(1.83) 4159-4175(0.84) 4228-4244(2.00) 4282-4298(1.83)
115	9914	NM_006350	FST Follistatin Follistatin	Follistatin	FST	10468	0.42	1	1335-1351(0.42)
90	100431	NM_006419	CXCL13						
281	390758	NM_006509	RIPK1	V-rel reticuloendotheliosis viral oncogene homolog B	RELB	5971	0.01	1	2272-22888(0.01)
248	86998	NM_006599	NFAT5	Nuclear factor of activated T-cells 5, tonicity-responsive	NFAT5	10725	2.42	23	2445-2461(0.42) 4094-4110(1.42) 5867-5883(0.42) 6006-6022(0.42) 6441-6457(0.01) 7981-7997(1.42) 8214-8229(0.29) 8282-8298(0.42) 8554-8570(2.42) 8718-8734(0.42) 9042-9057(0.29) 9689-9705(0.42) 9723-9737(0.42) 9900-9916(0.42) 10026-10042(2.42) 10572-10588(2.00) 10831-10847(2.00) 10852-10868(0.42) 11657-11673(0.42) 11789-11803(0.01) 12317-12333(1.83) 12706-12722(0.42) 13796-13811(0.29)NFAT5 human
226	28827	NM_006609	MAP3K2	Mitogen-activated protein kinase kinase kinase 2	MAP3K2	10746	3	7	1514-1530(0.42) 2035-2051(0.83) 2105-2120(1.88) 2133-2151(0.39) 2174-2190(3.00) 2699-2714(0.29) 2982-2999(0.42)
96	201300	NM_006639	CYSLTR1 Cysteinyl leukotriene receptor 1	Cysteinyl leukotriene receptor 1	CYSLTR1	10800	1	3	15-30(0.29) 842-858(0.42) 1012-1028(1.00)
56	225946	NM_006641	CCR9	Chemokine (C-C motif) receptor 9	CCR9	10803	2.42	4	890-906(2.42) 1029-1045(0.42) 1209-1225(0.42) 2371-2386(0.71)
293	50640	NM_006748	SOCS1	Src-like-adaptor	SLA	6503	0.42	1	1153-1169(0.42)
22	282410	NM_006888	CALM1	Calmodulin 1 (phosphorylase kinase, delta)	CALM1	801	1	5	692-708(0.01) 1765-1781(1.00) 3127-3143(0.42) 3258-3276(0.97) 3474-3490(0.01) CALM1 calmodulin 1 (phosphorylase kinase, delta) GC NRO hvd/dmso score -1.4
63	27954	NM_006889	CD86	CD86 molecule	CD86	942	0.83	3	1115-1131(0.01) 1188-1204(0.42) 2548-2564(0.83)
287	89546	NM_006923	SELE						
365		NM_007144		Polycomb group ring finger 2	PCGF2	7703	0.29	1	1372-1387(0.29)
303	80642	NM_007315	STAT4	Signal transducer and activator of transcription 1, 91kDa	STAT1	6772	1.42	4	1476-1492(0.42) 3264-3280(0.42) 3523-3539(1.42) 4089-4105(0.42)
364	371617	NM_012082	RNF110	Zinc finger protein, multitype 2	ZFPM2	23414	1.42	4	3618-3632(1.01) 3709-3725(1.42) 3745-3761(0.42) 3762-3778(1.25)
132	56247	NM_012092	ICOS	Inducible T-cell co-stimulator	ICOS	29851	2.42	4	495-510(1.29) 1076-1092(2.42) 1527-1543(1.83) 2044-2059(0.29)
21	435798	NM_012295	CABIN1						
250	356321	NM_012340	NFATC2						
261	348802	NM_012342	BAMBI						
306	272409	NM_013254	TBX21	TANK-binding kinase 1	TBK1	29110	2.42	4	155-171(1.83) 2248-2264(0.01) 2433-2449(2.42) 2795-2811(0.42)
307	385870	NM_013351	TDGF1	T-box 21	TBX21	30009	0.29	1	1967-1982(0.29) T-bet
