

Supplementary Materials for

Molecular phenotyping of the surfaceome of migratory chondroprogenitors and mesenchymal stem cells using biotinylation, glycocapture and quantitative LC-MS/MS proteomic analysis

Csaba Matta*, David J. Boockock, Christopher R. Fellows, Nicolai Miosge, James E. Dixon, Susan Liddell, Julia Smith & Ali Mobasher*^{*}

^{*}Corresponding authors. E-mail: matta.csaba@med.unideb.hu (C.M.), ali.mobasher.manuscripts@gmail.com (A.M.)

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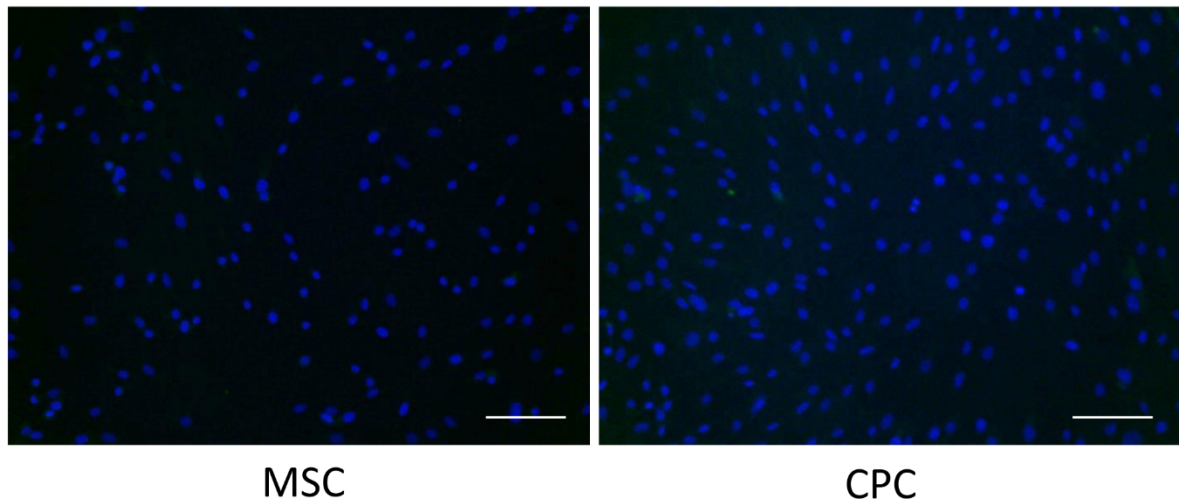


Fig. S1. Negative control experiments for the immunocytochemical detection of intracellular distribution of KCNMA1 in MSCs and CPCs. Cells were incubated with the Alexa488-conjugated anti-rabbit secondary antibodies only (no primary antibodies were added). Nuclear DNA was stained with DAPI. Data shown are representative out of 3 independent experiments. Scale bar, 100 μ m.

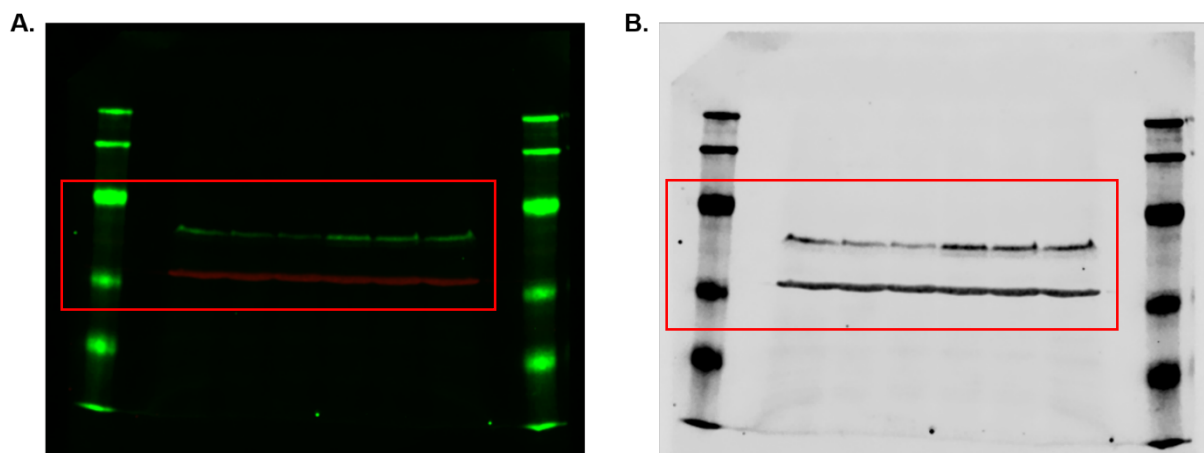


Fig. S2. Uncropped membrane images for KCNMA1 immunoblot experiments. A. KCNMA1 (green) and β -actin (red) bands visualised using the Odyssey[®] FC imaging system. Bands were detected using the 800 nm (for KCNMA1) and 700 nm (for β -actin) channels. B. Image converted to grayscale and then bands for KCNMA1 were cropped as indicated by the red frame and shown in the manuscript in **Figure 5**.

The following Tables (**Tables S1–S6**) were generated using all data from the PEAKS Studio protein identification export. The table of significantly differentially expressed proteins (**Table S7**) utilises the Top 3 peptides from each protein.

Table S1. List of proteins classified as *Transporters* based on GO annotations. Relative expression levels in CPC vs MSC are based on normalised quantitative MS data.

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
P62258	1433E_HUMAN	14-3-3 protein epsilon	106.17	13	12	0	109 000		MSC only
P27348	1433T_HUMAN	14-3-3 protein theta	145.99	36	36	38 000	162 000	-4.26	Down in CPC
P63104	1433Z_HUMAN	14-3-3 protein zeta/delta	120.08	26	32	254 000	95 100	2.67	Up in CPC
P08195	4F2_HUMAN	4F2 cell-surface antigen heavy chain	372.23	51	62	22 800 000	89 500 000	-3.93	Down in CPC
Q15758	AAAT_HUMAN	Neutral amino acid transporter B(0)	283.74	32	43	8 190 000	15 200 000	-1.86	Down in CPC
P78363	ABCA4_HUMAN	Retinal-specific ATP-binding cassette transporter	64.81	1	1	390 000			CPC only
Q86UK0	ABCAC_HUMAN	ATP-binding cassette sub-family A member 12	62.3	1	1	359	3 420	-9.53	Down in CPC
O95342	ABCB_B_HUMAN	Bile salt export pump	63.52	2	2	0			N/A
O60706	ABCC9_HUMAN	ATP-binding cassette sub-family C member 9	52.72	1	1	0			N/A
Q96J66	ABCCB_HUMAN	ATP-binding cassette sub-family C member 11	82.7	11	7	377 000	138 000	2.73	Up in CPC
P12814	ACTN1_HUMAN	Alpha-actinin-1	83.85	0	14		79 800		MSC only
O43707	ACTN4_HUMAN	Alpha-actinin-4	78.19	2	9	10 700	23 900	-2.23	Down in CPC
P07550	ADRB2_HUMAN	Beta-2 adrenergic receptor	47	1	5		34 000		MSC only
P05141	ADT2_HUMAN	ADP/ATP translocase 2	142.5	18	29	246 000	410 000	-1.67	Down in CPC
P16157	ANK1_HUMAN	Ankyrin-1	61.03	2	1	0			N/A
Q01484	ANK2_HUMAN	Ankyrin-2	82.07	2	1	0			N/A
Q12955	ANK3_HUMAN	Ankyrin-3	83.96	1	1	54 700			CPC only
Q4KMQ2	ANO6_HUMAN	Anoctamin-6	190.41	12	22	799 000	588 000	1.36	No change
P07355	ANXA2_HUMAN	Annexin A2	271.24	52	49	4 650 000	7 470 000	-1.61	Down in CPC
P08133	ANXA6_HUMAN	Annexin A6	47.1	0	3		23 700		MSC only
P04114	APOB_HUMAN	Apolipoprotein B-100	76.18	1	1	13 100	209 000	-15.95	Down in CPC
P02649	APOE_HUMAN	Apolipoprotein E	77.45	15	17	38 200	120 000	-3.14	Down in CPC
Q12797	ASPH_HUMAN	Aspartyl/asparaginyl beta-hydroxylase	52.66	1	3		49 000		MSC only
P54707	AT12A_HUMAN	Potassium-transporting ATPase alpha chain 2	106.07	7	8	55 500	224 000	-4.04	Down in CPC
P05023	AT1A1_HUMAN	Sodium/potassium-transporting ATPase subunit alpha-1	277.57	32	31	974 000	1 700 000	-1.75	Down in CPC
P50993	AT1A2_HUMAN	Sodium/potassium-transporting ATPase subunit alpha-2	207.79	16	16	0	278 000		MSC only
P13637	AT1A3_HUMAN	Sodium/potassium-transporting ATPase subunit alpha-3	229.04	19	19	0	71 200		MSC only
Q13733	AT1A4_HUMAN	Sodium/potassium-transporting ATPase subunit alpha-4	166.46	15	14	239 000 000	211 000 000	1.13	No change
P05026	AT1B1_HUMAN	Sodium/potassium-transporting ATPase subunit beta-1	149.44	24	32	417 000	941 000	-2.26	Down in CPC
P54709	AT1B3_HUMAN	Sodium/potassium-transporting ATPase subunit beta-3	223.69	40	57	3 010 000	9 740 000	-3.24	Down in CPC
P20020	AT2B1_HUMAN	Plasma membrane calcium-transporting ATPase 1	236.08	16	22	472 000	664 000	-1.41	No change
Q16720	AT2B3_HUMAN	Plasma membrane calcium-transporting ATPase 3	200.04	8	10	0	11 200		MSC only
P20648	ATP4A_HUMAN	Potassium-transporting ATPase alpha chain 1	118.32	10	10	98 400	3 400 000	-34.55	Down in CPC
P04920	B3A2_HUMAN	Anion exchange protein 2	258.05	27	24	1 320 000	1 100 000	1.20	No change
P48751	B3A3_HUMAN	Anion exchange protein 3	86.91	2	5	21 800	45 500	-2.09	Down in CPC
P35613	BASI_HUMAN	Basigin	277.27	37	42	12 900 000	22 000 000	-1.71	Down in CPC
P54289	CA2D1_HUMAN	Voltage-dependent calcium channel subunit alpha-2/delta-1	261.04	26	28	1 160 000	1 360 000	-1.17	No change
Q9NY47	CA2D2_HUMAN	Voltage-dependent calcium channel subunit alpha-2/delta-2	83.81	3	2	0			N/A

Table S1. List of proteins classified as *Transporters* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
Q7Z3S7	CA2D4_HUMAN	Voltage-dependent calcium channel subunit alpha-2/delta-4	52.74	2	3	155 000	282 000	-1.82	Down in CPC
O00555	CAC1A_HUMAN	Voltage-dependent P/Q-type calcium channel subunit alpha-1A	57.13	0	2		95 200		MSC only
Q13936	CAC1C_HUMAN	Voltage-dependent L-type calcium channel subunit alpha-1C	58.24	1	2	0	0		N/A
Q15878	CAC1E_HUMAN	Voltage-dependent R-type calcium channel subunit alpha-1E	42.96	1	0	0			N/A
O95180	CAC1H_HUMAN	Voltage-dependent T-type calcium channel subunit alpha-1H	58.35	1	0	17 100			CPC only
Q9NV96	CC50A_HUMAN	Cell cycle control protein 50A	157.4	19	21	265 000	362 000	-1.37	Down in CPC
O00299	CLIC1_HUMAN	Chloride intracellular channel protein 1	75.11	10	27	8 170	178 000	-21.79	Down in CPC
P29973	CNGA1_HUMAN	cGMP-gated cation channel alpha-1	32.92	3	1	2 340			CPC only
O15431	COPT1_HUMAN	High affinity copper uptake protein 1	77.42	10	10	52 300	142 000	-2.72	Down in CPC
Q96D31	CRCM1_HUMAN	Calcium release-activated calcium channel protein 1	91.24	13	18	21 200	141 000	-6.65	Down in CPC
Q8IWA5	CTL2_HUMAN	Choline transporter-like protein 2	255.8	14	24	370 000	5 510 000	-14.89	Down in CPC
P35222	CTNB1_HUMAN	Catenin beta-1	57.18	4	3	0			N/A
P30825	CTR1_HUMAN	High affinity cationic amino acid transporter 1	142.2	8	16	8 700 000	1 030 000	8.45	Up in CPC
P52569	CTR2_HUMAN	Cationic amino acid transporter 2	90.06	4	3	0			N/A
O60494	CUBN_HUMAN	Cubilin	48.45	0	1		28 100		MSC only
P43003	EAA1_HUMAN	Excitatory amino acid transporter 1	113.78	0	15		194 000		MSC only
P43005	EAA3_HUMAN	Excitatory amino acid transporter 3	146.61	14	19	1 190 000	236 000	5.04	Up in CPC
Q13642	FHL1_HUMAN	Four and a half LIM domains protein 1	44.08	0	7		139 000		MSC only
P21333	FLNA_HUMAN	Filamin-A	359.24	30	37	4 550 000	7 200 000	-1.58	Down in CPC
P11166	GTR1_HUMAN	Solute carrier family 2 facilitated glucose transporter member 1	153.25	12	14	638 000	809 000	-1.27	No change
P11169	GTR3_HUMAN	Solute carrier family 2 facilitated glucose transporter member 3	97.9	12	7	127 000	109 000	1.17	No change
P08238	HS90B_HUMAN	Heat shock protein HSP 90-beta	209.01	29	30	268 000	446 000	-1.66	Down in CPC
Q14974	IMB1_HUMAN	Importin subunit beta-1	63	3	7	29 500	166 000	-5.63	Down in CPC
P06756	ITAV_HUMAN	Integrin alpha-V	358.52	58	62	12 500 000	22 600 000	-1.81	Down in CPC
Q12791	KCMA1_HUMAN	Calcium-activated potassium channel subunit alpha-1	121.28	7	3	56 300	16 500	3.41	Up in CPC
P63252	KCNJ2_HUMAN	Inward rectifier potassium channel 2	34.42	2	1	8 660			CPC only
O43526	KCNQ2_HUMAN	Potassium voltage-gated channel subfamily KQT member 2	39.02	1	2	262 000			CPC only
Q01650	LAT1_HUMAN	Large neutral amino acids transporter small subunit 1	199.35	11	22	855 000	3 990 000	-4.67	Down in CPC
Q8IWT6	LRC8A_HUMAN	Volume-regulated anion channel subunit LRRC8A	154.95	11	15	248 000	446 000	-1.80	Down in CPC
Q8TDW0	LRC8C_HUMAN	Volume-regulated anion channel subunit LRRC8C	121.19	10	10	275 000	89 700	3.07	Up in CPC
Q7L1W4	LRC8D_HUMAN	Volume-regulated anion channel subunit LRRC8D	75.18	3	4	16 900	17 200	-1.02	No change
Q07954	LRP1_HUMAN	Prolow-density lipoprotein receptor-related protein 1	435.24	31	27	20 400 000	19 200 000	1.06	No change
P98164	LRP2_HUMAN	Low-density lipoprotein receptor-related protein 2	55.07	1	0	0			N/A
Q5S007	LRRK2_HUMAN	Leucine-rich repeat serine/threonine-protein kinase 2	58.27	1	1	98 800			CPC only
P53985	MOT1_HUMAN	Monocarboxylate transporter 1	96.56	4	4	59 900	220 000	-3.67	Down in CPC
O15427	MOT4_HUMAN	Monocarboxylate transporter 4	68.6	0	3		11 100		MSC only
Q00325	MPCP_HUMAN	Phosphate carrier protein mitochondrial	98.25	9	11	84 100	140 000	-1.66	Down in CPC
P20645	MPRD_HUMAN	Cation-dependent mannose-6-phosphate receptor	101.86	12	19	155 000	401 000	-2.59	Down in CPC
P33527	MRP1_HUMAN	Multidrug resistance-associated protein 1	357.42	44	44	11 400 000	6 040 000	1.89	Up in CPC
Q92887	MRP2_HUMAN	Canalicular multispecific organic anion transporter 1	94.25	8	5	25 300	319 000	-12.61	Down in CPC

Table S1. List of proteins classified as *Transporters* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
O15438	MRP3_HUMAN	Canalicular multispecific organic anion transporter 2	209.14	14	14	311 000	1 140 000	-3.67	Down in CPC
O15439	MRP4_HUMAN	Multidrug resistance-associated protein 4	237.13	16	23	2 150 000	6 640 000	-3.09	Down in CPC
Q5T3U5	MRP7_HUMAN	Multidrug resistance-associated protein 7	38.04	1	0	6 470			CPC only
P32418	NAC1_HUMAN	Sodium/calcium exchanger 1	87.7	4	5	19 800	82 900	-4.19	Down in CPC
Q96PU5	NED4L_HUMAN	E3 ubiquitin-protein ligase NEDD4-like	26.4	1	2		0		N/A
Q14957	NMDE3_HUMAN	Glutamate receptor ionotropic NMDA 2C	35.55	1	1	0			N/A
Q9Y639	NPTN_HUMAN	Neuroplastin	208.4	27	37	6 630 000	7 670 000	-1.16	No change
Q96RD7	PANX1_HUMAN	Pannexin-1	75.23	2	8	25 200	110 000	-4.37	Down in CPC
Q92508	PIEZ1_HUMAN	Piezo-type mechanosensitive ion channel component 1	279.67	16	18	1 650 000	2 920 000	-1.77	Down in CPC
P98161	PKD1_HUMAN	Polycystin-1	85.94	1	2	37 600	0		CPC only
P62937	PPIA_HUMAN	Peptidyl-prolyl cis-trans isomerase A	107.15	18	30	244 000	673 000	-2.76	Down in CPC
P04156	PRIO_HUMAN	Major prion protein	144.6	20	22	1 480 000	955 000	1.55	Up in CPC
P20338	RAB4A_HUMAN	Ras-related protein Rab-4A	62.69	9	7	0			N/A
P62834	RAP1A_HUMAN	Ras-related protein Rap-1A	46.2	7	14	13 400	5 820	2.30	Up in CPC
Q86UR5	RIMS1_HUMAN	Regulating synaptic membrane exocytosis protein 1	44.31	1	1	12 600			CPC only
Q9UQ26	RIMS2_HUMAN	Regulating synaptic membrane exocytosis protein 2	43.93	3	0	440 000			CPC only
P21817	RYR1_HUMAN	Ryanodine receptor 1	86.43	1	2	67 500	97 800	-1.45	No change
Q92736	RYR2_HUMAN	Ryanodine receptor 2	89.7	1	1	85 900			CPC only
P60903	S10AA_HUMAN	Protein S100-A10	100.24	41	35	431 000	669 000	-1.55	Down in CPC
Q13621	S12A1_HUMAN	Solute carrier family 12 member 1	96.75	4	2	35 700			CPC only
P55011	S12A2_HUMAN	Solute carrier family 12 member 2	264.7	26	35	2 010 000	3 390 000	-1.69	Down in CPC
Q9UP95	S12A4_HUMAN	Solute carrier family 12 member 4	199.94	17	24	245 000	813 000	-3.32	Down in CPC
Q9UHW9	S12A6_HUMAN	Solute carrier family 12 member 6	102.5	6	4	4 900			CPC only
Q9Y666	S12A7_HUMAN	Solute carrier family 12 member 7	155.98	11	22	236 000	1 090 000	-4.62	Down in CPC
Q8WUM9	S20A1_HUMAN	Sodium-dependent phosphate transporter 1	52.67	0	2		46 400		MSC only
Q9UGH3	S23A2_HUMAN	Solute carrier family 23 member 2	67.28	7	3	39 500	28 400	1.39	No change
P50443	S26A2_HUMAN	Sulfate transporter	59.8	4	3	9 000	45 500	-5.06	Down in CPC
Q99808	S29A1_HUMAN	Equilibrative nucleoside transporter 1	164.03	17	16	234 000	448 000	-1.91	Down in CPC
Q96QD8	S38A2_HUMAN	Sodium-coupled neutral amino acid transporter 2	188.32	12	20	367 000	2 400 000	-6.54	Down in CPC
Q8WUX1	S38A5_HUMAN	Sodium-coupled neutral amino acid transporter 5	85.45	8	1	122 000			CPC only
Q15043	S39AE_HUMAN	Zinc transporter ZIP14	177.53	15	20	1 690 000	1 560 000	1.08	No change
Q6U841	S4A10_HUMAN	Sodium-driven chloride bicarbonate exchanger	113.28	9	6	39 600	8 610	4.60	Up in CPC
Q9Y6R1	S4A4_HUMAN	Electrogenic sodium bicarbonate cotransporter 1	177.9	10	18	115 000	590 000	-5.13	Down in CPC
Q9Y6M7	S4A7_HUMAN	Sodium bicarbonate cotransporter 3	236.1	26	23	1 170 000	1 460 000	-1.25	No change
Q2Y0W8	S4A8_HUMAN	Electroneutral sodium bicarbonate exchanger 1	108.23	6	5	478 000	93 900	5.09	Up in CPC
P43007	SATT_HUMAN	Neutral amino acid transporter A	261.36	30	31	1 400 000	2 530 000	-1.81	Down in CPC
P53794	SC5A3_HUMAN	Sodium/myo-inositol cotransporter	131.66	14	14	199 000	1 500 000	-7.54	Down in CPC
Q9Y289	SC5A6_HUMAN	Sodium-dependent multivitamin transporter	128.81	9	9	189 000	264 000	-1.40	No change
P31641	SC6A6_HUMAN	Sodium- and chloride-dependent taurine transporter	108.48	9	9	232 000	295 000	-1.27	No change
P48067	SC6A9_HUMAN	Sodium- and chloride-dependent glycine transporter 1	83.89	3	4	142 000	76 400	1.86	Up in CPC

