

Online Supplemental Table S1. The expression level of proteins identified by protein arrays.

Protein name and function	Gene name	ProteinBank TM Accession number	Ratio	P value
			$\frac{EC/SMC}{EC/EC}$	
Interleukin 1 beta	IL-1 β	AAM88883	4.16 \pm 0.12*	0.0002
Interleukin 6	IL-6	AAH15511	4.13 \pm 0.19*	0.001
Basic fibroblast growth factor	bFGF	AAB21432	1.85 \pm 0.07	0.0001
Platelet-derived growth factor BB	PDGF-BB	CAA67262	1.44 \pm 0.04	0.005
Monocyte chemotactic protein 1	MCP-1	AAB29926	1.37 \pm 0.06	0.0082
Growth-related oncogene	GRO	AAA36985	1.35 \pm 0.06	0.0014
Regulated-on-activation normal T cell expressed and secreted chemokine	RANTES	AAC03541	1.32 \pm 0.20	0.038
Stromal derived factor 1	SDF-1	P48061	1.25 \pm 0.01	0.0000
Thymus and activation-regulated chemokine	TARC	Q92583	1.21 \pm 0.02	0.00042
Cuteaneous T-cell attracting chemokine	CTACK	Q9Y4X3	1.20 \pm 0.02	0.121
Neutrophil-activating peptide 78	ENA-78	CAA55355	1.20 \pm 0.04	0.006
Nerve growth factor B	b-NGF	AAD55975	1.19 \pm 0.01	0.009
30 kDa adipocyte complement-related protein	Acrp30	Q15848	1.18 \pm 0.03	0.00005
Transforming growth factor beta 1	TGF- β 1	AAL27646	1.17 \pm 0.02	0.0001
Intercellular adhesion molecule 3	ICAM-3	AAB27451	1.16 \pm 0.04	0.038
Epidermal growth factor receptor	EGF-R	AAB19486	1.15 \pm 0.05	0.08
Transforming growth factor beta 3	TGF- β 3	AAQ98616	1.15 \pm 0.02	0.014
Stem cell factor	SCF	AAD22048	1.15 \pm 0.01	0.001
Tissue inhibitor of metalloproteases 3	TIMP-3	NP_000353	1.14 \pm 0.03	0.001
Tyrosine-protein kinase DTK	Dtk	Q06418	1.13 \pm 0.01	0.097

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Insulin-like growth factor binding protein 6	IGFBP-6	CAA46088	1.08 ± 0.04	0.152
Angiogenin	Ang	AAL67714	1.08 ± 0.02	0.07
Fit-3 ligand	Fit-3 ligand	P19099	1.07 ± 0.02	0.003
Tumor necrosis factor beta	TNF-β	AAD18092	1.07 ± 0.04	0.046
Eotaxin 2	Eotaxin-2	O00175	1.07 ± 0.03	0.341
Fibroblast growth factor 4	FGF-4	CAA74200	1.05 ± 0.05	0.268
CX3C chemokine receptor 1 (Fractalkine receptor)	Fractalkine	P49238	1.05 ± 0.12	0.01
Amphiregulin	Amphiregulin	AAA51781	1.05 ± 0.01	0.346
Interleukin 1 alpha	IL-1α	CAA27448	1.04 ± 0.04	0.284
Leptin	Leptin	AAY46797	1.03 ± 0.05	0.383
Auxin-independent growth promoter	Axi	BAB09990	1.03 ± 0.04	0.531
BDNF	BDNF	CAA62632	1.03 ± 0.01	0.144
Interferon-inducible T cell alpha chemoattractant	I-TAC	AAK52900	1.03 ± 0.02	0.328
Thymus expressed chemokine	TECK	O15444	1.03 ± 0.01	0.452
Monocyte chemotactic protein 3	MCP-3	P80098	1.02 ± 0.02	0.725
Interleukin 8	IL-8	CAA77745	1.02 ± 0.04	0.616
Betacellulin	BTC	AAB25452	1.01 ± 0.05	0.800
Agouti related protein	AgRP	AAK96256	1.01 ± 0.01	0.783
Macrophage inflammatory protein 1 alpha	MIP-1α	AAB25757	1.00 ± 0.02	0.812
Fibroblast growth factor 6	FGF-6	AAS79318	1.00 ± 0.02	0.907