163	71979	NM_013371	IL19	Interleukin 19	IL19	29949	1.83	1	656-672(1.83)
71	40098	NM_013372	CKTSF1B1	Gremlin 1, cysteine knot superfamily, homolog (Xenopus laevis)	GREM1	26585	2.42	5	2547-2563(2.42) 3037-3053(1.42) 3181-3196(0.29) 3357-3373(1.42) 3552-3568(2.00)
259	356764	NM_013432	NFKBIL2 Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor-like 2 IKBR						
140	321045	NM_014002	IKBKE	Inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon	IKBKE	9641	0.01	1	2062-2078(0.01)
159	129751	NM_014339	IL17R						
206	498997	NM_014387	LAT Linker for activation of T cells						
336	355307	NM_014452	TNFRSF7 Tumor necrosis factor receptor superfamily, member 7	Tumor necrosis factor receptor superfamily, member 21	TNFRSF21	27242	0.83	6	882-898(0.83) 1761-1777(0.42) 2446-2462(0.42) 2616-2631(0.71) 2990-3006(0.83) 3207-3223(0.01)
312	169300	NM_015927	TGFB2						
320	446641	NM_016397	TIMP1						
328	272410	NM_016562	TLR8	Toll-like receptor 7	TLR7	51284	0.84	2	3097-3113(0.84) 3337-3353(0.42)
119	278446	NM_016602	GPR2						
329	87968	NM_016610	TLR9	Data not found			1.29	4	740-755(0.29) 2231-2244(0.75) 2690-2706(0.42) 3120-3137(1.29)
330	241570	NM_017442	TNF Tumor necrosis factor (TNF superfamily, member 2)	Toll-like receptor 9	TLR9	54106	1.83	1	351-367(1.83)
351	114360	NM_018646	TSC22						
169	272373	NM_018724	IL20	Interleukin 20	IL20	50604	0.42	1	698-714(0.42)
171	10927	NM_019107	C19orf10	Chromosome 19 open reading frame 10	C19orf10	56005	0.83	1	981-997(0.83)
211	130685	NM_019839	LTB4R2						
123	435970	NM_019884	GSK3A	Glycogen synthase kinase 3 alpha	GSK3A	2931	0.42	1	1949-1965(0.42)
255	81328	NM_020529	NFKBIA	Nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	NFKBIA	4792	2.83	3	1101-1117(0.42) 1494-1510(2.83) 1520-1536(0.42)
8	437877	NM_020547	AMHR2						
362	388927	NM_020750	YY1 YY1 transcription factor	Exportin 5	XPO5	57510	1.42	4	631-647(1.42) 4860-4876(0.01) 5071-5087(0.42) 5127-5143(0.83)
274	75206	NM_021132	PPP3CC	Protein phosphatase 3, catalytic subunit, beta isozyme	PPP3CB	5532	0.42	2	2124-2140(0.42) 2678-2697(0.06)
346	297660	NM_021138	TRAF3						
170	302014	NM_021803	IL21	Interleukin 21	IL21	59067	0.39	1	584-602(0.39)
280	307905	NM_021975	RELB						
133	37026	NM_024013	IFNA1	Interferon, alpha 1	IFNA1	3439	0.42	1	482-498(0.42)
322	519033	NM_030956	TLR2	Toll-like receptor 10	TLR10	81793	2.42	6	99-115(2.42) 277-293(1.42) 516-532(0.42) 861-877(0.42) 2114-2130(0.42) 2143-2159(0.42)
125	155111	NM_032782	HAVCR2	Hepatitis A virus cellular receptor 2	HAVCR2	84868	0.88	2	1968-1984(0.83) 2282-2297(0.88)