Table S1. List of proteins classified as *Transporters* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
Q9UQD0	SCN8A_HUMAN	Sodium channel protein type 8 subunit alpha	25.32	1	0	9 550			CPC only
P37088	SCNNA_HUMAN	Amiloride-sensitive sodium channel subunit alpha	43.48	1	1	0			N/A
P19634	SL9A1_HUMAN	Sodium/hydrogen exchanger 1	156.95	19	14	683 000	502 000	1.36	No change
Q92581	SL9A6_HUMAN	Sodium/hydrogen exchanger 6	83.6	3	7	9 860	156 000	-15.82	Down in CPC
P02786	TFR1_HUMAN	Transferrin receptor protein 1	308.46	50	55	7 140 000	13 300 000	-1.86	Down in CPC
O94759	TRPM2_HUMAN	Transient receptor potential cation channel subfamily M member 2	58.65	1	1	7 010			CPC only
Q8TD43	TRPM4_HUMAN	Transient receptor potential cation channel subfamily M member 4	47.94	0	2		4 940		MSC only
P21796	VDAC1_HUMAN	Voltage-dependent anion-selective channel protein 1	29.83	2	3		2 610 000		MSC only
P45880	VDAC2_HUMAN	Voltage-dependent anion-selective channel protein 2	156.72	24	38	341 000	815 000	-2.39	Down in CPC
Q9Y277	VDAC3_HUMAN	Voltage-dependent anion-selective channel protein 3	63.98	4	5		42 300		MSC only
Q9Y3S1	WNK2_HUMAN	Serine/threonine-protein kinase WNK2	30.74	0	1		0		N/A
P55060	XPO2_HUMAN	Exportin-2	72.7	1	3		39 000		MSC only
Q9Y6M5	ZNT1_HUMAN	Zinc transporter 1	165.06	25	24	410 000	975 000	-2.38	Down in CPC

Table S2. List of proteins classified as *Receptors* based on GO annotations. Relative expression levels in CPC vs MSC are based on normalised quantitative MS data.

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
P01891	1A68_HUMAN	HLA class I histocompatibility antigen A-68 alpha chain	277.41	33	48		1 610 000		MSC only
Q15758	AAAT_HUMAN	Neutral amino acid transporter B(0)	283.74	32	43	8 190 000	15 200 000	-1.86	Down in CPC
Q86UK0	ABCAC_HUMAN	ATP-binding cassette sub-family A member 12	62.3	1	1	359	3 420	-9.53	Down in CPC
O60706	ABCC9_HUMAN	ATP-binding cassette sub-family C member 9	52.72	1	1	0			N/A
P12821	ACE_HUMAN	Angiotensin-converting enzyme	146.61	4	15	442 000	1 450 000	-3.28	Down in CPC
Q07912	ACK1_HUMAN	Activated CDC42 kinase 1	51.4	3	1	29 200			CPC only
P12814	ACTN1_HUMAN	Alpha-actinin-1	83.85	0	14		79 800		MSC only
O43707	ACTN4_HUMAN	Alpha-actinin-4	78.19	2	9	10 700	23 900	-2.23	Down in CPC
O14672	ADA10_HUMAN	Disintegrin and metalloproteinase domain-containing protein 10	152.88	12	15	123 000	509 000	-4.14	Down in CPC
P78536	ADA17_HUMAN	Disintegrin and metalloproteinase domain-containing protein 17	152.65	7	10	250 000	174 000	1.44	No change
P07550	ADRB2_HUMAN	Beta-2 adrenergic receptor	47	1	5		34 000		MSC only
O14514	AGRB1_HUMAN	Adhesion G protein-coupled receptor B1	63.23	1	2		26 900		MSC only
O95490	AGRL2_HUMAN	Adhesion G protein-coupled receptor L2	70.25	3	1	680 000			CPC only
Q9UM73	ALK_HUMAN	ALK tyrosine kinase receptor	67.02	4	1	35 100	0		CPC only
P15144	AMPN_HUMAN	Aminopeptidase N	434.11	69	53	149 000 000	67 700 000	2.20	Up in CPC
P30533	AMRP_HUMAN	Alpha-2-macroglobulin receptor-associated protein	67.55	10	4	86 600	50 300	1.72	Up in CPC
P20594	ANPRB_HUMAN	Atrial natriuretic peptide receptor 2	150.62	9	11	1 780 000	163 000	10.92	Up in CPC
P17342	ANPRC_HUMAN	Atrial natriuretic peptide receptor 3	141.7	7	23	14 600	886 000	-60.68	Down in CPC
Q9H6X2	ANTR1_HUMAN	Anthrax toxin receptor 1	139.96	11	17	90 500	1 100 000	-12.15	Down in CPC
P58335	ANTR2_HUMAN	Anthrax toxin receptor 2	127.95	12	10	329 000	385 000	-1.17	No change
P04083	ANXA1_HUMAN	Annexin A1	168.9	32	29	330 000	246 000	1.34	No change
P08133	ANXA6_HUMAN	Annexin A6	47.1	0	3		23 700		MSC only
P04114	APOB_HUMAN	Apolipoprotein B-100	76.18	1	1	13 100	209 000	-15.95	Down in CPC
P02656	APOC3_HUMAN	Apolipoprotein C-III	58.33	16	16	176 000	80 100	2.20	Up in CPC
P02649	APOE_HUMAN	Apolipoprotein E	77.45	15	17	38 200	120 000	-3.14	Down in CPC
Q96P48	ARAP1_HUMAN	Arf-GAP with Rho-GAP domain ANK repeat and PH domain-containing protein 1	32.95	0	1		86 400		MSC only
P16615	AT2A2_HUMAN	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	100.63	2	6	7 260	16 600	-2.29	Down in CPC
O75882	ATRN_HUMAN	Attractin	40.51	2	1	47 700			MSC only
P50895	BCAM_HUMAN	Basal cell adhesion molecule	227.6	22	36	269 000	1 990 000	-7.40	Down in CPC
P30411	BKRB2_HUMAN	B2 bradykinin receptor	72.37	0	6		61 800		MSC only
P36894	BMR1A_HUMAN	Bone morphogenetic protein receptor type-1A	26.23	0	2		19 000		MSC only
P38398	BRCA1_HUMAN	Breast cancer type 1 susceptibility protein	52.02	1	1	92 700			CPC only
Q7KYR7	BT2A1_HUMAN	Butyrophilin subfamily 2 member A1	81.84	2	13		140 000		MSC only
Q86VB7	C163A_HUMAN	Scavenger receptor cysteine-rich type 1 protein M130	54.39	1	2		28 700		MSC only
Q9BY67	CADM1_HUMAN	Cell adhesion molecule 1	260.09	36	18	5 820 000	234 000	24.87	Up in CPC
P04040	CATA_HUMAN	Catalase	63.05	3	3	0	3 790		MSC only
P48509	CD151_HUMAN	CD151 antigen	34.01	4	4	220 000	220 000	1.00	No change

Table S2. List of proteins classified as *Receptors* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
Q13740	CD166_HUMAN	CD166 antigen	355.25	52	55	19 500 000	45 000 000	-2.31	Down in CPC
Q5ZPR3	CD276_HUMAN	CD276 antigen	265.02	26	29	4 720 000	4 130 000	1.14	No change
P16070	CD44_HUMAN	CD44 antigen	293.92	29	27	62 700 000	96 000 000	-1.53	Down in CPC
Q08722	CD47_HUMAN	Leukocyte surface antigen CD47	84.74	9	11	527 000	362 000	1.46	No change
P60033	CD81_HUMAN	CD81 antigen	38.15	8	8	23 900	18 500	1.29	No change
P48960	CD97_HUMAN	CD97 antigen	279.95	18	23	2 560 000	5 760 000	-2.25	Down in CPC
Q9NYQ7	CELRL3_HUMAN	Cadherin EGF LAG seven-pass G-type receptor 3	69.85	1	2		361 000		MSC only
Q00610	CLH1_HUMAN	Clathrin heavy chain 1	55.19	0	2		10 300		MSC only
Q99788	CML1_HUMAN	Chemokine-like receptor 1	27.34	0	5		6 100		MSC only
A5YKK6	CNOT1_HUMAN	CCR4-NOT transcription complex subunit 1	71.64	1	2		10 900		MSC only
P23528	COF1_HUMAN	Cofilin-1	149.78	20	46	282 000	1 100 000	-3.90	Down in CPC
Q5KU26	COL12_HUMAN	Collectin-12	121.77	2	8		320 000		MSC only
P35222	CTNB1_HUMAN	Catenin beta-1	57.18	4	3	0			N/A
O60716	CTND1_HUMAN	Catenin delta-1	132.96	11	13	221 000	180 000	1.23	No change
O60494	CUBN_HUMAN	Cubilin	48.45	0	1		28 100		MSC only
P08174	DAF_HUMAN	Complement decay-accelerating factor	144.03	12	12	673 000	675 000	1.00	No change
Q14118	DAG1_HUMAN	Dystroglycan	239.26	23	25	2 120 000	4 000 000	-1.89	Down in CPC
Q16832	DDR2_HUMAN	Discoidin domain-containing receptor 2	239.95	25	30	459 000	1 050 000	-2.29	Down in CPC
Q8N110	DOCK4_HUMAN	Dedicator of cytokinesis protein 4	40.37	1	1	0			N/A
P27487	DPP4_HUMAN	Dipeptidyl peptidase 4	282.88	23	39	760 000	10 600 000	-13.95	Down in CPC
Q16610	ECM1_HUMAN	Extracellular matrix protein 1	56.12	5	4	22 800	24 800	-1.09	No change
O43854	EDIL3_HUMAN	EGF-like repeat and discoidin I-like domain-containing protein 3	54.47	1	11	134 000	246 000	-1.84	Down in CPC
P98172	EFNB1_HUMAN	Ephrin-B1	123.08	3	27		118 000		MSC only
P52799	EFNB2_HUMAN	Ephrin-B2	79.39	2	12		59 500		MSC only
Q15768	EFNB3_HUMAN	Ephrin-B3	34.41	4	1	28 800			CPC only
P00533	EGFR_HUMAN	Epidermal growth factor receptor	339.4	33	44	5 790 000	14 900 000	-2.57	Down in CPC
P17813	EGLN_HUMAN	Endoglin	316.98	36	48	2 270 000	14 400 000	-6.34	Down in CPC
P14625	ENPL_HUMAN	Endoplasmin	114.68	10	10	92 500	114 000	-1.23	No change
P22413	ENPP1_HUMAN	Ectonucleotide pyrophosphatase/phosphodiesterase family member 1	263.41	27	35	2 640 000	3 200 000	-1.21	No change
Q9UNN8	EPCR_HUMAN	Endothelial protein C receptor	154.45	29	37	652 000	844 000	-1.29	No change
P29317	EPHA2_HUMAN	Ephrin type-A receptor 2	280.33	19	42	437 000	3 960 000	-9.06	Down in CPC
P29320	EPHA3_HUMAN	Ephrin type-A receptor 3	120.52	10	9	265 000	238 000	1.11	No change
P54764	EPHA4_HUMAN	Ephrin type-A receptor 4	128.81	7	8	756 000	722 000	1.05	No change
P54756	EPHA5_HUMAN	Ephrin type-A receptor 5	169.29	11	14	114 000	147 000	-1.29	No change
Q9UF33	EPHA6_HUMAN	Ephrin type-A receptor 6	100.26	8	4	1 190 000	647 000	1.84	Up in CPC
Q15375	EPHA7_HUMAN	Ephrin type-A receptor 7	113.36	7	8	3 630 000	191 000	19.01	Up in CPC
P29322	EPHA8_HUMAN	Ephrin type-A receptor 8	80.01	4	5	84 000			CPC only
Q5JZY3	EPHAA_HUMAN	Ephrin type-A receptor 10	66.99	6	3	302 000	17 800	16.97	Up in CPC
P54762	EPHB1_HUMAN	Ephrin type-B receptor 1	160.97	12	12	270 000	6 190	43.62	Up in CPC
P29323	EPHB2_HUMAN	Ephrin type-B receptor 2	215.46	20	23	602 000	1 020 000	-1.69	Down in CPC

Table S2. List of proteins classified as *Receptors* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
P54753	EPHB3_HUMAN	Ephrin type-B receptor 3	131.56	9	8	4 680	1 980	2.36	Up in CPC
P54760	EPHB4_HUMAN	Ephrin type-B receptor 4	174.55	10	18	62 600	2 140 000	-34.19	Down in CPC
P42566	EPS15_HUMAN	Epidermal growth factor receptor substrate 15	46.09	1	3		60 500		MSC only
Q9NZ08	ERAP1_HUMAN	Endoplasmic reticulum aminopeptidase 1	46.93	2	2	34 600	22 400	1.54	Up in CPC
P04626	ERBB2_HUMAN	Receptor tyrosine-protein kinase erbB-2	166.68	9	13	151 000	521 000	-3.45	Down in CPC
Q15303	ERBB4_HUMAN	Receptor tyrosine-protein kinase erbB-4	120.81	5	9	0	2 520 000		MSC only
P02751	FINC_HUMAN	Fibronectin	365.38	6	40	49 500	14 600 000	-294.95	Down in CPC
P21333	FLNA_HUMAN	Filamin-A	359.24	30	37	4 550 000	7 200 000	-1.58	Down in CPC
O43155	FLRT2_HUMAN	Leucine-rich repeat transmembrane protein FLRT2	71.97	14	0	241 000			CPC only
Q9UP38	FZD1_HUMAN	Frizzled-1	108.95	10	8	338 000	456 000	-1.35	No change
Q14332	FZD2_HUMAN	Frizzled-2	97.24	5	11		67 700		MSC only
O75084	FZD7_HUMAN	Frizzled-7	90.63	5	7		84 400		MSC only
Q9UQC2	GAB2_HUMAN	GRB2-associated-binding protein 2	31.27	2	1	0			N/A
Q7Z4P5	GDF7_HUMAN	Growth/differentiation factor 7	62.73	4	8		0		N/A
Q03113	GNA12_HUMAN	Guanine nucleotide-binding protein subunit alpha-12	81.18	6	15		28 300		MSC only
Q14344	GNA13_HUMAN	Guanine nucleotide-binding protein subunit alpha-13	71.42	10	3	29 700			CPC only
P63096	GNAI1_HUMAN	Guanine nucleotide-binding protein G(i) subunit alpha-1	80.37	8	12	45 300	128 000	-2.83	Down in CPC
P04899	GNAI2_HUMAN	Guanine nucleotide-binding protein G(i) subunit alpha-2	165.16	23	25	179 000	514 000	-2.87	Down in CPC
Q5JWF2	GNAS1_HUMAN	Guanine nucleotide-binding protein G(s) subunit alpha isoforms Xlas	86.5	5	3	33 200	64 900	-1.95	Down in CPC
P19087	GNAT2_HUMAN	Guanine nucleotide-binding protein G(t) subunit alpha-2	67.96	8	3	0			N/A
Q5T848	GP158_HUMAN	Probable G-protein coupled receptor 158	72.85	2	2	147 000			CPC only
Q14439	GP176_HUMAN	G-protein coupled receptor 176	168.75	18	19	735 000	714 000	1.03	No change
Q9NZH0	GPC5B_HUMAN	G-protein coupled receptor family C group 5 member B	36.36	0	3		0		N/A
Q9Y625	GPC6_HUMAN	Glypican-6	140.2	11	14	143 000	78 500	1.82	Up in CPC
Q8WXG9	GPR98_HUMAN	G-protein coupled receptor 98	85.72	1	1		190 000		MSC only
Q96JK4	HIPL1_HUMAN	HHIP-like protein 1	33.12	2	0	31 700			CPC only
P13747	HLAE_HUMAN	HLA class I histocompatibility antigen alpha chain E	158.81	15	23	0	154 000		MSC only
P17693	HLAG_HUMAN	HLA class I histocompatibility antigen alpha chain G	122.29	20	17	77 400	69 800	1.11	No change
P01893	HLAH_HUMAN	Putative HLA class I histocompatibility antigen alpha chain H	229.92	30	41	78 500	6 880	11.41	Up in CPC
P0DMV8	HS71A_HUMAN	Heat shock 70 kDa protein 1A	92.51	8	12	33 000	137 000	-4.15	Down in CPC
P0DMV9	HS71B_HUMAN	Heat shock 70 kDa protein 1B	92.51	8	12	33 000	137 000	-4.15	Down in CPC
P08238	HS90B_HUMAN	Heat shock protein HSP 90-beta	209.01	29	30	268 000	446 000	-1.66	Down in CPC
P11142	HSP7C_HUMAN	Heat shock cognate 71 kDa protein	167.77	15	29	160 000	390 000	-2.44	Down in CPC
Q14627	I13R2_HUMAN	Interleukin-13 receptor subunit alpha-2	128.27	14	1	267 000			CPC only
P05362	ICAM1_HUMAN	Intercellular adhesion molecule 1	258.48	24	46	200 000	3 530 000	-17.65	Down in CPC
P08069	IGF1R_HUMAN	Insulin-like growth factor 1 receptor	107.59	4	6	30 400	120 000	-3.95	Down in CPC
Q9NPH3	IL1AP_HUMAN	Interleukin-1 receptor accessory protein	145.94	18	20	2 090 000	506 000	4.13	Up in CPC
P40189	IL6RB_HUMAN	Interleukin-6 receptor subunit beta	193	22	21	517 000	767 000	-1.48	Down in CPC
P06213	INSR_HUMAN	Insulin receptor	94.09	5	4	114 000	102 000	1.12	No change
P56199	ITA1_HUMAN	Integrin alpha-1	254.73	13	25	1 010 000	3 630 000	-3.59	Down in CPC

