

Table 2. Up-regulated genes by IL-4 in HaCat cells

Unigene	Refseq	Symbol	Description	10 ng/ml	20 ng/ml	50 ng/ml
Hs.324746	NM_001622	AHSG	Alpha-2-HS-glycoprotein	5.2111	3.0163	B
Hs.72885	NM_001700	AZU1	Azurocidin 1	3.2995	B	B
Hs.247838	NM_002991	CCL24	Chemokine (C-C motif) ligand 24	4.6092	3.2488	5.655
Hs.310511	NM_005624	CCL25	Chemokine (C-C motif) ligand 25	1.7495	-1.32	2.0202
Hs.131342	NM_006072	CCL26	Chemokine (C-C motif) ligand 26	501.18	456.146	534.946
Hs.512683	NM_021006	CCL3L1	Chemokine (C-C motif) ligand 3-like 1	2.7555	B	B
Hs.271387	NM_005623	CCL8	Chemokine (C-C motif) ligand 8	7.7652	7.8625	8.9706
Hs.301921	NM_001295	CCR1	Chemokine (C-C motif) receptor 1	B	B	4.4567
Hs.436568	NM_004355	CD74	CD74 molecule, major histocompatibility complex, class II invariant chain	9.4652	4.9852	8.3059
Hs.164021	NM_002993	CXCL6	Chemokine (C-X-C motif) ligand 6	3.5271	3.5638	3.4226
Hs.708201	NM_022059	CXCL16	Chemokine (C-X-C motif) ligand 16	1.8408	1.3245	2.6247
Hs.479347	NM_001559	IL-12R $\beta$ 2	Interleukin 12 receptor, beta 2	6.1548	5.7183	5.6597
Hs.336046	NM_000640	IL-13R $\alpha$ 2	Interleukin 13 receptor, alpha 2	99.221	94.1305	97.2818
Hs.661017	NM_013371	IL-19	Interleukin 19	41.242	28.6154	36.6122
Hs.1722	NM_000575	IL-1 $\alpha$	Interleukin 1, alpha	1.9111	1.361	2.5988
Hs.272373	NM_018724	IL-20	Interleukin 20	B	6.035	7.6146
Hs.302036	NM_022789	IL-25	Interleukin 25	7.9098	3.4675	B
Hs.528111	NM_145659	IL-27	Interleukin 27	2.3958	1.0815	3.6417
Hs.55378	NM_139017	IL-31RA	Interleukin 31 receptor A	B	B	2.7194
Hs.401013	NM_002460	IRF4	Interferon regulatory factor 4	3.6948	B	B
Hs.133421	NM_002310	LIFR	Leukemia inhibitory factor receptor alpha	6.2648	7.2518	5.3576
Hs.153563	NM_002349	LY75	Lymphocyte antigen 75	2.1022	-1.1862	1.8063
Hs.709191	NM_000625	NOS2	Nitric oxide synthase 2, inducible	2.8512	B	2.2003
Hs.120658	NM_003999	OSMR	Oncostatin M receptor	3.0232	2.2715	2.6779
Hs.558009	NM_003004	SECTM1	Secreted and transmembrane 1	3.6149	2.324	2.9515
Hs.253495	NM_003019	SFTPD	Surfactant protein D	1.9915	1.0545	2.0945
Hs.485572	NM_003877	SOCS2	Suppressor of cytokine signaling 2	2.4131	2.5075	2.2147
Hs.301989	NM_015136	STAB1	Stabilin 1	B	2.4847	B
Hs.437322	NM_007115	TNFAIP6	Tumor necrosis factor, alpha-induced protein 6	146.9	130.83	131.719
Hs.30345	NM_016292	TRAP1	TNF receptor-associated protein 1	2.0139	1.059	1.7903
Hs.73793	NM_003376	VEGFA	Vascular endothelial growth factor A	2.2272	1.8878	2.7258