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Interleukin 6 receptor	IL-6R	CAA41231	1.00 ± 0.01	0.957
Fibroblast growth factor 7	FGF-7	CAG46799	1.00 ± 0.02	0.893
Interleukin 18	IL-18	AAH07461	0.99 ± 0.06	0.935
Tumor necrosis factor alpha	TNF- α	CAA26669	0.99 ± 0.01	0.676
CC chemokine ligand 28	CCL-28	Q9NRJ3	0.98 ± 0.03	0.667
Tumor necrosis factor receptor 1 precursor	sTNF RI	NP_001056	0.98 ± 0.01	0.898
Eotaxin 3	Eotaxin-3	BAA36704	0.98 ± 0.03	0.816
Tumor necrosis factor ligand superfamily member 6	Fas/TNFRSF6	P48023	0.98 ± 0.04	0.615
Insulin-like growth factor binding protein 3	IGFBP-3	CAA07346	0.98 ± 0.03	0.507
Macrophage stimulatory protein alpha	MSP- α	P26927	0.97 ± 0.02	0.332
Monocyte chemotactic protein 2	MCP-2	P80075	0.96 ± 0.06	0.564
Thrombopoietin	Thrombopoietin	BAA06807	0.96 ± 0.03	0.537
Tissue inhibitor of metalloproteases 1	TIMP-1	AAB19718	0.96 ± 0.01	0.261
Interleukin 15	IL-15	AAU21241	0.96 ± 0.01	0.441
Soluble glycoprotein 130	sgp130	P40189	0.96 ± 0.02	0.157
Interleukin 2 receptor alpha-subunit	IL-2R α	AAB20279	0.95 ± 0.03	0.117
Monocyte chemotactic protein 4	MCP-4	Q99616	0.95 ± 0.03	0.338
Intercellular adhesion molecule 1	ICAM-1	CAA41977	0.95 ± 0.02	0.035
Lymphotactin precursor	Lymphotactin	AAC50164	0.95 ± 0.02	0.169
Fibroblast growth factor 9	FGF-9	BAA03572	0.95 ± 0.04	0.142

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TNF-related apoptosis-inducing ligand receptor 3	TRAIL R3	AAM82564	0.94 ± 0.06	0.355
p53-associated parkin-like cytoplasmic protein	PARC	AAH02879	0.94 ± 0.02	0.204
Granulocyte-Colony Stimulating Factor	GCSF	AAB27157	0.94 ± 0.03	0.060
PIGF	PIGF	CAG33281	0.93 ± 0.01	0.038
Macrophage inflammatory protein 1 beta	MIP-1 β	P13236	0.93 ± 0.04	0.157
Insulin-like growth factor 1 (somatomedin C)	IGF-1 SR	NP_000609	0.93 ± 0.02	0.070
Small inducible cytokine B13 precursor (CXCL13)	BLC	O43927	0.92 ± 0.01	0.006
HGF	HGF protein	AAI05798	0.92 ± 0.02	0.014
Growth-related oncogene alpha	GRO- α	AAP13103	0.91 ± 0.02	0.147
Interleukin 1 receptor, type I	IL-1 R1	NP_032388	0.91 ± 0.01	0.143
Granulocyte chemotactic protein 2	GCP-2	CAA70023	0.91 ± 0.02	0.002
Interleukin 16	IL-16	AAH40272	0.91 ± 0.03	0.030
Tumor necrosis factor receptor 2 precursor	sTNF RII	NP_001057	0.90 ± 0.06	0.048
Interleukin 1 receptor antagonist isoform 4	IL-1R4/ST2	NP_776215	0.89 ± 0.02	0.008
Oncostatin M	Oncostatin M	AAD31435	0.89 ± 0.02	0.011
Urokinase-type plasminogen activator receptor	uPAR	AAF71751	0.89 ± 0.04	0.025
Macrophage inflammatory protein 3 beta	MIP-3 β	Q99731	0.88 ± 0.03	0.009
Interleukin 12 p40	IL-12 p40	NP_000873	0.88 ± 0.05	0.077
Osteoprotegerin	Osteoprotegerin	AAF20168	0.87 ± 0.03	0.001
Neurotrophin 4	NT-4	AAA60154	0.87 ± 0.03	0.017