Table S2. List of proteins classified as *Receptors* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
O75578	ITA10_HUMAN	Integrin alpha-10	165.45	7	14	263 000	557 000	-2.12	Down in CPC
Q9UKX5	ITA11_HUMAN	Integrin alpha-11	312.04	31	36	13 600 000	23 900 000	-1.76	Down in CPC
P17301	ITA2_HUMAN	Integrin alpha-2	317.04	38	32	8 960 000	2 160 000	4.15	Up in CPC
P26006	ITA3_HUMAN	Integrin alpha-3	338.92	43	53	9 950 000	22 500 000	-2.26	Down in CPC
P13612	ITA4_HUMAN	Integrin alpha-4	123.76	5	10	90 300	272 000	-3.01	Down in CPC
P08648	ITA5_HUMAN	Integrin alpha-5	379.98	54	51	22 700 000	23 100 000	-1.02	No change
Q13797	ITA9_HUMAN	Integrin alpha-9	48.76	1	2	1 420 000	1 070 000	1.33	No change
P06756	ITAV_HUMAN	Integrin alpha-V	358.52	58	62	12 500 000	22 600 000	-1.81	Down in CPC
P20702	ITAX_HUMAN	Integrin alpha-X	48.79	0	2		1 600 000		MSC only
P05556	ITB1_HUMAN	Integrin beta-1	334.1	44	44	33 200 000	50 100 000	-1.51	Down in CPC
P05106	ITB3_HUMAN	Integrin beta-3	212.68	10	20	124 000	1 230 000	-9.92	Down in CPC
P18084	ITB5_HUMAN	Integrin beta-5	245.84	31	34	2 820 000	2 720 000	1.04	No change
Q9BX67	JAM3_HUMAN	Junctional adhesion molecule C	118.87	16	17	135 000	390 000	-2.89	Down in CPC
P17252	KPCA_HUMAN	Protein kinase C alpha type	35.13	3	0	7 270			CPC only
P24043	LAMA2_HUMAN	Laminin subunit alpha-2	49.12	1	1	443 000	0		CPC only
Q16787	LAMA3_HUMAN	Laminin subunit alpha-3	76.9	1	2	4 810 000	152 000	31.64	Up in CPC
O15230	LAMA5_HUMAN	Laminin subunit alpha-5	66.25	1	1	89 200			CPC only
P55268	LAMB2_HUMAN	Laminin subunit beta-2	57.33	2	1	27 900			CPC only
P11279	LAMP1_HUMAN	Lysosome-associated membrane glycoprotein 1	55.79	2	8	76 500	87 000	-1.14	No change
P18428	LBP_HUMAN	Lipopolysaccharide-binding protein	39.41	2	4		0		N/A
P01130	LDLR_HUMAN	Low-density lipoprotein receptor	184.56	17	18	540 000	344 000	1.57	Up in CPC
P19256	LFA3_HUMAN	Lymphocyte function-associated antigen 3	69.87	5	5	169 000	365 000	-2.16	Down in CPC
Q969X1	LFG3_HUMAN	Protein lifeguard 3	41.68	5	5	21 600	44 700	-2.07	Down in CPC
Q96FE5	LIGO1_HUMAN	Leucine-rich repeat and immunoglobulin-like domain-containing nogo receptor-interacting protein 1	28.12	1	1	0			N/A
Q9Y4K0	LOXL2_HUMAN	Lysyl oxidase homolog 2	48.04	1	3		3 960		MSC only
Q92633	LPAR1_HUMAN	Lysophosphatidic acid receptor 1	97.12	11	17	228 000	3 500 000	-15.35	Down in CPC
Q8TF66	LRC15_HUMAN	Leucine-rich repeat-containing protein 15	146.61	23	21	500 000	481 000	1.04	No change
Q07954	LRP1_HUMAN	Prolow-density lipoprotein receptor-related protein	435.24	31	27	20 400 000	19 200 000	1.06	No change
P98164	LRP2_HUMAN	Low-density lipoprotein receptor-related protein 2	55.07	1	0	0			N/A
Q96NW7	LRRC7_HUMAN	Leucine-rich repeat-containing protein 7	43.01	1	0		487 000		MSC only
Q5S007	LRRK2_HUMAN	Leucine-rich repeat serine/threonine-protein kinase 2	58.27	1	1	98 800			CPC only
Q8N2S1	LTBP4_HUMAN	Latent-transforming growth factor beta-binding protein 4	59.59	1	1		0		N/A
P08581	MET_HUMAN	Hepatocyte growth factor receptor	209.7	16	24	475 000	1 430 000	-3.01	Down in CPC
Q08431	MFGM_HUMAN	Lactadherin	122.38	6	13	15 000	66 600	-4.44	Down in CPC
P50281	MMP14_HUMAN	Matrix metalloproteinase-14	279.95	47	41	5 830 000	8 110 000	-1.39	No change
P20645	MPRD_HUMAN	Cation-dependent mannose-6-phosphate receptor	101.86	12	19	155 000	401 000	-2.59	Down in CPC
P11717	MPRI_HUMAN	Cation-independent mannose-6-phosphate receptor	279.71	16	19	769 000	1 280 000	-1.66	Down in CPC
P22897	MRC1_HUMAN	Macrophage mannose receptor 1	32.34	0	1		16 100		MSC only
Q96AM1	MRGRF_HUMAN	Mas-related G-protein coupled receptor member F	72.72	7	7	140 000	79 900	1.75	Up in CPC
P35579	MYH9_HUMAN	Myosin-9	293	17	32	313 000	2 600 000	-8.31	Down in CPC

Table S2. List of proteins classified as *Receptors* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
P13591	NCAM1_HUMAN	Neural cell adhesion molecule 1	287.44	12	46	493 000	10 900 000	-22.11	Down in CPC
Q9Y6Q9	NCOA3_HUMAN	Nuclear receptor coactivator 3	44.41	2	0	10 600			CPC only
Q15223	NECT1_HUMAN	Nectin-1	96.31	6	12	286 000	101 000	2.83	Up in CPC
Q92692	NECT2_HUMAN	Nectin-2	223.15	12	40	172 000	1 410 000	-8.20	Down in CPC
Q9NQS3	NECT3_HUMAN	Nectin-3	217.22	27	29	12 700 000	2 200 000	5.77	Up in CPC
Q92859	NEO1_HUMAN	Neogenin	113.33	2	6	35 700	57 600	-1.61	Down in CPC
Q14957	NMDE3_HUMAN	Glutamate receptor ionotropic NMDA 2C	35.55	1	1	0			N/A
P35228	NOS2_HUMAN	Nitric oxide synthase inducible	25.82	0	1		11 500		MSC only
Q04721	NOTC2_HUMAN	Neurogenic locus notch homolog protein 2	204.21	8	9	608 000	1 280 000	-2.11	Down in CPC
Q9Y639	NPTN_HUMAN	Neuroplastin	208.4	27	37	6 630 000	7 670 000	-1.16	No change
O14786	NRP1_HUMAN	Neuropilin-1	350.27	53	52	14 200 000	14 700 000	-1.04	No change
O60462	NRP2_HUMAN	Neuropilin-2	176.38	23	18	861 000	737 000	1.17	No change
Q96RD7	PANX1_HUMAN	Pannexin-1	75.23	2	8	25 200	110 000	-4.37	Down in CPC
P07237	PDIA1_HUMAN	Protein disulfide-isomerase	65.5	3	11	9 220	352 000	-38.18	Down in CPC
P16234	PGFRA_HUMAN	Platelet-derived growth factor receptor alpha	234.72	23	18	1 110 000	964 000	1.15	No change
P09619	PGFRB_HUMAN	Platelet-derived growth factor receptor beta	268.7	27	30	2 630 000	5 330 000	-2.03	Down in CPC
P08F94	PKHD1_HUMAN	Fibrocystin	67.53	1	1		48 200		MSC only
P14923	PLAK_HUMAN	Junction plakoglobin	172.09	20	17	959 000	525 000	1.83	Up in CPC
Q9UIW2	PLXA1_HUMAN	Plexin-A1	239.05	20	16	981 000	741 000	1.32	No change
O75051	PLXA2_HUMAN	Plexin-A2	150.23	4	6	17 700	67 400	-3.81	Down in CPC
P51805	PLXA3_HUMAN	Plexin-A3	185.54	7	8	22 900	92 400	-4.03	Down in CPC
O43157	PLXB1_HUMAN	Plexin-B1	56.43	1	1		3 000		MSC only
O15031	PLXB2_HUMAN	Plexin-B2	321.35	27	33	2 950 000	5 420 000	-1.84	Down in CPC
Q9ULL4	PLXB3_HUMAN	Plexin-B3	74.54	2	1	31 200			CPC only
Q9Y4D7	PLXD1_HUMAN	Plexin-D1	249.95	7	20	160 000	1 910 000	-11.94	Down in CPC
P04156	PRIO_HUMAN	Major prion protein	144.6	20	22	1 480 000	955 000	1.55	Up in CPC
Q9Y6C5	PTC2_HUMAN	Protein patched homolog 2	67.38	1	2		0		N/A
Q13308	PTK7_HUMAN	Inactive tyrosine-protein kinase 7	309.11	24	36	1 210 000	9 630 000	-7.96	Down in CPC
P18433	PTPRA_HUMAN	Receptor-type tyrosine-protein phosphatase alpha	149.02	16	14	838 000	699 000	1.20	No change
P23467	PTPRB_HUMAN	Receptor-type tyrosine-protein phosphatase beta	66.7	2	2	363 000			CPC only
P23469	PTPRE_HUMAN	Receptor-type tyrosine-protein phosphatase epsilon	104.65	2	8	102 000	212 000	-2.08	Down in CPC
P10586	PTPRF_HUMAN	Receptor-type tyrosine-protein phosphatase F	70.93	1	4		39 700		MSC only
P23470	PTPRG_HUMAN	Receptor-type tyrosine-protein phosphatase gamma	264.18	13	23	841 000	3 940 000	-4.68	Down in CPC
Q12913	PTPRJ_HUMAN	Receptor-type tyrosine-protein phosphatase eta	200.42	6	12	87 700	523 000	-5.96	Down in CPC
Q15262	PTPRK_HUMAN	Receptor-type tyrosine-protein phosphatase kappa	147.38	7	9	81 500	1 200 000	-14.72	Down in CPC
P28827	PTPRM_HUMAN	Receptor-type tyrosine-protein phosphatase mu	43.39	2	1	19 600			CPC only
P15151	PVR_HUMAN	Poliovirus receptor	118.11	10	11	611 000	980 000	-1.60	Down in CPC
P20338	RAB4A_HUMAN	Ras-related protein Rab-4A	62.69	9	7	0			N/A
Q92930	RAB8B_HUMAN	Ras-related protein Rab-8B	78.59	11	16		6 350		MSC only
Q8NFJ5	RAI3_HUMAN	Retinoic acid-induced protein 3	80.41	4	5	0	78 200		MSC only

Table S2. List of proteins classified as *Receptors* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
Q6ZVN8	RGMC_HUMAN	Hemojuvelin	43.99	2	4		0		N/A
Q9Y6N7	ROBO1_HUMAN	Roundabout homolog 1	213.04	15	17	34 600 000	35 000 000	-1.01	No change
Q9HCK4	ROBO2_HUMAN	Roundabout homolog 2	67.36	2	5	4 520 000	4 490 000	1.01	No change
Q8WZ75	ROBO4_HUMAN	Roundabout homolog 4	36.44	1	1	7 430			CPC only
P08922	ROS1_HUMAN	Proto-oncogene tyrosine-protein kinase ROS	79.09	2	2	955 000	588 000	1.62	Up in CPC
Q8WUM9	S20A1_HUMAN	Sodium-dependent phosphate transporter 1	52.67	0	2		46 400		MSC only
Q13275	SEM3F_HUMAN	Semaphorin-3F	39.49	1	1		125 000		MSC only
O75326	SEM7A_HUMAN	Semaphorin-7A	232.19	29	40	1 720 000	2 640 000	-1.53	Down in CPC
Q12884	SEPR_HUMAN	Prolyl endopeptidase FAP	265.84	40	37	3 870 000	6 550 000	-1.69	Down in CPC
P50454	SERPH_HUMAN	Serpin H1	161.59	24	29	590 000	631 000	-1.07	No change
Q9Y566	SHAN1_HUMAN	SH3 and multiple ankyrin repeat domains protein 1	68.28	2	1		0		N/A
P29353	SHC1_HUMAN	SHC-transforming protein 1	49.46	2	6		4 000 000		MSC only
P51532	SMCA4_HUMAN	Transcription activator BRG1	56.7	2	1	32 800			CPC only
Q99523	SORT_HUMAN	Sortilin	81.21	2	3	0	36 800		MSC only
P29508	SPB3_HUMAN	Serpin B3	36.82	0	6		74 900		MSC only
Q13501	SQSTM_HUMAN	Sequestosome-1	39.93	2	3		12 500		MSC only
Q12846	STX4_HUMAN	Syntaxin-4	23.26	6	0	10 200			CPC only
Q9UGT4	SUSD2_HUMAN	Sushi domain-containing protein 2	39.86	1	2		5 210		MSC only
Q9UQP3	TENN_HUMAN	Tenascin-N	52.84	2	1	0			N/A
P22105	TENX_HUMAN	Tenascin-X	67.61	1	1	278 000	5 560	50.00	Up in CPC
P02786	TFR1_HUMAN	Transferrin receptor protein 1	308.46	50	55	7 140 000	13 300 000	-1.86	Down in CPC
P01137	TGFB1_HUMAN	Transforming growth factor beta-1	42.11	1	6		19 400		MSC only
P37173	TGFR2_HUMAN	TGF-beta receptor type-2	66.1	7	4	93 600	107 000	-1.14	Down in CPC
P04216	THY1_HUMAN	Thy-1 membrane glycoprotein	173.3	24	24	3 320 000	7 040 000	-2.12	Down in CPC
Q9Y490	TLN1_HUMAN	Talin-1	268.01	21	29	2 020 000	2 630 000	-1.30	Down in CPC
P25445	TNR6_HUMAN	Tumor necrosis factor receptor superfamily member 6	151.94	21	24	1 410 000	207 000	6.81	Up in CPC
O14763	TR10B_HUMAN	Tumor necrosis factor receptor superfamily member 10B	76.61	5	4	13 000	9 760	1.33	No change
Q9Y2W1	TR150_HUMAN	Thyroid hormone receptor-associated protein 3	52	1	4		34 800		MSC only
P07204	TRBM_HUMAN	Thrombomodulin	29.28	1	3		9 660		MSC only
O14817	TSN4_HUMAN	Tetraspanin-4	119.43	10	24	14 900	75 100	-5.04	Down in CPC
P30530	UFO_HUMAN	Tyrosine-protein kinase receptor UFO	215.35	13	24	420 000	2 060 000	-4.90	Down in CPC
Q9BZM4	ULBP3_HUMAN	UL16-binding protein 3	88.46	25	0	93 600			CPC only
Q03405	UPAR_HUMAN	Urokinase plasminogen activator surface receptor	131.12	16	9	408 000	231 000	1.77	Up in CPC
O75445	USH2A_HUMAN	Usherin	72.07	1	1	9 200			CPC only
P46939	UTRO_HUMAN	Utrophin	90.43	1	3	6 960	686 000	-98.56	Down in CPC
P19320	VCAM1_HUMAN	Vascular cell adhesion protein 1	281.07	3	52	10 500	3 940 000	-375.24	Down in CPC
P35916	VGFR3_HUMAN	Vascular endothelial growth factor receptor 3	61.66	0	3		14 400		MSC only
P04004	VTNC_HUMAN	Vitronectin	88.37	4	4	255 000	234 000	1.09	No change
P55060	XPO2_HUMAN	Exportin-2	72.7	1	3		39 000		MSC only

Table S3. List of proteins classified as *Enzymes* based on GO annotations. Relative expression levels in CPC vs MSC are based on normalised quantitative MS data.