111	334788	NM_032815	FLJ14639	Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein	NFATC2IP	84901	0.71	2	1466-1481(0.71) 1593-1609(0.01)
299	9460	NM_080867	SP1 Sp1 transcription factor	Suppressor of cytokine signaling 4	SOCS4	122809	1.42	3	955-971(0.83) 2130-2146(0.01) 2555-2571(1.42)
300	154295	NM_138473	SP3 Sp3 transcription factor	Sp1 transcription factor	SP1	6667	0.01	1	1466-1482(0.01)
298	352327	NM_144949	SOCS7	Suppressor of cytokine signaling 5	SOCS5	9655	1.71	10	898-914(0.42) 2006-2022(0.42) 2234-2250(1.42) 2280-2296(1.42) 2351-2367(0.42) 2761-2776(0.88) 2898-2914(0.42) 4217-4231(0.01) 4319-4337(0.97) 4466-4481(1.71)
223	110299	NM_145185	MAP2K7						
155	528402	NM_172175	IL15	Data not found			3.42	4	418-433(0.29) 806-822(0.83) 951-967(0.42) 1151-1167(3.42)
249	96149	NM_172390	NFATC1						
122	440438	NM_173849	GSC Goosecoid						
210	445013	NM_181657	LTB4R	Leukotriene B4 receptor	LTB4R	1241	0.42	3	437-453(0.42) 569-583(0.01) 937-952(0.29)
334	256278	TNFRSF1A	TNFRSF1B						
342	2007	TNFSF5	TNFSF6						
139	413513	XM_032491	IKBKB						
224	170610	XM_042066	MAP3K1						
231	861	XM_055766	MAPK3						
244	270564	XM_294897	NAP4						

Genes enriched in HuR RNP-IP (see Supplemental Table 1) that display HuR motifs					
Genes ranked according to p<0.05 in TNFa+IFNg-18h					
Name	**Symbol of HuR hits _4_collation 04-14-10**	**GeneID**	**Motif Score**	**No. of Motifs**	**Motif Position**
Chemokine (C-C motif) ligand 2	CCL2	6347	2.42	4	455-471(1.01) 492-508(2.00) 524-540(0.42) 573-589(2.42)
Chemokine (C-C motif) ligand 8	CCL8	6355	1.83	3	831-848(0.29) 870-884(0.43) 1109-1125(1.83)
Chemokine (C-X-C motif) ligand 2	CXCL2	2920	1.42	4	589-605(1.42) 693-709(1.42) 885-901(0.25) 1008-1024(0.42)
Mitogen-activated protein kinase 8	MAPK8	5599	1.42	1	643-659(1.42)
Transforming growth factor, alpha	TGFA	7039	4	6	917-933(0.01) 1135-1151(1.42) 2161-2177(0.42) 3793-3809(0.42) 3891-3908(0.71) 4017-4033(4.00)
Chemokine (C-C motif) ligand 20	CCL20	6364	1.42	2	553-569(1.42) 754-768(1.42)
Tumor necrosis factor (ligand) superfamily, member 11	TNFSF11	8600	2	4	1322-1338(0.42) 1572-1588(2.00) 1590-1606(1.42) 2159-2175(0.42)
Vav 1 guanine nucleotide exchange factor	VAV1	7409	0.83	1	302-318(0.83)
Tyrosine kinase 2	TYK2	7297	0.42	1	4054-4070(0.42)
Casein kinase 2, alpha 1 polypeptide	CSNK2A1	1457	1.42	3	922-937(0.29) 1710-1726(0.42) 2170-2186(1.42)
Integrin, beta 7	ITGB7	3695	1.83	1	2246-2262(1.83)
CD27 molecule	CD27	939	5	1	789-805(5.00)