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Insulin-like growth factor 1	IGF-1	CAA40342	0.87 ± 0.03	0.083
Human CC chemokine 4	HCC-4	O15467	0.86 ± 0.01	0.002
Glucocorticoid-induced TNF-related ligand	GITR-Ligand	Q9UNG2	0.86 ± 0.04	0.007
Ciliary neurotrophic factor	CNTF	CAA43009	0.85 ± 0.02	0.003
Vascular endothelial growth factor D	VEGF-D	CAA03942	0.85 ± 0.06	0.068
Macrophage-derived chemokine precursor	MDC	AAB58360	0.85 ± 0.05	0.013
TNF-related apoptosis-inducing ligand receptor 4	TRAIL R4	Q9UBN6	0.84 ± 0.03	0.002
Interleukin 17	IL-17	CAI16678	0.84 ± 0.01	0.0004
Glucocorticoid-induced TNFR-related protein	GITR	Q9Y5U5	0.83 ± 0.01	0.001
Glial cell derived neurotrophic factor	GDNF	CAG46721	0.83 ± 0.02	0.01
Angiogenin 2	Angiogenin-2	AAL67711	0.82 ± 0.01	0.002
Vascular endothelial growth factor	VEGF	AAA35789	0.82 ± 0.02	0.058
IL13 protein	IL-13	AAH96141	0.82 ± 0.02	0.001
Epidermal growth factor	EGF	AAS83395	0.81 ± 0.01	0.001
Interleukin 11	IL-11	AAO13493	0.81 ± 0.01	0.001
Interleukin 10	IL-10	CAA55201	0.81 ± 0.02	0.009
Interleukin 7	IL-7	AAC63047	0.80 ± 0.03	0.001
Interleukin 12 p70	IL-12 p70	NP_002178	0.79 ± 0.04	0.005
Interleukin 1 receptor antagonist	IL-1ra	AAB41943	0.79 ± 0.03	0.001
Insulin-like growth factor binding protein-2	IGFBP-2	AAB22308	0.78 ± 0.03	0.0001

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GM-colony stimulating factor	GM-CSF	AAA52578	0.78 ± 0.03	0.001
Insulin-like growth factor binding protein 1	IGFBP-1	AAV38491	0.78 ± 0.03	0.003
Eotaxin 1	Eotaxin-1	BAA08370	0.78 ± 0.02	0.03
Neutrophil activating peptide 2	NAP-2	P02775	0.78 ± 0.03	0.0004
Monokine induced by interferon-gamma	MIG	P18340	0.77 ± 0.05	0.003
Insulin-like growth factor binding protein 4	IGFBP-4	AAV38694	0.77 ± 0.03	0.001
Bone morphogenetic protein 4	BMP-4	BAA06410	0.75 ± 0.02	0.002
Neurotrophin 3	NT-3	AAA59953	0.73 ± 0.01	0.003
Interferon, gamma	IFN- γ	NP_000610	0.73 ± 0.02	0.01
Macrophage inflammatory protein 3 alpha	MIP-3 α	AAC50943	0.73 ± 0.02	0.06
Macrophage colony-stimulating factor	M-CSF	AAA59572	0.72 ± 0.02	0.002
Bone morphogenetic protein 6	BMP-6	AAC33283	0.72 ± 0.02	0.003
I-309	I-309	BAC98367	0.70 ± 0.02	0.012
Macrophage inflammatory protein 1 delta	MIP-1 δ	AAC03539	0.69 ± 0.04	0.036
Macrophage migration inhibitory factor	MIF	CAG30406	0.69 ± 0.03	0.0002
Interleukin 5	IL-5	AAH66282	0.67 ± 0.02	0.0006
Interleukin 2	IL-2	CAA25742	0.62 ± 0.01	0.0053
Interleukin 3	IL-3	AAK38378	0.58 ± 0.05	0.012
Interleukin 4	IL-4	CAA57444	0.58 ± 0.01	0.007
Small inducible cytokine A19 precursor	CK β B-1	Q99731	0.56 ± 0.01	0.0004