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
P21589	5NTD_HUMAN	5'-nucleotidase	325.74	55	52	6 110 000	6 340 000	-1.04	No change
P17174	AATC_HUMAN	Aspartate aminotransferase cytoplasmic	23.65	1	3		21 400		MSC only
P78363	ABCA4_HUMAN	Retinal-specific ATP-binding cassette transporter	64.81	1	1	390 000			CPC only
Q86UK0	ABCAC_HUMAN	ATP-binding cassette sub-family A member 12	62.3	1	1	359	3 420	-9.53	Down in CPC
Q86UQ4	ABCAD_HUMAN	ATP-binding cassette sub-family A member 13	70.58	1	1	215 000	74 100	2.90	Up in CPC
O95342	ABCB8_HUMAN	Bile salt export pump	63.52	2	2	0			N/A
O60706	ABCC9_HUMAN	ATP-binding cassette sub-family C member 9	52.72	1	1	0			N/A
Q96J66	ABCCB_HUMAN	ATP-binding cassette sub-family C member 11	82.7	11	7	377 000	138 000	2.73	Up in CPC
P12821	ACE_HUMAN	Angiotensin-converting enzyme	146.61	4	15	442 000	1 450 000	-3.28	Down in CPC
Q07912	ACK1_HUMAN	Activated CDC42 kinase 1	51.4	3	1	29 200			CPC only
Q14672	ADA10_HUMAN	Disintegrin and metalloproteinase domain-containing protein 10	152.88	12	15	123 000	509 000	-4.14	Down in CPC
P78536	ADA17_HUMAN	Disintegrin and metalloproteinase domain-containing protein 17	152.65	7	10	250 000	174 000	1.44	No change
Q08828	ADCY1_HUMAN	Adenylate cyclase type 1	58.66	2	2	50 100	26 600	1.88	Up in CPC
O60266	ADCY3_HUMAN	Adenylate cyclase type 3	52.83	2	2	17 000	13 300	1.28	No change
P51828	ADCY7_HUMAN	Adenylate cyclase type 7	82.99	4	4	40 700	76 300	-1.87	Down in CPC
O60503	ADCY9_HUMAN	Adenylate cyclase type 9	46.33	0	3		20 100		MSC only
Q3SY69	AL1L2_HUMAN	Mitochondrial 10-formyltetrahydrofolate dehydrogenase	36.47	1	1		0		N/A
Q9UM73	ALK_HUMAN	ALK tyrosine kinase receptor	67.02	4	1	35 100	0		CPC only
P15144	AMPN_HUMAN	Aminopeptidase N	434.11	69	53	149 000 000	67 700 000	2.20	Up in CPC
Q4KMQ2	ANO6_HUMAN	Anoctamin-6	190.41	12	22	799 000	588 000	1.36	No change
P20594	ANPRB_HUMAN	Atrial natriuretic peptide receptor 2	150.62	9	11	1 780 000	163 000	10.92	Up in CPC
P04083	ANXA1_HUMAN	Annexin A1	168.9	32	29	330 000	246 000	1.34	No change
P84077	ARF1_HUMAN	ADP-ribosylation factor 1	23.45	0	6		0		N/A
P61204	ARF3_HUMAN	ADP-ribosylation factor 3	23.45	0	6		0		N/A
P84085	ARF5_HUMAN	ADP-ribosylation factor 5	23.45	0	6		0		N/A
P05089	ARG11_HUMAN	Arginase-1	96.63	7	8	13 800	29 500	-2.14	Down in CPC
P29374	ARI4A_HUMAN	AT-rich interactive domain-containing protein 4A	54.72	0	3		0		N/A
Q12797	ASPH_HUMAN	Aspartyl/asparaginyl beta-hydroxylase	52.66	1	3		49 000		MSC only
P54707	AT12A_HUMAN	Potassium-transporting ATPase alpha chain 2	106.07	7	8	55 500	224 000	-4.04	Down in CPC
P05023	AT1A1_HUMAN	Sodium/potassium-transporting ATPase subunit alpha-1	277.57	32	31	974 000	1 700 000	-1.75	Down in CPC
P50993	AT1A2_HUMAN	Sodium/potassium-transporting ATPase subunit alpha-2	207.79	16	16	0	278 000		MSC only
P13637	AT1A3_HUMAN	Sodium/potassium-transporting ATPase subunit alpha-3	229.04	19	19	0	71 200		MSC only
Q13733	AT1A4_HUMAN	Sodium/potassium-transporting ATPase subunit alpha-4	166.46	15	14	239 000 000	211 000 000	1.13	No change
P05026	AT1B1_HUMAN	Sodium/potassium-transporting ATPase subunit beta-1	149.44	24	32	417 000	941 000	-2.26	Down in CPC
P54709	AT1B3_HUMAN	Sodium/potassium-transporting ATPase subunit beta-3	223.69	40	57	3 010 000	9 740 000	-3.24	Down in CPC
P16615	AT2A2_HUMAN	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	100.63	2	6	7 260	16 600	-2.29	Down in CPC
P20020	AT2B1_HUMAN	Plasma membrane calcium-transporting ATPase 1	236.08	16	22	472 000	664 000	-1.41	No change

Table S3. List of proteins classified as *Enzymes* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
Q16720	AT2B3_HUMAN	Plasma membrane calcium-transporting ATPase 3	200.04	8	10	0	11 200		MSC only
P23634	AT2B4_HUMAN	Plasma membrane calcium-transporting ATPase 4	249.09	19	22	352 000	14 200 000	-40.34	Down in CPC
P20648	ATP4A_HUMAN	Potassium-transporting ATPase alpha chain 1	118.32	10	10	98 400	3 400 000	-34.55	Down in CPC
O43861	ATP9B_HUMAN	Probable phospholipid-transporting ATPase IIB	42.36	1	1		105 000		MSC only
P11021	BIP_HUMAN	Endoplasmic reticulum chaperone BiP	171.19	16	24	208 000	933 000	-4.49	Down in CPC
P36894	BMR1A_HUMAN	Bone morphogenetic protein receptor type-1A	26.23	0	2		19 000		MSC only
P38398	BRCA1_HUMAN	Breast cancer type 1 susceptibility protein	52.02	1	1	92 700			CPC only
Q10588	BST1_HUMAN	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 2	167.69	19	22	75 900	818 000	-10.78	Down in CPC
O43570	CAH12_HUMAN	Carbonic anhydrase 12	56.33	13	6	91 600	0		CPC only
P07384	CAN1_HUMAN	Calpain-1 catalytic subunit	83.59	7	4	52 000	70 200	-1.35	No change
P17655	CAN2_HUMAN	Calpain-2 catalytic subunit	69.06	3	5	6 500	28 900	-4.45	Down in CPC
P04040	CATA_HUMAN	Catalase	63.05	3	3	0	3 790		MSC only
P07339	CATD_HUMAN	Cathepsin D	37.35	7	3	143 000	5 900	24.24	Up in CPC
Q14004	CDK13_HUMAN	Cyclin-dependent kinase 13	48.81	0	2		0		N/A
P04632	CPNS1_HUMAN	Calpain small subunit 1	57.2	12	10	15 100	53 500	-3.54	Down in CPC
P81605	DCD_HUMAN	Dermcidin	110.59	19	47	271 000	784 000	-2.89	Down in CPC
Q16832	DDR2_HUMAN	Discoidin domain-containing receptor 2	239.95	25	30	459 000	1 050 000	-2.29	Down in CPC
Q9BQ39	DDX50_HUMAN	ATP-dependent RNA helicase DDX50	30.19	5	1	184 000			CPC only
Q9H2U1	DHX36_HUMAN	ATP-dependent RNA helicase DHX36	61.68	3	1	17 200			CPC only
Q09013	DMPK_HUMAN	Myotonin-protein kinase	27.79	1	1		122 000		MSC only
P49184	DNSL1_HUMAN	Deoxyribonuclease-1-like 1	161.37	33	32	428 000	382 000	1.12	No change
P27487	DPP4_HUMAN	Dipeptidyl peptidase 4	282.88	23	39	760 000	10 600 000	-13.95	Down in CPC
Q6XUX3	DUSTY_HUMAN	Dual serine/threonine and tyrosine protein kinase	44.16	2	1	0			N/A
P42892	ECE1_HUMAN	Endothelin-converting enzyme 1	247.61	22	32	688 000	4 070 000	-5.92	Down in CPC
P68104	EF1A1_HUMAN	Elongation factor 1-alpha 1	154.86	17	19	219 000	739 000	-3.37	Down in CPC
Q5VTE0	EF1A3_HUMAN	Putative elongation factor 1-alpha-like 3	154.86	17	19	219 000	739 000	-3.37	Down in CPC
P13639	EF2_HUMAN	Elongation factor 2	183.28	13	14	591 000	436 000	1.36	No change
P98172	EFNB1_HUMAN	Ephrin-B1	123.08	3	27		118 000		MSC only
P52799	EFNB2_HUMAN	Ephrin-B2	79.39	2	12		59 500		MSC only
Q15768	EFNB3_HUMAN	Ephrin-B3	34.41	4	1	28 800			CPC only
P49411	EFTU_HUMAN	Elongation factor Tu mitochondrial	45.35	3	1	9 830			CPC only
P00533	EGFR_HUMAN	Epidermal growth factor receptor	339.4	33	44	5 790 000	14 900 000	-2.57	Down in CPC
Q9NZN4	EHD2_HUMAN	EH domain-containing protein 2	44.8	2	5	116 000	98 500	1.18	No change
P22413	ENPP1_HUMAN	Ectonucleotide pyrophosphatase/phosphodiesterase family member 1	263.41	27	35	2 640 000	3 200 000	-1.21	No change
P29317	EPHA2_HUMAN	Ephrin type-A receptor 2	280.33	19	42	437 000	3 960 000	-9.06	Down in CPC
P29320	EPHA3_HUMAN	Ephrin type-A receptor 3	120.52	10	9	265 000	238 000	1.11	No change
P54764	EPHA4_HUMAN	Ephrin type-A receptor 4	128.81	7	8	756 000	722 000	1.05	No change
P54756	EPHA5_HUMAN	Ephrin type-A receptor 5	169.29	11	14	114 000	147 000	-1.29	No change
Q9UF33	EPHA6_HUMAN	Ephrin type-A receptor 6	100.26	8	4	1 190 000	647 000	1.84	Up in CPC
Q15375	EPHA7_HUMAN	Ephrin type-A receptor 7	113.36	7	8	3 630 000	191 000	19.01	Up in CPC
P29322	EPHA8_HUMAN	Ephrin type-A receptor 8	80.01	4	5	84 000			CPC only

Table S3. List of proteins classified as *Enzymes* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
Q5JZY3	EPHAA_HUMAN	Ephrin type-A receptor 10	66.99	6	3	302 000	17 800	16.97	Up in CPC
P54762	EPHB1_HUMAN	Ephrin type-B receptor 1	160.97	12	12	270 000	6 190	43.62	Up in CPC
P29323	EPHB2_HUMAN	Ephrin type-B receptor 2	215.46	20	23	602 000	1 020 000	-1.69	Down in CPC
P54753	EPHB3_HUMAN	Ephrin type-B receptor 3	131.56	9	8	4 680	1 980	2.36	Up in CPC
P54760	EPHB4_HUMAN	Ephrin type-B receptor 4	174.55	10	18	62 600	2 140 000	-34.19	Down in CPC
Q9NZ08	ERAP1_HUMAN	Endoplasmic reticulum aminopeptidase 1	46.93	2	2	34 600	22 400	1.54	Up in CPC
P04626	ERBB2_HUMAN	Receptor tyrosine-protein kinase erbB-2	166.68	9	13	151 000	521 000	-3.45	Down in CPC
Q15303	ERBB4_HUMAN	Receptor tyrosine-protein kinase erbB-4	120.81	5	9	0	2 520 000		MSC only
P49327	FAS_HUMAN	Fatty acid synthase	84.71	1	4		78 300		MSC only
P22087	FBRL_HUMAN	rRNA 2'-O-methyltransferase fibrillarin	60.69	9	8	0	18 700		MSC only
P04406	G3P_HUMAN	Glyceraldehyde-3-phosphate dehydrogenase	136.45	27	27	67 700	361 000	-5.33	Down in CPC
Q9UQC2	GAB2_HUMAN	GRB2-associated-binding protein 2	31.27	2	1	0			N/A
P36269	GGT5_HUMAN	Glutathione hydrolase 5 proenzyme	176.59	7	32	1 420 000	897 000	1.58	Up in CPC
Q03113	GNA12_HUMAN	Guanine nucleotide-binding protein subunit alpha-12	81.18	6	15		28 300		MSC only
Q14344	GNA13_HUMAN	Guanine nucleotide-binding protein subunit alpha-13	71.42	10	3	29 700			CPC only
P63096	GNAI1_HUMAN	Guanine nucleotide-binding protein G(i) subunit alpha-1	80.37	8	12	45 300	128 000	-2.83	Down in CPC
P04899	GNAI2_HUMAN	Guanine nucleotide-binding protein G(i) subunit alpha-2	165.16	23	25	179 000	514 000	-2.87	Down in CPC
Q5JWF2	GNAS1_HUMAN	Guanine nucleotide-binding protein G(s) subunit alpha isoforms XLas	86.5	5	3	33 200	64 900	-1.95	Down in CPC
P19087	GNAT2_HUMAN	Guanine nucleotide-binding protein G(t) subunit alpha-2	67.96	8	3	0			N/A
P38646	GRP75_HUMAN	Stress-70 protein mitochondrial	68.38	4	7	41 700	179 000	-4.29	Down in CPC
P0DMV8	HS71A_HUMAN	Heat shock 70 kDa protein 1A	92.51	8	12	33 000	137 000	-4.15	Down in CPC
P0DMV9	HS71B_HUMAN	Heat shock 70 kDa protein 1B	92.51	8	12	33 000	137 000	-4.15	Down in CPC
P07900	HS90A_HUMAN	Heat shock protein HSP 90-alpha	166.57	18	18		77 700		MSC only
P08238	HS90B_HUMAN	Heat shock protein HSP 90-beta	209.01	29	30	268 000	446 000	-1.66	Down in CPC
P54652	HSP72_HUMAN	Heat shock-related 70 kDa protein 2	137.41	14	18	274 000	31 300	8.75	Up in CPC
P17066	HSP76_HUMAN	Heat shock 70 kDa protein 6	83.94	4	12	0	60 200		MSC only
P11142	HSP7C_HUMAN	Heat shock cognate 71 kDa protein	167.77	15	29	160 000	390 000	-2.44	Down in CPC
P60842	IF4A1_HUMAN	Eukaryotic initiation factor 4A-I	58.7	11	5	15 100	13 900	1.09	No change
P08069	IGF1R_HUMAN	Insulin-like growth factor 1 receptor	107.59	4	6	30 400	120 000	-3.95	Down in CPC
P06213	INSR_HUMAN	Insulin receptor	94.09	5	4	114 000	102 000	1.12	No change
P05106	ITB3_HUMAN	Integrin beta-3	212.68	10	20	124 000	1 230 000	-9.92	Down in CPC
O60229	KALRN_HUMAN	Kalirin	58.54	1	1	4 800			CPC only
Q9BVG8	KIFC3_HUMAN	Kinesin-like protein KIFC3	26.57	0	2		26 600		MSC only
P07288	KLK3_HUMAN	Prostate-specific antigen	35.16	0	5		89 700		MSC only
P17252	KPCA_HUMAN	Protein kinase C alpha type	35.13	3	0	7 270			CPC only
P14618	KPYM_HUMAN	Pyruvate kinase PKM	265.16	45	60	1 630 000	2 760 000	-1.69	Down in CPC
P30613	KPYR_HUMAN	Pyruvate kinase PKLR	76.15	3	4		14 700		MSC only
Q9UIQ6	LCAP_HUMAN	Leucyl-cystinyl aminopeptidase	201.12	13	21	295 000	1 860 000	-6.31	Down in CPC
Q8WWI1	LMO7_HUMAN	LIM domain only protein 7	88.4	1	2		17 500		MSC only
Q9Y4K0	LOXL2_HUMAN	Lysyl oxidase homolog 2	48.04	1	3		3 960		MSC only
Q5S007	LRRK2_HUMAN	Leucine-rich repeat serine/threonine-protein kinase 2	58.27	1	1	98 800			CPC only

Table S3. List of proteins classified as *Enzymes* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
Q9UPN3	MACF1_HUMAN	Microtubule-actin cross-linking factor 1 isoforms 1/2/3/5	95.38	1	2	80 600	210 000	-2.61	Down in CPC
P27448	MARK3_HUMAN	MAP/microtubule affinity-regulating kinase 3	43.01	2	1	0			N/A
P08581	MET_HUMAN	Hepatocyte growth factor receptor	209.7	16	24	475 000	1 430 000	-3.01	Down in CPC
P50281	MMP14_HUMAN	Matrix metalloproteinase-14	279.95	47	41	5 830 000	8 110 000	-1.39	No change
P51511	MMP15_HUMAN	Matrix metalloproteinase-15	72.2	3	5		42 300		MSC only
P33527	MRP1_HUMAN	Multidrug resistance-associated protein 1	357.42	44	44	11 400 000	6 040 000	1.89	Up in CPC
Q92887	MRP2_HUMAN	Canalicular multispecific organic anion transporter 1	94.25	8	5	25 300	319 000	-12.61	Down in CPC
O15438	MRP3_HUMAN	Canalicular multispecific organic anion transporter 2	209.14	14	14	311 000	1 140 000	-3.67	Down in CPC
O15439	MRP4_HUMAN	Multidrug resistance-associated protein 4	237.13	16	23	2 150 000	6 640 000	-3.09	Down in CPC
Q5T3U5	MRP7_HUMAN	Multidrug resistance-associated protein 7	38.04	1	0	6 470			CPC only
P35580	MYH10_HUMAN	Myosin-10	153.72	8	8	67 100	292 000	-4.35	Down in CPC
Q7Z406	MYH14_HUMAN	Myosin-14	127.07	6	10	2 990 000	1 460 000	2.05	Up in CPC
P35579	MYH9_HUMAN	Myosin-9	293	17	32	313 000	2 600 000	-8.31	Down in CPC
Q13402	MYO7A_HUMAN	Unconventional myosin-VIIa	63.55	2	1	110 000			CPC only
P00387	NB5R3_HUMAN	NADH-cytochrome b5 reductase 3	203.82	30	36	795 000	1 650 000	-2.08	Down in CPC
Q9Y6Q9	NCOA3_HUMAN	Nuclear receptor coactivator 3	44.41	2	0	10 600			CPC only
P29120	NEC1_HUMAN	Neuroendocrine convertase 1	33.59	2	1	154 000			CPC only
Q96PU5	NED4L_HUMAN	E3 ubiquitin-protein ligase NEDD4-like	26.4	1	2		0		N/A
P08473	NEP_HUMAN	Neprilysin	153.62	19	12	353 000	227 000	1.56	Up in CPC
Q92542	NICA_HUMAN	Nicastrin	113.84	7	5	323 000	271 000	1.19	No change
P35228	NOS2_HUMAN	Nitric oxide synthase inducible	25.82	0	1		11 500		MSC only
Q5VST9	OBSCN_HUMAN	Obscurin	93.78	1	1	28 500			CPC only
Q6ZRI0	OTOG_HUMAN	Otogelin	66.02	1	1	106 000			CPC only
Q13219	PAPP1_HUMAN	Pappalysin-1	52.98	1	2		57 200		MSC only
Q92824	PCSK5_HUMAN	Proprotein convertase subtilisin/kexin type 5	39.53	0	1		0		N/A
P07237	PDIA1_HUMAN	Protein disulfide-isomerase	65.5	3	11	9 220	352 000	-38.18	Down in CPC
P30101	PDIA3_HUMAN	Protein disulfide-isomerase A3	47.86	5	7	191 000	80 400	2.38	Up in CPC
O43933	PEX1_HUMAN	Peroxisome biogenesis factor 1	30.95	1	0	42 800			CPC only
P16234	PGFRA_HUMAN	Platelet-derived growth factor receptor alpha	234.72	23	18	1 110 000	964 000	1.15	No change
P09619	PGFRB_HUMAN	Platelet-derived growth factor receptor beta	268.7	27	30	2 630 000	5 330 000	-2.03	Down in CPC
P07205	PGK2_HUMAN	Phosphoglycerate kinase 2	31.75	1	4		10 800		MSC only
Q02809	PLOD1_HUMAN	Procollagen-lysine 2-oxoglutarate 5-dioxygenase 1	43.18	1	4		307 000		MSC only
O00469	PLOD2_HUMAN	Procollagen-lysine 2-oxoglutarate 5-dioxygenase 2	72.27	3	3	5 000	11 100	-2.22	Down in CPC
O14494	PLPP1_HUMAN	Phospholipid phosphatase 1	70.63	0	14		166 000		MSC only
O14495	PLPP3_HUMAN	Phospholipid phosphatase 3	144.64	13	21	480 000	2 050 000	-4.27	Down in CPC
Q6T4P5	PLPR3_HUMAN	Phospholipid phosphatase-related protein type 3	63.9	2	5		0		N/A
P05186	PPBT_HUMAN	Alkaline phosphatase tissue-nonspecific isozyme	112.38	0	14		503 000		MSC only
P62937	PPIA_HUMAN	Peptidyl-prolyl cis-trans isomerase A	107.15	18	30	244 000	673 000	-2.76	Down in CPC
Q06830	PRDX1_HUMAN	Peroxiredoxin-1	100.75	19	24	74 200	217 000	-2.92	Down in CPC
P32119	PRDX2_HUMAN	Peroxiredoxin-2	80.4	11	17		45 400		MSC only
P30041	PRDX6_HUMAN	Peroxiredoxin-6	76	7	21	5 400	38 400	-7.11	Down in CPC