Transforming growth factor, beta receptor 1	TGFBR1	7046	2.42	3	223-239(0.42) 1641-1657(0.83) 2148-2164(2.42)
Protein phosphatase 3 (formerly 2B), regulatory subunit B, alpha isoform	PPP3R1	5534	1.88	2	1515-1530(1.88) 2290-2306(1.42)
Tumor necrosis factor receptor superfamily, member 21	TNFRSF21	27242	0.83	6	882-898(0.83) 1761-1777(0.42) 2446-2462(0.42) 2616-2631(0.71) 2990-3006(0.83) 3207-3223(0.01)
Polycomb group ring finger 2	PCGF2	7703	0.29	1	1372-1387(0.29)
Interleukin 6 (interferon, beta 2)	IL6	3569	4	4	825-841(0.83) 879-895(4.00) 968-984(0.42) 1072-1088(3.00)
Mitogen-activated protein kinase kinase kinase 2	MAP3K2	10746	3	7	1514-1530(0.42) 2035-2051(0.83) 2105-2120(1.88) 2133-2151(0.39) 2174-2190(3.00) 2699-2714(0.29) 2982-2999(0.42)
TNF receptor-associated factor 1	TRAF1	7185	0.42	1	1866-1882(0.42)
SMAD family member 2	SMAD2	4087	0.71	4	1061-1077(0.42) 1897-1913(0.42) 2012-2028(0.42) 2153-2168(0.71)
			1.878	0.74	
Genes ranked according to p = 0.05 to 0.1 in TNFa+IFNg-18h					
Chemokine (C-C motif) ligand 13	CCL13	6357	3	2	524-540(3.00) 654-669(0.12)
TGFB-induced factor homeobox 1	TGIF1	7050	1.83	2	1211-1227(0.42) 1349-1365(1.83)
Activating transcription factor 2	ATF2	1386	1.39	6	269-285(0.42) 918-934(0.42) 1876-1894(1.39) 1902-1917(0.29) 1945-1960(0.13) 2044-2059(1.29)
MYC associated factor X	MAX	4149	0.88	1	787-802(0.88)
Runt-related transcription factor 1	RUNX1	861	1.42	13	243-258(0.88) 2413-2429(0.83) 2518-2534(0.42) 2552-2568(1.42) 2577-2593(0.42) 2684-2700(1.42) 3598-3613(0.29) 3630-3646(1.42) 5064-5080(0.42) 5149-5164(0.71) 5236-5252(0.42) 5297-5313(1.42) 5413-5429(0.42)
Chemokine (C-C motif) ligand 7	CCL7	6354	0.83	1	561-577(0.83)
Fas ligand (TNF superfamily, member 6)	FASLG	356	2.42	3	967-983(0.01) 1790-1805(0.29) 1812-1828(2.42)
Vascular endothelial growth factor A	VEGFA	7422	1.01	1	177-193(1.01)
Chemokine (C-X-C motif) ligand 3	CXCL3	2921	1	2	584-600(0.42) 665-681(1.00)
Zinc finger protein, multitype 2	ZFPM2	23414	1.42	4	3618-3632(1.01) 3709-3725(1.42) 3745-3761(0.42) 3762-3778(1.25)
Activin A receptor, type IIA	ACVR2A	92	2	5	456-472(0.42) 631-645(0.42) 1780-1796(1.01) 2122-2138(2.00) 2168-2184(0.42)
Leukotriene B4 receptor	LTB4R	1241	0.42	3	437-453(0.42) 569-583(0.01) 937-952(0.29)
Chemokine (C-C motif) ligand 18 (pulmonary and activation-regulated)	CCL18	6362	1	1	509-525(1.00)
Transforming growth factor, beta receptor III	TGFBR3	7049	1	2	3615-3631(1.00) 3815-3831(0.83)
Vav 3 guanine nucleotide exchange factor	VAV3	10451	1.71	7	356-372(0.42) 864-880(0.42) 1981-1997(0.01) 3007-3023(0.42) 3547-3563(0.42) 4175-4191(0.42) 4712-4729(1.71)