Table 3. Down-regulated genes by IL-4 in HaCat cells

Unigene	Refseq	Symbol	Description	10 ng/ml	20 ng/ml	50 ng/ml
Hs.77867	NM_000674	ADORA1	Adenosine A1 receptor	-2.9595	-5.3329	-2.7019
Hs.73853	NM_001200	BMP2	Bone morphogenetic protein 2	-1.8188	-3.0401	-2.0002
Hs.387411	NM_001201	BMP3	Bone morphogenetic protein 3	-5.9321	B	-6.0573
Hs.529053	NM_000064	C3	Complement component 3	-1.1774	-3.1442	1.1827
Hs.546294	NM_002987	CCL17	Chemokine (C-C motif) ligand 17	-9.3093	-5.2245	-5.1287
Hs.50002	NM_006274	CCL19	Chemokine (C-C motif) ligand 19	B	-2.0226	B
Hs.75498	NM_004591	CCL20	Chemokine (C-C motif) ligand 20	-6.0384	-6.3792	-4.91
Hs.648124	NM_006664	CCL27	Chemokine (C-C motif) ligand 27	-4.6024	-3.8301	-3.5979
Hs.656904	NM_148672	CCL28	Chemokine (C-C motif) ligand 28	-3.2428	-2.6876	-2.3297
Hs.310512	NM_016557	CCRL1	Chemokine (C-C motif) receptor-like 1	-1.2501	-1.024	-2.912
Hs.517106	NM_005194	CEBPβ	CCAAT/enhancer binding protein (C/EBP), beta	-1.3593	-2.4127	-2.7797
Hs.531668	NM_002996	CX3CL1	Chemokine (C-X3-C motif) ligand 1	B	-3.2294	-2.6106
Hs.632592	NM_005409	CXCL11	Chemokine (C-X-C motif) ligand 11	-4.0393	-2.3845	B
Hs.483444	NM_004887	CXCL14	Chemokine (C-X-C motif) ligand 14	-5.5209	-6.8146	-2.0565
Hs.2303	NM_000799	EPO	Erythropoietin	B	-4.201	B
Hs.753	NM_002029	FPR1	Formyl peptide receptor 1	-5.3169	-8.4283	-4.6305
Hs.492277	NM_001001557	GDF6	Growth differentiation factor 6	-2.4982	-3.2873	-2.5283
Hs.682604	NM_176891	IFNε	Interferon, epsilon	-2.7214	-2.1103	-2.6474
Hs.591083	NM_020124	IFNκ	Interferon, kappa	-2.437	-1.68	-1.9517
Hs.654593	NM_000628	IL-10Rβ	Interleukin 10 receptor, beta	-1.7551	-2.0312	-1.6878
Hs.467304	NM_000641	IL-11	Interleukin 11	-1.7788	-2.0163	-1.9727
Hs.459095	NM_004513	IL-16	Interleukin 16	-2.605	-1.1433	b
Hs.278911	NM_013278	IL-17C	Interleukin 17C	-2.7165	B	-3.3629
Hs.83077	NM_001562	IL-18	Interleukin 18	-2.1414	-2.2413	-1.8901
Hs.516301	NM_012275	IL-1F5	Interleukin 1 family, member 5 (delta)	-5.6792	-7.4757	-6.1636
Hs.278909	NM_173178	IL-1F8	Interleukin 1 family, member 8 (eta)	B	-6.8127	-6.7174
Hs.211238	NM_019618	IL-1F9	Interleukin 1 family, member 9	-5.396	-9.3367	-5.6331
Hs.306974	NM_173161	IL-1F10	Interleukin 1 family, member 10 (theta)	B	-2.4837	B
Hs.701982	NM_000877	IL-1R1	Interleukin 1 receptor, type 1	-1.6122	-3.1454	-1.6295
Hs.81134	NM_000577	IL-1RN	Interleukin 1 receptor antagonist	-3.8311	-3.9705	-3.4465
Hs.210546	NM_021798	IL-21R	Interleukin 21 receptor	B	-10.273	B
Hs.474787	NM_000878	IL-2Rβ	Interleukin 2 receptor, beta	B	-6.0465	B
Hs.194778	NM_000634	IL-8Rβ	Interleukin 8 receptor, beta	-3.8497	-3.7642	-2.2478
Hs.376208	NM_002341	LTβ	Lymphotoxin beta (TNF superfamily, member 3)	-3.0464	B	-3.1814
Hs.122926	NM_000176	NR3C1	Nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	-1.4144	-2.0228	-1.3143
Hs.709174	NM_000952	PTAFR	Platelet-activating factor receptor	-1.9306	-2.4262	-1.5502
Hs.103755	NM_003821	RIPK2	Receptor-interacting serine-threonine kinase 2	-1.1964	-4.8282	-1.1627
Hs.19413	NM_005621	S100A12	S100 calcium binding protein A12	-2.4275	-3.5747	-2.3445
Hs.416073	NM_002964	S100A8	S100 calcium binding protein A8	-4.5065	-6.8466	-4.2569
Hs.103505	NM_020427	SLURP1	Secreted LY6/PLAUR domain containing 1	-1.7798	-2.4539	-1.8197
Hs.1166	NM_000460	THPO	Thrombopoietin	B	-2.8485	B
Hs.654532	NM_003263	TLR1	Toll-like receptor 1	-4.0705	B	-5.8871
Hs.604542	NM_003268	TLR5	Toll-like receptor 5	-1.4566	-2.1816	-1.4521
Hs.662185	NM_006068	TLR6	Toll-like receptor 6	-1.7568	-3.0589	-1.7864
Hs.241570	NM_000594	TNF	Tumor necrosis factor (TNF superfamily, member 2)	-1.9222	-2.2352	-1.5714
Hs.525157	NM_006573	TNFSF13B	Tumor necrosis factor (ligand) superfamily, member 13b	-2.7605	B	B
Hs.129708	NM_003807	TNFSF14	Tumor necrosis factor (ligand) superfamily, member 14	-2.3893	-3.2264	1.441
Hs.241382	NM_005118	TNFSF15	Tumor necrosis factor (ligand) superfamily, member 15	-1.8185	-2.8234	-2.2662
Hs.248197	NM_005092	TNFSF18	Tumor necrosis factor (ligand) superfamily, member 18	B	-5.1349	B
Hs.1524	NM_003811	TNFSF9	Tumor necrosis factor (ligand) superfamily, member 9	-1.488	-2.2035	-1.0916
Hs.134602	NM_003319	TTN	Titin	-3.4695	-1.6123	-6.4992
Hs.592212	NM_001953	TYMP	Thymidine phosphorylase	-1.6064	-2.1916	-2.395

(B means P&gt;0.05)