Table S3. List of proteins classified as *Enzymes* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
P55786	PSA_HUMAN	Puromycin-sensitive aminopeptidase	91.18	8	10	114 000	220 000	-1.93	Down in CPC
Q13308	PTK7_HUMAN	Inactive tyrosine-protein kinase 7	309.11	24	36	1 210 000	9 630 000	-7.96	Down in CPC
Q12923	PTN13_HUMAN	Tyrosine-protein phosphatase non-receptor type 13	47.7	1	1	0	0		N/A
P18433	PTPRA_HUMAN	Receptor-type tyrosine-protein phosphatase alpha	149.02	16	14	838 000	699 000	1.20	No change
P23467	PTPRB_HUMAN	Receptor-type tyrosine-protein phosphatase beta	66.7	2	2	363 000			CPC only
P23469	PTPRE_HUMAN	Receptor-type tyrosine-protein phosphatase epsilon	104.65	2	8	102 000	212 000	-2.08	Down in CPC
P10586	PTPRF_HUMAN	Receptor-type tyrosine-protein phosphatase F	70.93	1	4		39 700		MSC only
P23470	PTPRG_HUMAN	Receptor-type tyrosine-protein phosphatase gamma	264.18	13	23	841 000	3 940 000	-4.68	Down in CPC
Q12913	PTPRJ_HUMAN	Receptor-type tyrosine-protein phosphatase eta	200.42	6	12	87 700	523 000	-5.96	Down in CPC
Q15262	PTPRK_HUMAN	Receptor-type tyrosine-protein phosphatase kappa	147.38	7	9	81 500	1 200 000	-14.72	Down in CPC
P28827	PTPRM_HUMAN	Receptor-type tyrosine-protein phosphatase mu	43.39	2	1	19 600			CPC only
P22102	PUR2_HUMAN	Trifunctional purine biosynthetic protein adenosine-3	75.48	5	3	5 150 000	0		CPC only
P51153	RAB13_HUMAN	Ras-related protein Rab-13	68.18	5	15		35 500		MSC only
P61106	RAB14_HUMAN	Ras-related protein Rab-14	66.07	17	14	194 000	416 000	-2.14	Down in CPC
Q9H0U4	RAB1B_HUMAN	Ras-related protein Rab-1B	85.67	11	21		173 000		MSC only
Q9BZG1	RAB34_HUMAN	Ras-related protein Rab-34	82.1	12	17	24 100	68 700	-2.85	Down in CPC
Q7Z6P3	RAB44_HUMAN	Ras-related protein Rab-44	65.85	3	3	125 000			CPC only
P20338	RAB4A_HUMAN	Ras-related protein Rab-4A	62.69	9	7	0			N/A
P61006	RAB8A_HUMAN	Ras-related protein Rab-8A	85.36	13	25		23 800		MSC only
Q92930	RAB8B_HUMAN	Ras-related protein Rab-8B	78.59	11	16		6 350		MSC only
P63000	RAC1_HUMAN	Ras-related C3 botulinum toxin substrate 1	38.2	7	7	14 200	15 500	-1.09	No change
P62834	RAP1A_HUMAN	Ras-related protein Rap-1A	46.2	7	14	13 400	5 820	2.30	Up in CPC
P08922	ROS1_HUMAN	Proto-oncogene tyrosine-protein kinase ROS	79.09	2	2	955 000	588 000	1.62	Up in CPC
P23396	RS3_HUMAN	40S ribosomal protein S3	67.95	12	11	46 900	16 600	2.83	Up in CPC
P21817	RYR1_HUMAN	Ryanodine receptor 1	86.43	1	2	67 500	97 800	-1.45	No change
Q92736	RYR2_HUMAN	Ryanodine receptor 2	89.7	1	1	85 900			CPC only
Q12884	SEPR_HUMAN	Prolyl endopeptidase FAP	265.84	40	37	3 870 000	6 550 000	-1.69	Down in CPC
O43175	SERA_HUMAN	D-3-phosphoglycerate dehydrogenase	152.93	11	18	495 000	733 000	-1.48	No change
P51532	SMCA4_HUMAN	Transcription activator BRG1	56.7	2	1	32 800			CPC only
Q13501	SQSTM_HUMAN	Sequestosome-1	39.93	2	3		12 500		MSC only
Q658P3	STEAP3_HUMAN	Metalloreductase STEAP3	90.11	10	8	306 000	212 000	1.44	No change
P07814	SYEP_HUMAN	Bifunctional glutamate/proline--tRNA ligase	83.29	2	1	27 700	42 200	-1.52	Down in CPC
Q71U36	TBA1A_HUMAN	Tubulin alpha-1A chain	247.76	42	49		6 130		MSC only
Q9H4B7	TBB1_HUMAN	Tubulin beta-1 chain	115.54	6	7		3 590		MSC only
P68371	TBB4B_HUMAN	Tubulin beta-4B chain	214.46	38	42	20 800	34 700	-1.67	Down in CPC
P07437	TBB5_HUMAN	Tubulin beta chain	227.03	42	48	298 000	762 000	-2.56	Down in CPC
Q9BUF5	TBB6_HUMAN	Tubulin beta-6 chain	184.54	26	28	9 350	54 800	-5.86	Down in CPC
Q3ZCM7	TBB8_HUMAN	Tubulin beta-8 chain	161.41	15	21		454 000		MSC only
A6NNZ2	TBB8L_HUMAN	Tubulin beta-8 chain-like protein LOC260334	155.95	18	18	161 000	299 000	-1.86	Down in CPC
P37173	TGFR2_HUMAN	TGF-beta receptor type-2	66.1	7	4	93 600	107 000	-1.14	No change
P22735	TGM1_HUMAN	Protein-glutamine gamma-glutamyltransferase K	94.29	5	5	23 000	84 000	-3.65	Down in CPC

Table S3. List of proteins classified as *Enzymes* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
Q08188	TGM3_HUMAN	Protein-glutamine gamma-glutamyltransferase E	103.08	8	12	95 800	189 000	-1.97	Down in CPC
P10599	THIO_HUMAN	Thioredoxin	95.36	23	23	284 000	394 000	-1.39	No change
Q9UHN6	TMEM2_HUMAN	Cell surface hyaluronidase	89.85	5	6	145 000	154 000	-1.06	No change
Q63HR2	TNS2_HUMAN	Tensin-2	40.66	1	1	50 200	40 500	1.24	No change
Q8NBS9	TXND5_HUMAN	Thioredoxin domain-containing protein 5	74.54	4	6	7 500	10 200	-1.36	No change
Q5T4S7	UBR4_HUMAN	E3 ubiquitin-protein ligase UBR4	143.33	2	4	35 300	197 000	-5.58	Down in CPC
P30530	UFO_HUMAN	Tyrosine-protein kinase receptor UFO	215.35	13	24	420 000	2 060 000	-4.90	Down in CPC
Q9UI12	VATH_HUMAN	V-type proton ATPase subunit H	61.72	1	8		139 000		MSC only
P19320	VCAM1_HUMAN	Vascular cell adhesion protein 1	281.07	3	52	10 500	3 940 000	-375.24	Down in CPC
P35916	VGFR3_HUMAN	Vascular endothelial growth factor receptor 3	61.66	0	3		14 400		MSC only
Q9Y3S1	WNK2_HUMAN	Serine/threonine-protein kinase WNK2	30.74	0	1		0		N/A

Table S4. List of proteins classified as *Extracellular matrix components* based on GO annotations. Relative expression levels in CPC vs MSC are based on normalised quantitative MS data.

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
O00468	AGRIN_HUMAN	Agrin	62.49	1	1	7 910			CPC only
P04114	APOB_HUMAN	Apolipoprotein B-100	76.18	1	1	13 100	209 000	-15.95	Down in CPC
P02656	APOC3_HUMAN	Apolipoprotein C-III	58.33	16	16	176 000	80 100	2.20	Up in CPC
P02649	APOE_HUMAN	Apolipoprotein E	77.45	15	17	38 200	120 000	-3.14	Down in CPC
P07339	CATD_HUMAN	Cathepsin D	37.35	7	3	143 000	5 900	24.24	Up in CPC
Q6YHK3	CD109_HUMAN	CD109 antigen	353.74	43	42	18 100 000	10 900 000	1.66	Up in CPC
O75339	CILP1_HUMAN	Cartilage intermediate layer protein 1	66.63	3	3	374 000	0		CPC only
P02452	CO1A1_HUMAN	Collagen alpha-1(I) chain	182.24	11	27	281 000	1 170 000	-4.16	Down in CPC
P08123	CO1A2_HUMAN	Collagen alpha-2(I) chain	213.92	26	20	160 000	15 800 000	-98.75	Down in CPC
P02458	CO2A1_HUMAN	Collagen alpha-1(II) chain	90.35	4	3	63 900			CPC only
P02461	CO3A1_HUMAN	Collagen alpha-1(III) chain	85.47	5	5	3 290	354 000	-107.60	Down in CPC
P53420	CO4A4_HUMAN	Collagen alpha-4(IV) chain	68.74	2	2	162 000	2 460 000	-15.19	Down in CPC
P29400	CO4A5_HUMAN	Collagen alpha-5(IV) chain	71.85	2	1		42 200		MSC only
Q14031	CO4A6_HUMAN	Collagen alpha-6(IV) chain	35.98	1	1		143 000		MSC only
P20908	CO5A1_HUMAN	Collagen alpha-1(V) chain	71.95	2	2		64 300		MSC only
P12109	CO6A1_HUMAN	Collagen alpha-1(VI) chain	211.14	20	22	1 190 000	900 000	1.32	No change
P12110	CO6A2_HUMAN	Collagen alpha-2(VI) chain	136.44	6	9	117 000	1 070 000	-9.15	Down in CPC
P12111	CO6A3_HUMAN	Collagen alpha-3(VI) chain	337.92	26	33	2 100 000	6 340 000	-3.02	Down in CPC
A6NMZ7	CO6A6_HUMAN	Collagen alpha-6(VI) chain	79.6	2	3	136 000	0		CPC only
Q02388	CO7A1_HUMAN	Collagen alpha-1(VII) chain	96.61	3	2	22 100	20 500	1.08	No change
Q14055	CO9A2_HUMAN	Collagen alpha-2(IX) chain	68.57	5	5		27 700		Down in CPC
Q99715	COCA1_HUMAN	Collagen alpha-1(XII) chain	77.72	2	1	0			N/A
P39060	COIA1_HUMAN	Collagen alpha-1(XVIII) chain	58.97	2	2		0		N/A
Q14993	COJA1_HUMAN	Collagen alpha-1(XIX) chain	65.15	3	3		23 500		MSC only
Q5KU26	COL12_HUMAN	Collectin-12	121.77	2	8		320 000		MSC only
Q8NFW1	COMA1_HUMAN	Collagen alpha-1(XXII) chain	75.13	3	3		0		N/A
Q86Y22	CONA1_HUMAN	Collagen alpha-1(XXIII) chain	57.98	4	3	10 200			CPC only
Q17RW2	COOA1_HUMAN	Collagen alpha-1(XXIV) chain	62.89	2	2		10 900		MSC only
Q9BXS0	COPA1_HUMAN	Collagen alpha-1(XXV) chain	55.7	6	4	18 600 000	12 400 000	1.50	Up in CPC
Q8IZC6	CORA1_HUMAN	Collagen alpha-1(XXVII) chain	73.57	3	2	135 000			CPC only
Q6UVK1	CSPG4_HUMAN	Chondroitin sulfate proteoglycan 4	444.51	48	52	38 200 000	49 400 000	-1.29	No change
Q14118	DAG1_HUMAN	Dystroglycan	239.26	23	25	2 120 000	4 000 000	-1.89	Down in CPC
Q16610	ECM1_HUMAN	Extracellular matrix protein 1	56.12	5	4	22 800	24 800	-1.09	No change
O43854	EDIL3_HUMAN	EGF-like repeat and discoidin I-like domain-containing protein 3	54.47	1	11	134 000	246 000	-1.84	Down in CPC
P15502	ELN_HUMAN	Elastin	49.56	5	2	33 900	1 790	18.94	Up in CPC

Table S4. List of proteins classified as *Extracellular matrix components* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
P14625	ENPL_HUMAN	Endoplasmin	114.68	10	10	92 500	114 000	-1.23	No change
P20930	FILA_HUMAN	Filaggrin	72.44	2	0	34 900			CPC only
P02751	FINC_HUMAN	Fibronectin	365.38	6	40	49 500	14 600 000	-294.95	Down in CPC
Q4ZHG4	FNDC1_HUMAN	Fibronectin type III domain-containing protein 1	65.19	1	3		0		N/A
Q5SZK8	FREM2_HUMAN	FRAS1-related extracellular matrix protein 2	62.17	1	1		0		N/A
P35052	GPC1_HUMAN	Glypican-1	206.21	25	32	1 770 000	1 570 000	1.13	No change
Q9Y625	GPC6_HUMAN	Glypican-6	140.2	11	14	143 000	78 500	1.82	Up in CPC
Q8NDA2	HMCN2_HUMAN	Hemicentin-2	85.98	1	2		29 600		MSC only
P05362	ICAM1_HUMAN	Intercellular adhesion molecule 1	258.48	24	46	200 000	3 530 000	-17.65	Down in CPC
A6NGN9	IGLO5_HUMAN	IgLON family member 5	36.48	3	1	0			N/A
P19827	ITIH1_HUMAN	Inter-alpha-trypsin inhibitor heavy chain H1	38.7	1	2		57 600		MSC only
P14618	KPYM_HUMAN	Pyruvate kinase PKM	265.16	45	60	1 630 000	2 760 000	-1.69	Down in CPC
P24043	LAMA2_HUMAN	Laminin subunit alpha-2	49.12	1	1	443 000	0		CPC only
Q16787	LAMA3_HUMAN	Laminin subunit alpha-3	76.9	1	2	4 810 000	152 000	31.64	Up in CPC
O15230	LAMA5_HUMAN	Laminin subunit alpha-5	66.25	1	1	89 200			CPC only
P55268	LAMB2_HUMAN	Laminin subunit beta-2	57.33	2	1	27 900			CPC only
Q13751	LAMB3_HUMAN	Laminin subunit beta-3	60.63	2	2		13 900		MSC only
P09382	LEG1_HUMAN	Galectin-1	179.48	44	63	896 000	1 510 000	-1.69	Down in CPC
Q96FE5	LIGO1_HUMAN	Leucine-rich repeat and immunoglobulin-like domain-containing nogo receptor-interacting protein 1	28.12	1	1	0			N/A
Q9Y4K0	LOXL2_HUMAN	Lysyl oxidase homolog 2	48.04	1	3		3 960		MSC only
Q9NS15	LTBP3_HUMAN	Latent-transforming growth factor beta-binding protein 3	42.6	1	1	17 500			CPC only
Q8N2S1	LTBP4_HUMAN	Latent-transforming growth factor beta-binding protein 4	59.59	1	1		0		N/A
Q08431	MFGM_HUMAN	Lactadherin	122.38	6	13	15 000	66 600	-4.44	Down in CPC
P43121	MUC18_HUMAN	Cell surface glycoprotein MUC18	295.81	33	50	1 630 000	10 700 000	-6.56	Down in CPC
Q7Z5P9	MUC19_HUMAN	Mucin-19	85.01	1	1	5 160	0		CPC only
Q9NR99	MXRA5_HUMAN	Matrix-remodeling-associated protein 5	58.03	1	1		190 000		MSC only
Q68BL7	OLM2A_HUMAN	Olfactomedin-like protein 2A	35.61	0	4		71 900		MSC only
P34741	SDC2_HUMAN	Syndecan-2	131.24	7	10	167 000	300 000	-1.80	Down in CPC
O75056	SDC3_HUMAN	Syndecan-3	41.84	5	0	17 200			CPC only
Q9BZZ2	SN_HUMAN	Sialoadhesin	64.74	2	1	0			N/A
P50452	SPB8_HUMAN	Serpin B8	39.34	4	3	18 600			CPC only
P50453	SPB9_HUMAN	Serpin B9	33.77	0	7		0		N/A
Q9UKZ4	TEN1_HUMAN	Teneurin-1	40.94	1	0	0			N/A
Q9UQP3	TENN_HUMAN	Tenascin-N	52.84	2	1	0			N/A
P22105	TENX_HUMAN	Tenascin-X	67.61	1	1	278 000	5 560	50.00	Up in CPC
P13726	TF_HUMAN	Tissue factor	148.08	28	43	75 900	718 000	-9.46	Down in CPC
P01137	TGFB1_HUMAN	Transforming growth factor beta-1	42.11	1	6		19 400		MSC only
P04216	THY1_HUMAN	Thy-1 membrane glycoprotein	173.3	24	24	3 320 000	7 040 000	-2.12	Down in CPC
P04004	VTNC_HUMAN	Vitronectin	88.37	4	4	255 000	234 000	1.09	No change

Table S5. List of proteins classified as *Adhesion/junction/cytoskeletal* based on GO annotations. Relative expression levels in CPC vs MSC are based on normalised quantitative MS data.