Chemokine (C-C motif) receptor 5	CCR5	1234	1.55	3	1835-1850(0.29) 3145-3161(0.42) 3583-3598(1.55)
B-cell CLL/lymphoma 2	BCL2	596	3.42	14	806-822(0.83) 963-979(0.42) 1456-1472(0.25) 1545-1560(0.29) 2248-2264(0.42) 2401-2417(1.42) 2831-2847(0.01) 3216-3232(0.01) 3257-3273(0.42) 3706-3722(0.25) 4184-4200(3.42) 5047-5063(0.01) 5114-5130(1.42) 5937-5953(0.42)
Angiotensinogen (serpin peptidase inhibitor, clade A, member 8)	AGT	183	0.42	1	1865-1881(0.42)

Collagen, type III, alpha 1	COL3A1	1281	2.42	2	5007-5023(0.01) 5099-5115(2.42)
Interferon, beta 1, fibroblast	IFNB1	3456	1.42	2	683-699(1.42) 721-737(1.42)
Toll-like receptor 9	TLR9	54106	1.83	1	351-367(1.83)
Protein tyrosine phosphatase, receptor type, C	PTPRC	5788	2.42	7	362-378(0.83) 794-810(1.42) 1120-1136(0.42) 2722-2737(1.29) 3823-3839(0.42) 4752-4768(1.00) 4845-4861(2.42)
Tumor necrosis factor receptor superfamily, member 11a, NFKB activator	TNFRSF11A	8792	2.42	2	2035-2051(1.42) 2700-2716(2.42)
Toll-like receptor 5	TLR5	7100	2.42	3	426-441(0.13) 1133-1149(2.42) 3305-3321(0.42)
Chemokine (C-C motif) receptor 1	CCR1	1230	0.71	1	1618-1635(0.71)
Tumor necrosis factor (TNF superfamily, member 2)	TNF	7124	2.42	1	1331-1347(2.42)
Interleukin 12 receptor, beta 2	IL12RB2	3595	1.42	3	2484-2500(1.42) 3390-3405(0.29) 3774-3790(0.83)
Nitric oxide synthase 2, inducible	NOS2	4843	0.42	1	277-293(0.42)
T-box 21	TBX21	30009	0.29	1	1967-1982(0.29) T-bet
Interleukin 5 (colony-stimulating factor, eosinophil)	IL5	3567	1.29	2	723-739(0.25) 776-793(1.29)
CD86 molecule	CD86	942	0.83	3	1115-1131(0.01) 1188-1204(0.42) 2548-2564(0.83)
Toll-like receptor 7	TLR7	51284	0.84	2	3097-3113(0.84) 3337-3353(0.42)
Src-like-adaptor	SLA	6503	0.42	1	1153-1169(0.42)
Chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)	CXCL6	6372	1.36	5	496-513(1.36) 626-642(0.42) 734-750(0.01) 789-804(0.29) 1311-1327(0.42)
Teratocarcinoma-derived growth factor 1	TDGF1	6997	1.42	2	1409-1425(1.01) 1476-1492(1.42)
TNF receptor-associated factor 5	TRAF5	7188	1.83	4	1871-1887(0.83) 2692-2707(0.29) 3067-3083(0.42) 3253-3269(1.83)
Toll-like receptor 6	TLR6	10333	2.42	4	954-970(2.42) 1129-1142(0.16) 1265-1281(0.42) 1533-1549(0.01)
Chemokine (C-C motif) receptor 8	CCR8	1237	1.42	3	1928-1943(0.29) 2326-2342(1.42) 2351-2367(0.42)
Mitogen-activated protein kinase 10	MAPK10	5602	2.42	2	963-979(2.42) 1915-1931(2.42)
			1.29	4	740-755(0.29) 2231-2244(0.75) 2690-2706(0.42) 3120-3137(1.29)
Toll-like receptor 3	TLR3	7098	2.42	4	1408-1423(0.29) 2068-2084(2.42) 2533-2549(1.42) 2812-2827(1.29)