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
P31946	1433B_HUMAN	14-3-3 protein beta/alpha	95.54	25	12	347 000	14 800	23.45	Up in CPC
P62258	1433E_HUMAN	14-3-3 protein epsilon	106.17	13	12	0	109 000		MSC only
P27348	1433T_HUMAN	14-3-3 protein theta	145.99	36	36	38 000	162 000	-4.26	Down in CPC
P63104	1433Z_HUMAN	14-3-3 protein zeta/delta	120.08	26	32	254 000	95 100	2.67	Up in CPC
P62736	ACTA_HUMAN	Actin aortic smooth muscle	205.27	27	38	544 000	1 340 000	-2.46	Down in CPC
P60709	ACTB_HUMAN	Actin cytoplasmic 1	271.56	44	59	1 850 000	4 000 000	-2.16	Down in CPC
Q9BYX7	ACTBM_HUMAN	Putative beta-actin-like protein 3	150.93	16	9	0			N/A
P63261	ACTG_HUMAN	Actin cytoplasmic 2	271.56	44	59	1 850 000	4 000 000	-2.16	Down in CPC
P12814	ACTN1_HUMAN	Alpha-actinin-1	83.85	0	14		79 800		MSC only
O43707	ACTN4_HUMAN	Alpha-actinin-4	78.19	2	9	10 700	23 900	-2.23	Down in CPC
O14672	ADA10_HUMAN	Disintegrin and metalloproteinase domain-containing protein 10	152.88	12	15	123 000	509 000	-4.14	Down in CPC
P78536	ADA17_HUMAN	Disintegrin and metalloproteinase domain-containing protein 17	152.65	7	10	250 000	174 000	1.44	No change
O14514	AGRB1_HUMAN	Adhesion G protein-coupled receptor B1 2	63.23	1	2		26 900		MSC only
Q09666	AHNB_HUMAN	Neuroblast differentiation-associated protein AHNAK	365.81	26	27	8 410 000	8 950 000	-1.06	No change
P16157	ANK1_HUMAN	Ankyrin-1	61.03	2	1	0			N/A
Q01484	ANK2_HUMAN	Ankyrin-2	82.07	2	1	0			N/A
Q12955	ANK3_HUMAN	Ankyrin-3	83.96	1	1	54 700			CPC only
P04083	ANXA1_HUMAN	Annexin A1	168.9	32	29	330 000	246 000	1.34	No change
P07355	ANXA2_HUMAN	Annexin A2	271.24	52	49	4 650 000	7 470 000	-1.61	Down in CPC
P08133	ANXA6_HUMAN	Annexin A6	47.1	0	3		23 700		MSC only
P84077	ARF1_HUMAN	ADP-ribosylation factor 1	23.45	0	6		0		N/A
P04920	B3A2_HUMAN	Anion exchange protein 2	258.05	27	24	1 320 000	1 100 000	1.20	No change
P35613	BASI_HUMAN	Basigin	277.27	37	42	12 900 000	22 000 000	-1.71	Down in CPC
P11021	BIP_HUMAN	Endoplasmic reticulum chaperone BiP	171.19	16	24	208 000	933 000	-4.49	Down in CPC
Q9UPA5	BSN_HUMAN	Protein bassoon	81.03	2	1	58 800	11 700	5.03	Up in CPC
Q8TCZ2	C99L2_HUMAN	CD99 antigen-like protein 2	173.77	48	49	1 440 000	1 830 000	-1.27	No change
P55287	CAD11_HUMAN	Cadherin-11	151.86	9	25	114 000	495 000	-4.34	Down in CPC
P55290	CAD13_HUMAN	Cadherin-13	257.58	30	29	2 830 000	3 070 000	-1.08	No change
P55291	CAD15_HUMAN	Cadherin-15	120.17	2	10	376 000	176 000	2.14	Up in CPC
Q9HBT6	CAD20_HUMAN	Cadherin-20	63.05	3	8	23 500	2 710	8.67	Up in CPC
Q9H251	CAD23_HUMAN	Cadherin-23	69.29	1	1	0			N/A
P19022	CADH2_HUMAN	Cadherin-2	310.42	32	36	5 690 000	9 490 000	-1.67	Down in CPC
P55283	CADH4_HUMAN	Cadherin-4	99.5	4	5	74 100	225 000	-3.04	Down in CPC
Q9BY67	CADM1_HUMAN	Cell adhesion molecule 1	260.09	36	18	5 820 000	234 000	24.87	Up in CPC

Table S5. List of proteins classified as *Adhesion/junction/cytoskeletal* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
Q05682	CALD1_HUMAN	Caldesmon	123.44	5	11	183 000	386 000	-2.11	Down in CPC
P07384	CAN1_HUMAN	Calpain-1 catalytic subunit	83.59	7	4	52 000	70 200	-1.35	No change
P17655	CAN2_HUMAN	Calpain-2 catalytic subunit	69.06	3	5	6 500	28 900	-4.45	Down in CPC
P47756	CAPZB_HUMAN	F-actin-capping protein subunit beta	100.53	15	19	36 500	65 100	-1.78	Down in CPC
P04040	CATA_HUMAN	Catalase	63.05	3	3	0	3 790		MSC only
P48509	CD151_HUMAN	CD151 antigen	34.01	4	4	220 000	220 000	1.00	No change
Q13740	CD166_HUMAN	CD166 antigen	355.25	52	55	19 500 000	45 000 000	-2.31	Down in CPC
P16070	CD44_HUMAN	CD44 antigen	293.92	29	27	62 700 000	96 000 000	-1.53	Down in CPC
P13987	CD59_HUMAN	CD59 glycoprotein	150.34	36	36	2 250 000	1 790 000	1.26	No change
P60033	CD81_HUMAN	CD81 antigen	38.15	8	8	23 900	18 500	1.29	No change
P48960	CD97_HUMAN	CD97 antigen	279.95	18	23	2 560 000	5 760 000	-2.25	Down in CPC
P14209	CD99_HUMAN	CD99 antigen	216.11	48	72	1 240 000	3 170 000	-2.56	Down in CPC
Q15517	CDSN_HUMAN	Corneodesmosin	91.55	8	9	96 000	147 000	-1.53	Down in CPC
Q00610	CLH1_HUMAN	Clathrin heavy chain 1	55.19	0	2		10 300		MSC only
P23528	COF1_HUMAN	Cofilin-1	149.78	20	46	282 000	1 100 000	-3.90	Down in CPC
P35221	CTNA1_HUMAN	Catenin alpha-1	259.14	33	40	1 460 000	414 000	3.53	Up in CPC
P26232	CTNA2_HUMAN	Catenin alpha-2	137.43	8	14	0	73 900		MSC only
P35222	CTNB1_HUMAN	Catenin beta-1	57.18	4	3	0			N/A
O60716	CTND1_HUMAN	Catenin delta-1	132.96	11	13	221 000	180 000	1.23	No change
Q6UVK1	CSPG4_HUMAN	Chondroitin sulfate proteoglycan 4	444.51	48	52	38 200 000	49 400 000	-1.29	No change
P21291	CSRP1_HUMAN	Cysteine and glycine-rich protein 1	118.15	11	19	40 100	218 000	-5.44	Down in CPC
Q14118	DAG1_HUMAN	Dystroglycan	239.26	23	25	2 120 000	4 000 000	-1.89	Down in CPC
Q16832	DDR2_HUMAN	Discoidin domain-containing receptor 2	239.95	25	30	459 000	1 050 000	-2.29	Down in CPC
P17661	DESM_HUMAN	Desmin	86.25	8	5	50 700			CPC only
P15924	DESP_HUMAN	Desmoplakin	267.55	20	24	8 220 000	2 500 000	3.29	Up in CPC
P60981	DEST_HUMAN	Destrin	78.36	7	19	10 300	205 000	-19.90	Down in CPC
P11532	DMD_HUMAN	Dystrophin	56.93	1	1	24 700	63 500	-2.57	Down in CPC
P27487	DPP4_HUMAN	Dipeptidyl peptidase 4	282.88	23	39	760 000	10 600 000	-13.95	Down in CPC
O43491	E41L2_HUMAN	Band 4.1-like protein 2	47.81	0	2		21 000		MSC only
Q9H329	E41LB_HUMAN	Band 4.1-like protein 4B	27.4	2	0	0			N/A
P68104	EF1A1_HUMAN	Elongation factor 1-alpha 1	154.86	17	19	219 000	739 000	-3.37	Down in CPC
P52799	EFNB2_HUMAN	Ephrin-B2	79.39	2	12		59 500		MSC only
P00533	EGFR_HUMAN	Epidermal growth factor receptor	339.4	33	44	5 790 000	14 900 000	-2.57	Down in CPC
P17813	EGLN_HUMAN	Endoglin	316.98	36	48	2 270 000	14 400 000	-6.34	Down in CPC
Q9NZN4	EHD2_HUMAN	EH domain-containing protein 2	44.8	2	5	116 000	98 500	1.18	No change
P14625	ENPL_HUMAN	Endoplasmic	114.68	10	10	92 500	114 000	-1.23	No change
Q9UNN8	EPCR_HUMAN	Endothelial protein C receptor	154.45	29	37	652 000	844 000	-1.29	No change
P29317	EPHA2_HUMAN	Ephrin type-A receptor 2	280.33	19	42	437 000	3 960 000	-9.06	Down in CPC
P58107	EPIPL_HUMAN	Epiplakin	73.63	1	1	25 100	172 000	-6.85	Down in CPC
Q14517	FAT1_HUMAN	Protocadherin Fat 1	247.82	16	6	4 910 000	1 630 000	3.01	Up in CPC
Q13642	FHL1_HUMAN	Four and a half LIM domains protein 1	44.08	0	7		139 000		MSC only

Table S5. List of proteins classified as *Adhesion/junction/cytoskeletal* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
P21333	FLNA_HUMAN	Filamin-A	359.24	30	37	4 550 000	7 200 000	-1.58	Down in CPC
O75369	FLNB_HUMAN	Filamin-B	169.75	9	12	62 400 000	31 200 000	2.00	Up in CPC
Q14315	FLNC_HUMAN	Filamin-C	263.38	13	20	3 100 000	2 070 000	1.50	Up in CPC
O43155	FLRT2_HUMAN	Leucine-rich repeat transmembrane protein FLRT2	71.97	14	0	241 000			CPC only
Q5JV73	FRPD3_HUMAN	FERM and PDZ domain-containing protein 3	68.28	3	2	47 900	16 900	2.83	Up in CPC
Q9UP38	FZD1_HUMAN	Frizzled-1	108.95	10	8	338 000	456 000	-1.35	No change
Q14332	FZD2_HUMAN	Frizzled-2	97.24	5	11		67 700		MSC only
P04406	G3P_HUMAN	Glyceraldehyde-3-phosphate dehydrogenase	136.45	27	27	67 700	361 000	-5.33	Down in CPC
P04921	GLPC_HUMAN	Glycophorin-C	130.51	20	20	447 000	992 000	-2.22	Down in CPC
Q03113	GNA12_HUMAN	Guanine nucleotide-binding protein subunit alpha-12	81.18	6	15		28 300		MSC only
Q14344	GNA13_HUMAN	Guanine nucleotide-binding protein subunit alpha-13	71.42	10	3	29 700			CPC only
P38646	GRP75_HUMAN	Stress-70 protein mitochondrial	68.38	4	7	41 700	179 000	-4.29	Down in CPC
P11166	GTR1_HUMAN	Solute carrier family 2 facilitated glucose transporter member 1	153.25	12	14	638 000	809 000	-1.27	No change
Q9ULI3	HEG1_HUMAN	Protein HEG homolog 1	155.52	11	6	747 000	285 000	2.62	Up in CPC
P0DMV8	HS71A_HUMAN	Heat shock 70 kDa protein 1A	92.51	8	12	33 000	137 000	-4.15	Down in CPC
P0DMV9	HS71B_HUMAN	Heat shock 70 kDa protein 1B	92.51	8	12	33 000	137 000	-4.15	Down in CPC
P11142	HSP7C_HUMAN	Heat shock cognate 71 kDa protein	167.77	15	29	160 000	390 000	-2.44	Down in CPC
P05362	ICAM1_HUMAN	Intercellular adhesion molecule 1	258.48	24	46	200 000	3 530 000	-17.65	Down in CPC
P46940	IQGA1_HUMAN	Ras GTPase-activating-like protein IQGAP1	68.17	1	3		65 700		MSC only
P56199	ITA1_HUMAN	Integrin alpha-1	254.73	13	25	1 010 000	3 630 000	-3.59	Down in CPC
Q9UKX5	ITA11_HUMAN	Integrin alpha-11	312.04	31	36	13 600 000	23 900 000	-1.76	Down in CPC
P17301	ITA2_HUMAN	Integrin alpha-2	317.04	38	32	8 960 000	2 160 000	4.15	Up in CPC
P26006	ITA3_HUMAN	Integrin alpha-3	338.92	43	53	9 950 000	22 500 000	-2.26	Down in CPC
P13612	ITA4_HUMAN	Integrin alpha-4	123.76	5	10	90 300	272 000	-3.01	Down in CPC
P08648	ITA5_HUMAN	Integrin alpha-5	379.98	54	51	22 700 000	23 100 000	-1.02	No change
P23229	ITA6_HUMAN	Integrin alpha-6	278.4	30	38	2 610 000	2 530 000	1.03	No change
Q13683	ITA7_HUMAN	Integrin alpha-7	228.01	3	28	18 000	2 460 000	-136.67	Down in CPC
P11215	ITAM_HUMAN	Integrin alpha-M	48.24	3	0	0			N/A
P06756	ITAV_HUMAN	Integrin alpha-V	358.52	58	62	12 500 000	22 600 000	-1.81	Down in CPC
P05556	ITB1_HUMAN	Integrin beta-1	334.1	44	44	33 200 000	50 100 000	-1.51	Down in CPC
P05106	ITB3_HUMAN	Integrin beta-3	212.68	10	20	124 000	1 230 000	-9.92	Down in CPC
P18084	ITB5_HUMAN	Integrin beta-5	245.84	31	34	2 820 000	2 720 000	1.04	No change
Q9BX67	JAM3_HUMAN	Junctional adhesion molecule C	118.87	16	17	135 000	390 000	-2.89	Down in CPC
O60229	KALRN_HUMAN	Kalirin	58.54	1	1	4 800			CPC only
Q96J84	KIRR1_HUMAN	Kin of IRRE-like protein 1	234.19	37	45	709 000	1 590 000	-2.24	Down in CPC
Q8WWI1	LMO7_HUMAN	LIM domain only protein 7	88.4	1	2		17 500		MSC only
Q07954	LRP1_HUMAN	Prolow-density lipoprotein receptor-related protein 1	435.24	31	27	20 400 000	19 200 000	1.06	No change
Q96NW7	LRRC7_HUMAN	Leucine-rich repeat-containing protein 7	43.01	1	0		487 000		MSC only
Q9UPN3	MACF1_HUMAN	Microtubule-actin cross-linking factor 1 isoforms 1/2/3/5	95.38	1	2	80 600	210 000	-2.61	Down in CPC
P29966	MARCS_HUMAN	Myristoylated alanine-rich C-kinase substrate	76.39	17	15	31 200	29 800	1.05	No change
P50281	MMP14_HUMAN	Matrix metalloproteinase-14	279.95	47	41	5 830 000	8 110 000	-1.39	No change

Table S5. List of proteins classified as *Adhesion/junction/cytoskeletal* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
P11717	MPRI_HUMAN	Cation-independent mannose-6-phosphate receptor	279.71	16	19	769 000	1 280 000	-1.66	Down in CPC
Q95297	MPZL1_HUMAN	Myelin protein zero-like protein 1	146.56	23	24	107 000	564 000	-5.27	Down in CPC
Q9Y4B5	MTCL1_HUMAN	Microtubule cross-linking factor 1	57.86	1	1	0			N/A
P43121	MUC18_HUMAN	Cell surface glycoprotein MUC18	295.81	33	50	1 630 000	10 700 000	-6.56	Down in CPC
Q96S97	MYADM_HUMAN	Myeloid-associated differentiation marker	54.32	0	12		53 400		MSC only
P35579	MYH9_HUMAN	Myosin-9	293	17	32	313 000	2 600 000	-8.31	Down in CPC
Q9Y2A7	NCKP1_HUMAN	Nck-associated protein 1	37.66	1	1		0		N/A
Q96SB3	NEB2_HUMAN	Neurabin-2	37.56	1	1	65 400			CPC only
Q15223	NECT1_HUMAN	Nectin-1	96.31	6	12	286 000	101 000	2.83	Up in CPC
Q92692	NECT2_HUMAN	Nectin-2	223.15	12	40	172 000	1 410 000	-8.20	Down in CPC
Q9NQS3	NECT3_HUMAN	Nectin-3	217.22	27	29	12 700 000	2 200 000	5.77	Up in CPC
P08473	NEP_HUMAN	Neprilysin	153.62	19	12	353 000	227 000	1.56	Up in CPC
Q94856	NFASC_HUMAN	Neurofascin	229.27	21	19	914 000	862 000	1.06	No change
Q6T4R5	NHS_HUMAN	Nance-Horan syndrome protein	46.41	2	1	76 400	5 650	13.52	Up in CPC
Q92542	NICA_HUMAN	Nicastrin	113.84	7	5	323 000	271 000	1.19	No change
P35228	NOS2_HUMAN	Nitric oxide synthase inducible	25.82	0	1		11 500		MSC only
O14786	NRP1_HUMAN	Neuropilin-1	350.27	53	52	14 200 000	14 700 000	-1.04	No change
Q8WX93	PALLD_HUMAN	Palladin	58.06	1	1		6 970		MSC only
O60330	PCDGC_HUMAN	Protocadherin gamma-A12	129.3	6	8	37 100			CPC only
Q9Y6V0	PCLO_HUMAN	Protein piccolo	74.04	1	0	13 800			CPC only
P07237	PDIA1_HUMAN	Protein disulfide-isomerase	65.5	3	11	9 220	352 000	-38.18	Down in CPC
P30101	PDIA3_HUMAN	Protein disulfide-isomerase A3	47.86	5	7	191 000	80 400	2.38	Up in CPC
O15018	PDZD2_HUMAN	PDZ domain-containing protein 2	74.12	1	2		0		N/A
P09619	PGFRB_HUMAN	Platelet-derived growth factor receptor beta	268.7	27	30	2 630 000	5 330 000	-2.03	Down in CPC
Q8IVE3	PKHH2_HUMAN	Pleckstrin homology domain-containing family H member 2	65.56	1	1		0		N/A
Q13835	PKP1_HUMAN	Plakophilin-1	93.46	7	6	108 000	346 000	-3.20	Down in CPC
Q99569	PKP4_HUMAN	Plakophilin-4	49.51	2	0	441 000			CPC only
P14923	PLAK_HUMAN	Junction plakoglobin	172.09	20	17	959 000	525 000	1.83	Up in CPC
Q15149	PLEC_HUMAN	Plectin	122.77	6	8	2 730 000	2 930 000	-1.07	No change
P62937	PPIA_HUMAN	Peptidyl-prolyl cis-trans isomerase A	107.15	18	30	244 000	673 000	-2.76	Down in CPC
Q13308	PTK7_HUMAN	Inactive tyrosine-protein kinase 7	309.11	24	36	1 210 000	9 630 000	-7.96	Down in CPC
Q12923	PTN13_HUMAN	Tyrosine-protein phosphatase non-receptor type 13	47.7	1	1	0	0		N/A
Q12913	PTPRJ_HUMAN	Receptor-type tyrosine-protein phosphatase eta	200.42	6	12	87 700	523 000	-5.96	Down in CPC
Q15262	PTPRK_HUMAN	Receptor-type tyrosine-protein phosphatase kappa	147.38	7	9	81 500	1 200 000	-14.72	Down in CPC
P28827	PTPRM_HUMAN	Receptor-type tyrosine-protein phosphatase mu	43.39	2	1	19 600			CPC only
P15151	PVR_HUMAN	Poliovirus receptor	118.11	10	11	611 000	980 000	-1.60	Down in CPC
P63000	RAC1_HUMAN	Ras-related C3 botulinum toxin substrate 1	38.2	7	7	14 200	15 500	-1.09	No change
Q86UR5	RIMS1_HUMAN	Regulating synaptic membrane exocytosis protein 1	44.31	1	1	12 600			CPC only
Q9UQ26	RIMS2_HUMAN	Regulating synaptic membrane exocytosis protein 2	43.93	3	0	440 000			CPC only
P36578	RL4_HUMAN	60S ribosomal protein L4	49.87	1	7		20 400		MSC only
P23396	RS3_HUMAN	40S ribosomal protein S3	67.95	12	11	46 900	16 600	2.83	Up in CPC

Table S5. List of proteins classified as *Adhesion/junction/cytoskeletal* based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
P62241	RS8_HUMAN	40S ribosomal protein S8	33.45	0	5		27 500		MSC only
P46781	RS9_HUMAN	40S ribosomal protein S9	20.3	0	4		108 000		MSC only
Q12884	SEPR_HUMAN	Prolyl endopeptidase FAP	265.84	40	37	3 870 000	6 550 000	-1.69	Down in CPC
P19634	SL9A1_HUMAN	Sodium/hydrogen exchanger 1	156.95	19	14	683 000	502 000	1.36	No change
Q08AE8	SPIR1_HUMAN	Protein spire homolog 1	54.36	1	7		154 000		MSC only
P11277	SPTB1_HUMAN	Spectrin beta chain erythrocytic	54.92	1	1	0	1 010 000		MSC only
Q13813	SPTN1_HUMAN	Spectrin alpha chain non-erythrocytic 1	50.77	1	1	10 300	24 300	-2.36	Down in CPC
O15020	SPTN2_HUMAN	Spectrin beta chain non-erythrocytic 2	72.22	2	1	110 000	548 000	-4.98	Down in CPC
Q71U36	TBA1A_HUMAN	Tubulin alpha-1A chain	247.76	42	49		6 130		MSC only
P68371	TBB4B_HUMAN	Tubulin beta-4B chain	214.46	38	42	20 800	34 700	-1.67	Down in CPC
P07437	TBB5_HUMAN	Tubulin beta chain	227.03	42	48	298 000	762 000	-2.56	Down in CPC
Q9UKZ4	TEN1_HUMAN	Teneurin-1	40.94	1	0	0			N/A
Q9HBL0	TENS1_HUMAN	Tensin-1	47.15	0	2		6 490		MSC only
P04216	THY1_HUMAN	Thy-1 membrane glycoprotein	173.3	24	24	3 320 000	7 040 000	-2.12	Down in CPC
Q9Y490	TLN1_HUMAN	Talin-1	268.01	21	29	2 020 000	2 630 000	-1.30	No change
Q9Y4G6	TLN2_HUMAN	Talin-2	146.39	5	6		65 400		MSC only
Q63HR2	TNS2_HUMAN	Tensin-2	40.66	1	1	50 200	40 500	1.24	No change
P67936	TPM4_HUMAN	Tropomyosin alpha-4 chain	152.11	14	35	39 200	371 000	-9.46	Down in CPC
O14817	TSN4_HUMAN	Tetraspanin-4	119.43	10	24	14 900	75 100	-5.04	Down in CPC
Q03405	UPAR_HUMAN	Urokinase plasminogen activator surface receptor	131.12	16	9	408 000	231 000	1.77	Up in CPC
P46939	UTRO_HUMAN	Utrophin	90.43	1	3	6 960	686 000	-98.56	Down in CPC
P18206	VINC_HUMAN	Vinculin	64.09	1	1		0		N/A

Table S6. List of proteins that could not be classified into any of the previous groups (*unclassified*) based on GO annotations. Relative expression levels in CPC vs MSC are based on normalised quantitative MS data.

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
P31947	1433S_HUMAN	14-3-3 protein sigma	90.56	10	11	0			N/A
P30443	1A01_HUMAN	HLA class I histocompatibility antigen A-1 alpha chain	294.53	55	45	110 000	0		CPC only
P04439	1A03_HUMAN	HLA class I histocompatibility antigen A-3 alpha chain	294.66	58	39	857 000			CPC only
P13746	1A11_HUMAN	HLA class I histocompatibility antigen A-11 alpha chain	294.05	53	47		0		N/A
P16188	1A30_HUMAN	HLA class I histocompatibility antigen A-30 alpha chain	289	41	55		129 000		MSC only
P30453	1A34_HUMAN	HLA class I histocompatibility antigen A-34 alpha chain	264.12	38	50		0		N/A
P30455	1A36_HUMAN	HLA class I histocompatibility antigen A-36 alpha chain	294.53	55	45	110 000	0		CPC only
Q09160	1A80_HUMAN	HLA class I histocompatibility antigen A-80 alpha chain	255.09	27	33	48 200			CPC only
P30504	1C04_HUMAN	HLA class I histocompatibility antigen Cw-4 alpha chain	247.81	34	54	3 690	14 800	-4.01	Down in CPC
P30505	1C08_HUMAN	HLA class I histocompatibility antigen Cw-8 alpha chain	244.26	29	48		9 620		MSC only
Q29960	1C16_HUMAN	HLA class I histocompatibility antigen Cw-16 alpha chain	243.81	31	46		0		N/A
Q8N4X5	AF1L2_HUMAN	Actin filament-associated protein 1-like 2	45.26	1	3		0		N/A
Q8IVF2	AHNK2_HUMAN	Protein AHNK2	86.06	1	1	109 000	596 000	-5.47	Down in CPC
P02768	ALBU_HUMAN	Serum albumin	178.61	10	13	13 400	38 400	-2.87	Down in CPC
Q5JTC6	AMER1_HUMAN	APC membrane recruitment protein 1	55.33	1	2		41 800		MSC only
Q6UB99	ANR11_HUMAN	Ankyrin repeat domain-containing protein 11	70.43	2	1	59 400	0		CPC only
Q8N1W1	ARG28_HUMAN	Rho guanine nucleotide exchange factor 28	68.73	2	2	5 880			CPC only
Q12774	ARHG5_HUMAN	Rho guanine nucleotide exchange factor 5	45.88	1	1	0			N/A
Q8IZT6	ASPM_HUMAN	Abnormal spindle-like microcephaly-associated protein	63.66	1	1	1 400			CPC only
Q5T9A4	ATD3B_HUMAN	ATPase family AAA domain-containing protein 3B	47.41	4	1	0			N/A
O75363	BCAS1_HUMAN	Breast carcinoma-amplified sequence 1	30.63	0	4		1 120 000		MSC only
Q12830	BPTF_HUMAN	Nucleosome-remodeling factor subunit BPTF	64.95	1	2		11 000		MSC only
Q10589	BST2_HUMAN	Bone marrow stromal antigen 2	42.21	3	6		29 400		MSC only
Q86VP6	CAND1_HUMAN	Cullin-associated NEDD8-dissociated protein 1	65.78	0	5		119 000		MSC only
Q5VZK9	CARL1_HUMAN	F-actin-uncapping protein LRRC16A	34.36	2	0	207 000			CPC only
Q9HCU0	CD248_HUMAN	Endosialin	118.48	4	9	122 000	395 000	-3.24	Down in CPC
P08962	CD63_HUMAN	CD63 antigen	82.36	5	5	2 510 000	1 530 000	1.64	Up in CPC
P27701	CD82_HUMAN	CD82 antigen	173.32	21	28	396 000	3 650 000	-9.22	Down in CPC
Q9H5V8	CDCP1_HUMAN	CUB domain-containing protein 1	221.47	8	24	245 000	1 730 000	-7.06	Down in CPC
Q5SW79	CE170_HUMAN	Centrosomal protein of 170 kDa	62.67	2	1	726 000			CPC only
Q6ZU64	CFA65_HUMAN	Cilia- and flagella-associated protein 65	47.42	2	1	0			N/A
Q9H2X0	CHRD_HUMAN	Chordin	44.04	2	2		0		N/A
Q9NY35	CLDN1_HUMAN	Claudin domain-containing protein 1	90.46	15	22	106 000	454 000	-4.28	Down in CPC
Q9H6B4	CLMP_HUMAN	CXADR-like membrane protein	153.03	17	27	153 000	1 090 000	-7.12	Down in CPC
O96005	CLPT1_HUMAN	Cleft lip and palate transmembrane protein 1	49.82	2	1	3 770			CPC only
Q8NE01	CNNM3_HUMAN	Metal transporter CNNM3	70.44	1	10		252 000		MSC only

Table S6. List of proteins that could not be classified into any of the previous groups (*unclassified*) based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
Q12860	CNTN1_HUMAN	Contactin-1	46.03	1	3		214 000		MSC only
O75128	COBL_HUMAN	Protein cordon-bleu	51.83	3	0	614 000			CPC only
P53621	COPA_HUMAN	Coatomer subunit alpha	82.1	3	8	91 700	115 000	-1.25	No change
P53618	COPB_HUMAN	Coatomer subunit beta	75.5	2	3		0		N/A
Q9BV73	CP250_HUMAN	Centrosome-associated protein CEP250	68.33	1	2		0		N/A
Q96FN4	CPNE2_HUMAN	Copine-2	46.26	1	6		2 620 000		MSC only
P01040	CYTA_HUMAN	Cystatin-A	72.14	31	31	29 500	55 300	-1.87	Down in CPC
Q96PD2	DCBD2_HUMAN	Discoidin CUB and LCCL domain-containing protein 2	260.28	23	30	1 260 000	3 420 000	-2.71	Down in CPC
Q16531	DDB1_HUMAN	DNA damage-binding protein 1	43.27	0	2		0		N/A
Q18PE1	DOK7_HUMAN	Protein Dok-7	46.85	2	3		0		N/A
Q08554	DSC1_HUMAN	Desmocollin-1	63.64	3	2	65 300	147 000	-2.25	Down in CPC
Q02413	DSG1_HUMAN	Desmoglein-1	197.47	13	12	879 000	1 660 000	-1.89	Down in CPC
O14640	DVL1_HUMAN	Segment polarity protein dishevelled homolog DVL-1	63.46	4	4	10 100	0		CPC only
Q14204	DYHC1_HUMAN	Cytoplasmic dynein 1 heavy chain 1	183.68	4	12	370 000	1 560 000	-4.22	Down in CPC
Q8NCM8	DYHC2_HUMAN	Cytoplasmic dynein 2 heavy chain 1	76.61	1	1	15 000			CPC only
A2CJ06	DYTN_HUMAN	Dystrotelin	34.64	3	2	0			N/A
P26641	EF1G_HUMAN	Elongation factor 1-gamma	28.55	0	3		0		N/A
Q9BSW2	EFC4B_HUMAN	EF-hand calcium-binding domain-containing protein 4B	33.41	0	5		61 000		MSC only
Q8WYP5	ELYS_HUMAN	Protein ELYS	47.91	1	1		44 800		MSC only
P54852	EMP3_HUMAN	Epithelial membrane protein 3	82.48	21	13	883 000	1 290 000	-1.46	No change
A0FGR8	ESYT2_HUMAN	Extended synaptotagmin-2	46.17	2	1	0			N/A
Q01844	EWS_HUMAN	RNA-binding protein EWS	80.72	5	4	117 000	179 000	-1.53	Down in CPC
Q9H0X4	F234A_HUMAN	Protein FAM234A	230.77	18	37	485 000	1 780 000	-3.67	Down in CPC
P12259	FA5_HUMAN	Coagulation factor V	90.6	2	2	50 600	47 300	1.07	No change
Q8TDW7	FAT3_HUMAN	Protocadherin Fat 3	77.68	1	1	182 000			CPC only
Q5D862	FILA2_HUMAN	Filaggrin-2	245.29	13	9	1 410 000	1 580 000	-1.12	No change
O95466	FMNL1_HUMAN	Formin-like protein 1	42.49	0	2		6 900		MSC only
Q9P2B2	FPRP_HUMAN	Prostaglandin F2 receptor negative regulator	268.48	7	35	20 500	4 870 000	-237.56	Down in CPC
P54826	GAS1_HUMAN	Growth arrest-specific protein 1	52.82	2	11		62 900		MSC only
Q13439	GOGA4_HUMAN	Golgin subfamily A member 4	63.85	1	1		0		N/A
Q96QA5	GSDMA_HUMAN	Gasdermin-A	71.22	5	9	18 500	74 300	-4.02	Down in CPC
P62805	H4_HUMAN	Histone H4	32.44	15	0	0			N/A
Q58FF7	H90B3_HUMAN	Putative heat shock protein HSP 90-beta-3	151.88	15	16	19 500	0		CPC only
P14866	HNRPL_HUMAN	Heterogeneous nuclear ribonucleoprotein L	70.19	7	7	6 130	214 000	-34.91	Down in CPC
Q86YZ3	HORN_HUMAN	Homerin	297.79	12	13	1 550 000	2 590 000	-1.67	Down in CPC
Q9H1B7	I2BPL_HUMAN	Interferon regulatory factor 2-binding protein-like	93.17	12	18	56 000	167 000	-2.98	Down in CPC
P48735	IDHP_HUMAN	Isocitrate dehydrogenase [NADP] mitochondrial	83.57	4	5	201 000	55 500	3.62	Up in CPC
Q8IVU1	IGDC3_HUMAN	Immunoglobulin superfamily DCC subclass member 3	36.36	1	3		500 000		MSC only
Q969P0	IGSF8_HUMAN	Immunoglobulin superfamily member 8	190.32	21	21	385 000	605 000	-1.57	Down in CPC
O14498	ISLR_HUMAN	Immunoglobulin superfamily containing leucine-rich repeat protein	29.41	4	0	48 000			CPC only
Q06033	ITIH3_HUMAN	Inter-alpha-trypsin inhibitor heavy chain H3	49.22	1	2		0		N/A

Table S6. List of proteins that could not be classified into any of the previous groups (*unclassified*) based on GO annotations (*continued*)

Accession	Protein ID	Description	-10IgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
P13645	K1C10_HUMAN	Keratin type I cytoskeletal 10	430.89	85	81	66 500 000	86 800 000	-1.31	No change
Q99456	K1C12_HUMAN	Keratin type I cytoskeletal 12	100.24	11	17	12 500	63 000	-5.04	Down in CPC
P13646	K1C13_HUMAN	Keratin type I cytoskeletal 13	195.2	18	31	190 000	163 000	1.17	No change
P02533	K1C14_HUMAN	Keratin type I cytoskeletal 14	324.16	61	57	4 450 000	5 750 000	-1.29	No change
P19012	K1C15_HUMAN	Keratin type I cytoskeletal 15	181.92	27	30	62 700	206 000	-3.29	Down in CPC
P08779	K1C16_HUMAN	Keratin type I cytoskeletal 16	292.59	59	58	1 600 000	2 010 000	-1.26	No change
Q04695	K1C17_HUMAN	Keratin type I cytoskeletal 17	215.6	47	45	618 000	514 000	1.20	No change
P08727	K1C19_HUMAN	Keratin type I cytoskeletal 19	172.6	24	25	36 800	514 000	-13.97	Down in CPC
Q2M2I5	K1C24_HUMAN	Keratin type I cytoskeletal 24	140	8	7	0			N/A
Q7Z3Z0	K1C25_HUMAN	Keratin type I cytoskeletal 25	130.74	13	17		0		N/A
Q7Z3Y9	K1C26_HUMAN	Keratin type I cytoskeletal 26	96.24	7	7		0		N/A
Q7Z3Y8	K1C27_HUMAN	Keratin type I cytoskeletal 27	174.35	20	19	96 200	1 390 000	-14.45	Down in CPC
Q7Z3Y7	K1C28_HUMAN	Keratin type I cytoskeletal 28	152.52	10	21	6 970	428 000	-61.41	Down in CPC
P35527	K1C9_HUMAN	Keratin type I cytoskeletal 9	520.81	93	90	352 000	766 000	-2.18	Down in CPC
Q14532	K1H2_HUMAN	Keratin type I cuticular Ha2	126.25	13	12	138 000			CPC only
P35908	K22E_HUMAN	Keratin type II cytoskeletal 2 epidermal	418.76	86	85	1 110 000	1 440 000	-1.30	No change
Q01546	K22O_HUMAN	Keratin type II cytoskeletal 2 oral	174.06	14	13	756 000	113	6690.27	Up in CPC
P04264	K2C1_HUMAN	Keratin type II cytoskeletal 1	515.78	77	75	315 000	246 000	1.28	No change
Q7Z794	K2C1B_HUMAN	Keratin type II cytoskeletal 1b	201.39	22	34	260 000	826 000	-3.18	Down in CPC
P12035	K2C3_HUMAN	Keratin type II cytoskeletal 3	180.62	16	23	0	163 000		MSC only
P19013	K2C4_HUMAN	Keratin type II cytoskeletal 4	156.62	13	22	20 600	605 000	-29.37	Down in CPC
P13647	K2C5_HUMAN	Keratin type II cytoskeletal 5	298.25	47	52	4 200 000	6 530 000	-1.55	Down in CPC
P02538	K2C6A_HUMAN	Keratin type II cytoskeletal 6A	275.84	45	50	113 000	193 000	-1.71	Down in CPC
P04259	K2C6B_HUMAN	Keratin type II cytoskeletal 6B	268.76	43	48	0	24 700		MSC only
P48668	K2C6C_HUMAN	Keratin type II cytoskeletal 6C	274.55	41	48		0		N/A
P08729	K2C7_HUMAN	Keratin type II cytoskeletal 7	140.25	12	20	270 000	17 900	15.08	Up in CPC
Q3SY84	K2C71_HUMAN	Keratin type II cytoskeletal 71	118.04	16	16	123 000	52 000	2.37	Up in CPC
Q14CN4	K2C72_HUMAN	Keratin type II cytoskeletal 72	105.61	21	14	1 120 000	173 000	6.47	Up in CPC
Q86Y46	K2C73_HUMAN	Keratin type II cytoskeletal 73	122.46	19	11	251 000			CPC only
Q7RTS7	K2C74_HUMAN	Keratin type II cytoskeletal 74	119.35	18	17	333 000	13 700	24.31	Up in CPC
Q95678	K2C75_HUMAN	Keratin type II cytoskeletal 75	204.13	23	32	327 000	505 000	-1.54	Down in CPC
Q8N1N4	K2C78_HUMAN	Keratin type II cytoskeletal 78	198.4	37	29	777 000	1 080 000	-1.39	No change
Q5XKE5	K2C79_HUMAN	Keratin type II cytoskeletal 79	197.85	19	22	129 000	761 000	-5.90	Down in CPC
P05787	K2C8_HUMAN	Keratin type II cytoskeletal 8	154.86	17	18	29 000	49 700	-1.71	Down in CPC
Q14678	KANK1_HUMAN	KN motif and ankyrin repeat domain-containing protein 1	45.24	1	2		0		N/A
Q8IZU9	KIRR3_HUMAN	Kin of IRRE-like protein 3	35.59	3	0	37 700			CPC only
Q5T749	KPRP_HUMAN	Keratinocyte proline-rich protein	171.82	9	22	183 000	163 000	1.12	No change
O76011	KRT34_HUMAN	Keratin type I cuticular Ha4	112.01	10	17		221 000		MSC only
Q92764	KRT35_HUMAN	Keratin type I cuticular Ha5	100.13	11	8	164 000			CPC only
O76013	KRT36_HUMAN	Keratin type I cuticular Ha6	94.04	6	13	0	10 500		MSC only
Q14533	KRT81_HUMAN	Keratin type II cuticular Hb1	121.86	9	9	0	31 800		MSC only