Myogenic factor 5	MYF5	4617	1	2	1010-1026(0.42) 1116-1132(1.00)
Chemokine (C-X3-C motif) receptor 1	CX3CR1	1524	0.29	1	2963-2978(0.29)
Toll-like receptor 10	TLR10	81793	2.42	6	99-115(2.42) 277-293(1.42) 516-532(0.42) 861-877(0.42) 2114-2130(0.42) 2143-2159(0.42)
TNF receptor-associated factor 6	TRAF6	7189	1.84	2	1326-1342(0.83) 2459-2475(1.84)
V-rel reticuloendotheliosis viral oncogene homolog (avian)	REL	5966	1.42	4	1747-1763(0.01) 2047-2062(1.29) 2127-2143(1.42) 2165-2180(0.29) c-Rel
Tumor necrosis factor (ligand) superfamily, member 4	TNFSF4	7292	1.88	3	1903-1919(1.42) 3276-3292(0.01) 3414-3429(1.88)
Suppressor of cytokine signaling 4	SOCS4	122809	1.42	3	955-971(0.83) 2130-2146(0.01) 2555-2571(1.42)
Transcription factor CP2	TFCP2	7024	1.71	3	1473-1489(0.42) 1590-1605(1.71) 2330-2347(0.29) human CP2
Nucleoporin 214kDa	NUP214	8021	0.42	1	1313-1329(0.42)
P21 protein (Cdc42/Rac)-activated kinase 1	PAK1	5058	0.42	2	849-863(0.42) 1408-1424(0.42)
Interleukin 19	IL19	29949	1.83	1	656-672(1.83)
Nuclear factor of activated T-cells 5, tonicity-responsive	NFAT5	10725	2.42	23	2445-2461(0.42) 4094-4110(1.42) 5867-5883(0.42) 6006-6022(0.42) 6441-6457(0.01) 7981-7997(1.42) 8214-8229(0.29) 8282-8298(0.42) 8554-8570(2.42) 8718-8734(0.42) 9042-9057(0.29) 9689-9705(0.42) 9723-9737(0.42) 9900-9916(0.42) 10026-10042(2.42) 10572-10588(2.00) 10831-10847(2.00) 10852-10868(0.42) 11657-11673(0.42) 11789-11803(0.01) 12317-12333(1.83) 12706-12722(0.42) 13796-13811(0.29)NFAT5 human
Activin A receptor, type I	ACVR1	90	3	5	1516-1532(0.42) 1869-1885(0.83) 2566-2582(0.25) 2656-2672(3.00) 2820-2836(2.42)
IL2-inducible T-cell kinase	ITK	3702	0.42	2	1197-1212(0.29) 3981-3997(0.42)
Interleukin 11	IL11	3589	0.42	2	1555-1571(0.42) 2243-2258(0.12)
			1.42	4	1004-1020(0.42) 3194-3210(0.83) 3634-3652(0.39) 3821-3837(1.42)
Toll-like receptor 2	TLR2	7097	1	4	426-442(0.42) 686-702(0.01) 1020-1036(1.00) 2467-2483(0.42)
TNF receptor-associated factor 3	TRAF3	7187	0.42	2	2172-2188(0.42) 2342-2358(0.42)
Suppressor of cytokine signaling 2	SOCS2	8835	0.42	1	1458-1474(0.42)
Suppressor of cytokine signaling 6	SOCS6	9306	1.42	4	1846-1862(0.42) 1976-1992(1.42) 2281-2296(0.29) 2415-2431(0.25)
Mitogen-activated protein kinase kinase kinase 7	MAP3K7	6885	1.29	3	1264-1280(0.42) 1388-1403(0.29) 2087-2102(1.29)
Vascular cell adhesion molecule 1	VCAM1	7412	1.42	5	449-465(0.42) 1031-1047(0.42) 2843-2858(0.88) 3038-3055(0.29) 3064-3080(1.42)
Myeloid differentiation primary response gene (88)	MYD88	4615	1	1	1045-1061(1.00)
			1.44	3.36	
			2.06	**29**	
				0.67	