Table S6. List of proteins that could not be classified into any of the previous groups (*unclassified*) based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
P78385	KRT83_HUMAN	Keratin type II cuticular Hb3	121.86	9	9	0	31 800		MSC only
Q9NSB2	KRT84_HUMAN	Keratin type II cuticular Hb4	162.13	22	29	5 600 000	352 000	15.91	Up in CPC
O43790	KRT86_HUMAN	Keratin type II cuticular Hb6	121.86	9	9	0	31 800		MSC only
O76009	KT33A_HUMAN	Keratin type I cuticular Ha3-I	145.93	27	35	153 000	1 040	147.12	Up in CPC
Q14525	KT33B_HUMAN	Keratin type I cuticular Ha3-II	154.9	17	33		80 200		MSC only
P13473	LAMP2_HUMAN	Lysosome-associated membrane glycoprotein 2	68.42	4	9		67 200		MSC only
O75334	LIPA2_HUMAN	Liprin-alpha-2	54.3	1	1	79 700			CPC only
P50851	LRBA_HUMAN	Lipopolysaccharide-responsive and beige-like anchor protein	64.03	1	1	0			N/A
Q13449	LSAMP_HUMAN	Limbic system-associated membrane protein	142.38	21	12	75 100	280 000	-3.73	Down in CPC
Q86X29	LSR_HUMAN	Lipolysis-stimulated lipoprotein receptor	46.55	2	3		1 740 000		MSC only
P61626	LYSC_HUMAN	Lysozyme C	53.95	8	8	23 500	18 100	1.30	No change
Q96T58	MINT_HUMAN	Msx2-interacting protein	73.17	1	1	45 300	99 300	-2.19	Down in CPC
P15941	MUC1_HUMAN	Mucin-1	42.62	1	2	7 410	32 400	-4.37	Down in CPC
Q9UKN1	MUC12_HUMAN	Mucin-12	58.39	0	0	0			N/A
Q02817	MUC2_HUMAN	Mucin-2	45.88	1	0	17 700			CPC only
Q9BRK3	MXRA8_HUMAN	Matrix remodeling-associated protein 8	122.29	22	24	604 000	757 000	-1.25	No change
P35749	MYH11_HUMAN	Myosin-11	171.95	13	12	1 670 000	1 730 000	-1.04	No change
Q9UKX3	MYH13_HUMAN	Myosin-13	108.62	3	5	0	126 000		MSC only
B0I1T2	MYO1G_HUMAN	Unconventional myosin-Ig	40.59	1	2		0		N/A
Q9NZM1	MYOF_HUMAN	Myoferlin	183.16	12	12	352 000	668 000	-1.90	Down in CPC
Q7Z3B1	NEGR1_HUMAN	Neuronal growth regulator 1	163.76	20	29	2 610 000	683 000	3.82	Up in CPC
P18615	NELFE_HUMAN	Negative elongation factor E	33.92	4	1	0			N/A
Q8N4C6	NIN_HUMAN	Ninein	44.07	1	0	8 540			CPC only
Q8NFA2	NOXO1_HUMAN	NADPH oxidase organizer 1	42.6	1	6		17 300		MSC only
Q9P121	NTRI_HUMAN	Neurotrimin	147.45	7	18	78 700	701 000	-8.91	Down in CPC
P57721	PCBP3_HUMAN	Poly(rC)-binding protein 3	80.6	5	8		264 000		MSC only
Q9HCL0	PCD18_HUMAN	Protocadherin-18	62.34	2	2	3 350	4 110	-1.23	No change
Q9Y5I3	PCDA1_HUMAN	Protocadherin alpha-1	51.66	2	1		38 200		MSC only
Q9UN74	PCDA4_HUMAN	Protocadherin alpha-4	61.03	3	2		0		N/A
Q9Y5E6	PCDB3_HUMAN	Protocadherin beta-3	59.59	4	4		15 800		MSC only
Q9Y5H4	PCDG1_HUMAN	Protocadherin gamma-A1	122.09	7	10	65 100	202 000	-3.10	Down in CPC
Q9Y5H1	PCDG2_HUMAN	Protocadherin gamma-A2	117.71	6	8	233 000	125 000	1.86	Up in CPC
Q9Y5H0	PCDG3_HUMAN	Protocadherin gamma-A3	127.04	7	8	165 000	556 000	-3.37	Down in CPC
Q9Y5G9	PCDG4_HUMAN	Protocadherin gamma-A4	119.33	4	7		0		N/A
Q9Y5G8	PCDG5_HUMAN	Protocadherin gamma-A5	123.87	6	9	0	78 900		MSC only
Q9Y5G7	PCDG6_HUMAN	Protocadherin gamma-A6	135.54	8	11	11 700	57 700	-4.93	Down in CPC
Q9Y5G6	PCDG7_HUMAN	Protocadherin gamma-A7	126.74	6	10	38 900	513 000	-13.19	Down in CPC
Q9Y5G5	PCDG8_HUMAN	Protocadherin gamma-A8	128.07	9	8	122 000	13 300	9.17	Up in CPC
Q9Y5G4	PCDG9_HUMAN	Protocadherin gamma-A9	126.1	6	7	0	72 000		MSC only
Q9Y5H3	PCDGA_HUMAN	Protocadherin gamma-A10	125.6	3	9		11 700		MSC only
Q9Y5H2	PCDGB_HUMAN	Protocadherin gamma-A11	130.4	5	10	232 000	1 350 000	-5.82	Down in CPC

Table S6. List of proteins that could not be classified into any of the previous groups (*unclassified*) based on GO annotations (*continued*)

Accession	Protein ID	Description	-10lgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
Q9Y5G3	PCDGD_HUMAN	Protocadherin gamma-B1	123.77	6	7	45 600			CPC only
Q9Y5G2	PCDGE_HUMAN	Protocadherin gamma-B2	129.54	8	11	15 200	276 000	-18.16	Down in CPC
Q9Y5G1	PCDGF_HUMAN	Protocadherin gamma-B3	132.11	5	11	15 800	1 620 000	-102.53	Down in CPC
Q9UN71	PCDGG_HUMAN	Protocadherin gamma-B4	120.43	5	7	0			N/A
Q9Y5G0	PCDGH_HUMAN	Protocadherin gamma-B5	120.64	5	10	34 200	309 000	-9.04	Down in CPC
Q9Y5F9	PCDGI_HUMAN	Protocadherin gamma-B6	126.74	5	9	741	142 000	-191.63	Down in CPC
Q9Y5F8	PCDGJ_HUMAN	Protocadherin gamma-B7	119.31	5	5	25 400			CPC only
Q9UN70	PCDGK_HUMAN	Protocadherin gamma-C3	143.32	9	10	31 000	347 000	-11.19	Down in CPC
Q9Y5F7	PCDGL_HUMAN	Protocadherin gamma-C4	136.66	12	11	377 000	8 720	43.23	Up in CPC
Q9Y5F6	PCDGM_HUMAN	Protocadherin gamma-C5	123.56	9	8	94 000	22 000 000	-234.04	Down in CPC
Q9BQ51	PD1L2_HUMAN	Programmed cell death 1 ligand 2	69.8	6	6	8 230	56 400	-6.85	Down in CPC
P41219	PERI_HUMAN	Peripherin	85.48	7	6	13 300			MSC only
O75038	PLCH2_HUMAN	1-phosphatidylinositol 4 5-bisphosphate phosphodiesterase eta-2	50.75	1	2	2 130	0		MSC only
O14939	PLD2_HUMAN	Phospholipase D2	24.38	0	1		0		N/A
O00592	PODXL_HUMAN	Podocalyxin	174.63	11	18	341 000	1 450 000	-4.25	Down in CPC
A5A3E0	POTEF_HUMAN	POTE ankyrin domain family member F	189.08	15	18	324 000	774 000	-2.39	Down in CPC
Q70Z35	PREX2_HUMAN	Phosphatidylinositol 3 4 5-trisphosphate-dependent Rac exchanger 2 protein	45.92	1	1		0		N/A
Q7Z6L0	PRRT2_HUMAN	Proline-rich transmembrane protein 2	32.43	4	0	0			N/A
Q99460	PSMD1_HUMAN	26S proteasome non-ATPase regulatory subunit 1	36.4	1	2		16 900		MSC only
Q13200	PSMD2_HUMAN	26S proteasome non-ATPase regulatory subunit 2	44.83	1	3		49 800		MSC only
Q9UL46	PSME2_HUMAN	Proteasome activator complex subunit 2	57.4	2	11		27 400		MSC only
Q08999	RBL2_HUMAN	Retinoblastoma-like protein 2	49.26	1	2		0		N/A
O95980	RECK_HUMAN	Reversion-inducing cysteine-rich protein with Kazal motifs	228.78	18	8	561 000	984 000	-1.75	Down in CPC
Q5UIP0	RIF1_HUMAN	Telomere-associated protein RIF1	59.87	1	1	403 000			CPC only
P13489	RINI_HUMAN	Ribonuclease inhibitor	104.96	16	11	582 000	139 000	4.19	Up in CPC
Q6ZS17	RIPR1_HUMAN	Rho family-interacting cell polarization regulator 1	70.57	3	2	12 200			CPC only
P62750	RL23A_HUMAN	60S ribosomal protein L23a	51.82	0	8		45 300		MSC only
P83731	RL24_HUMAN	60S ribosomal protein L24	52.32	0	8		83 300		MSC only
Q8TEU7	RPGF6_HUMAN	Rap guanine nucleotide exchange factor 6	53.3	1	2		0		N/A
Q8N2Y8	RUSC2_HUMAN	Iporin	66.95	2	3		32 800		MSC only
Q6SPF0	SAMD1_HUMAN	Atherin	42.64	2	3		1 410 000		MSC only
Q6UWP8	SBSN_HUMAN	Suprabasin	65.94	8	4	211 000	816 000	-3.87	Down in CPC
O14828	SCAM3_HUMAN	Secretory carrier-associated membrane protein 3	23.83	5	5	10 300	7 110	1.45	No change
P18827	SDC1_HUMAN	Syndecan-1	148.4	12	14	154 000	640 000	-4.16	Down in CPC
Q9NRX5	SERC1_HUMAN	Serine incorporator 1	65.59	1	4		39 300		MSC only
P78324	SHPS1_HUMAN	Tyrosine-protein phosphatase non-receptor type substrate 1	223.87	29	31	382 000	1 950 000	-5.10	Down in CPC
Q0VAQ4	SMAGP_HUMAN	Small cell adhesion glycoprotein	81.97	35	35	544 000	455 000	1.20	No change
O94964	SOGA1_HUMAN	Protein SOGA1	38.06	1	1		14 200		MSC only
P0C7V6	SP202_HUMAN	Putative transcription factor SPT20 homolog-like 2	39.71	2	2	56 200	3 850	14.60	Up in CPC
Q96P63	SPB12_HUMAN	Serpin B12	68.9	8	8	106 000	126 000	-1.19	No change
P48594	SPB4_HUMAN	Serpin B4	47.22	6	7	168 000	345 000	-2.05	Down in CPC

Table S6. List of proteins that could not be classified into any of the previous groups (*unclassified*) based on GO annotations (*continued*)

Accession	Protein ID	Description	-10IgP	Coverage (%) CPC	Coverage (%) MSC	Area CPC	Area MSC	Fold change	Expression
Q96JI7	SPTCS_HUMAN	Spatacsin	60.56	1	2		79 400		MSC only
Q16629	SRSF7_HUMAN	Serine/arginine-rich splicing factor 7	130.56	24	21	34 000	106 000	-3.12	Down in CPC
Q16563	SYPL1_HUMAN	Synaptophysin-like protein 1	153.35	24	29	1 960 000	2 760 000	-1.41	No change
Q24JP5	T132A_HUMAN	Transmembrane protein 132A	101.4	6	9	5 950	72 000	-12.10	Down in CPC
Q9P273	TEN3_HUMAN	Teneurin-3	269.19	8	25	2 410 000	5 000 000	-2.07	Down in CPC
Q86V81	THOC4_HUMAN	THO complex subunit 4	31.31	2	3		9 910		MSC only
Q8IVF5	TIAM2_HUMAN	T-lymphoma invasion and metastasis-inducing protein 2	55.79	1	1		6 650		MSC only
Q9H0C3	TM117_HUMAN	Transmembrane protein 117	25.71	6	0	13 800			CPC only
Q4V9L6	TM119_HUMAN	Transmembrane protein 119	179.6	23	21	3 050 000	473 000	6.45	Up in CPC
Q9H813	TM206_HUMAN	Transmembrane protein 206	34.05	2	1	15 200			CPC only
Q92973	TNPO1_HUMAN	Transportin-1	108.46	3	9	39 700	108 000	-2.72	Down in CPC
Q9NXH8	TOR4A_HUMAN	Torsin-4A	60.39	2	7		23 700		MSC only
Q13641	TPBG_HUMAN	Trophoblast glycoprotein	192.82	19	26	903 000	1 470 000	-1.63	Down in CPC
P08582	TRFM_HUMAN	Melanotransferrin	242.02	6	42	71 000	1 500 000	-21.13	Down in CPC
P07477	TRY1_HUMAN	Trypsin-1	118.8	9	13	0	59 700		MSC only
P07478	TRY2_HUMAN	Trypsin-2	92.67	9	7	0			N/A
P35030	TRY3_HUMAN	Trypsin-3	97.05	7	9	8 980	63 100	-7.03	Down in CPC
Q9NNX1	TUFT1_HUMAN	Tuftelin	23.01	1	3		11 300		MSC only
P22314	UBA1_HUMAN	Ubiquitin-like modifier-activating enzyme 1	64.83	2	3	17 200	33 900	-1.97	Down in CPC
P0CG47	UBB_HUMAN	Polyubiquitin-B	122.91	17	21		0		N/A
P0CG48	UBC_HUMAN	Polyubiquitin-C	122.91	6	7		0		N/A
Q92738	US6NL_HUMAN	USP6 N-terminal-like protein	33.3	2	1	7 450			CPC only
Q6EMK4	VASN_HUMAN	Vasorin	232.77	24	24	2 540 000	2 130 000	1.19	No change
Q9HC57	WFDC1_HUMAN	WAP four-disulfide core domain protein 1	26.61	2	7		0		N/A
O60293	ZC3H1_HUMAN	Zinc finger C3H1 domain-containing protein	73.06	1	2	0			N/A

Table S7. List of proteins exported from the PEAKS Studio quantitation module. showing significantly differentially expressed proteins following quantitative LC-MS/MS analysis (cut-off fold change >1.5) utilising the Top 3 peptides from each protein

Acc.	Protein ID	Description	Sign.	Coverage (%)	#Peptides	#Unique	MSC Area	CPC Area	MSC Area (top-3 peptides)	CPC Area (top-3 peptides)	Group Profile (Ratio)
Q13308	PTK7_HUMAN	Inactive tyrosine-protein kinase 7	200	19	13	13	2 850 000	723 000	1 220 000	280 000	-4.36
P17813	EGLN_HUMAN	Endoglin	200	26	9	9	5 820 000	1 140 000	3 100 000	700 000	-4.43
P27487	DPP4_HUMAN	Dipeptidyl peptidase 4	200	16	10	10	2 110 000	421 000	1 240 000	179 000	-6.93
P42892	ECE1_HUMAN	Endothelin-converting enzyme 1	200	16	7	7	1 290 000	386 000	645 000	227 000	-2.84
Q96QD8	S38A2_HUMAN	Sodium-coupled neutral amino acid transporter 2	200	7	2	2	613 000	120 000	613 000	120 000	-5.11
P06756	ITAV_HUMAN	Integrin alpha-V	156.54	48	38	38	10 200 000	5 370 000	1 940 000	798 000	-2.43
P54709	AT1B3_HUMAN	Sodium/potassium-transporting ATPase subunit beta-3	130.95	30	8	8	2 660 000	1 040 000	1 810 000	642 000	-2.82
P08195	4F2_HUMAN	4F2 cell-surface antigen heavy chain	127.26	46	30	30	29 400 000	9 020 000	7 700 000	2 770 000	-2.78
P13591	NCAM1_HUMAN	Neural cell adhesion molecule 1	125.31	9	5	5	807 000	199 000	760 000	172 000	-4.42
Q81WA5	CTL2_HUMAN	Choline transporter-like protein 2	122.37	11	6	6	1 440 000	197 000	980 000	135 000	-7.26
Q13740	CD166_HUMAN	CD166 antigen	80.61	46	29	29	18 900 000	8 120 000	5 580 000	2 480 000	-2.25
P05106	ITB3_HUMAN	Integrin beta-3	73.81	7	5	4	401 000	67 100	302 000	47 100	-6.41
P00533	EGFR_HUMAN	Epidermal growth factor receptor	72.88	27	21	20	5 970 000	2 740 000	2 510 000	1 110 000	-2.26
Q96PD2	DCBD2_HUMAN	Discoidin CUB and LCCL domain-containing protein 2	69.37	14	6	6	966 000	553 000	614 000	372 000	-1.65
Q92633	LPAR1_HUMAN	Lysophosphatidic acid receptor 1	66.79	8	2	2	179 000	95 300	179 000	95 300	-1.88
P43121	MUC18_HUMAN	Cell surface glycoprotein MUC18	63.99	24	9	9	3 200 000	681 000	1 750 000	336 000	-5.21
O14495	PLPP3_HUMAN	Phospholipid phosphatase 3	61.43	7	2	2	430 000	100 000	430 000	100 000	-4.30
Q13683	ITA7_HUMAN	Integrin alpha-7	58.57	1	1	1	87 000	16 600	87 000	16 600	-5.24
P26006	ITA3_HUMAN	Integrin alpha-3	54.73	29	21	21	6 970 000	3 010 000	2 290 000	1 420 000	-1.61
Q92692	NECT2_HUMAN	Nectin-2	50.43	12	5	5	364 000	110 000	311 000	86 200	-3.61
Q9BY67	CADM1_HUMAN	Cell adhesion molecule 1	49.61	6	1	1	16 700	98 600	16 700	98 600	5.90
P02751	FINC_HUMAN	Fibronectin	48.94	1	1	1	169 000	22 100	169 000	22 100	-7.65
P78324	SHPS1_HUMAN	Tyrosine-protein phosphatase non-receptor type substrate1	47.57	13	4	2	284 000	108 000	284 000	108 000	-2.63
P63261	ACTG_HUMAN	Actin cytoplasmic 2	43.74	43	11	5	1 640 000	807 000	1 120 000	623 000	-1.80
P05362	ICAM1_HUMAN	Intercellular adhesion molecule 1	43.67	8	3	3	569 000	107 000	569 000	107 000	-5.32
P43007	SATT_HUMAN	Neutral amino acid transporter A	43.07	24	8	8	1 140 000	661 000	695 000	433 000	-1.61
Q01650	LAT1_HUMAN	Large neutral amino acids transporter small subunit 1	40.42	11	4	4	1 360 000	374 000	1 230 000	331 000	-3.72
P35052	GPC1_HUMAN	Glypican-1	39.72	9	4	4	424 000	128 000	373 000	102 000	-3.66
P18827	SDC1_HUMAN	Syndecan-1	38.78	12	2	2	202 000	104 000	202 000	104 000	-1.94
P50895	BCAM_HUMAN	Basal cell adhesion molecule	35.87	17	7	7	355 000	103 000	237 000	63 800	-3.71
P02786	TFR1_HUMAN	Transferrin receptor protein 1	34.24	40	23	23	4 640 000	3 120 000	1 030 000	631 000	-1.63
P35579	MYH9_HUMAN	Myosin-9	31.95	5	6	5	245 000	50 800	198 000	36 200	-5.47
Q14439	GP176_HUMAN	G-protein coupled receptor 176	30.67	9	3	3	182 000	64 600	182 000	64 600	-2.82
Q6YHK3	CD109_HUMAN	CD109 antigen	30.45	29	30	30	5 310 000	7 240 000	1 070 000	1 690 000	1.58
P15144	AMPN_HUMAN	Aminopeptidase N	30.21	50	50	50	33 300 000	47 800 000	6 670 000	10 400 000	1.56

Table S7. List of proteins exported from the PEAKS Studio quantitation module. showing significantly differentially expressed proteins (*continued*)

Acc.	Protein ID	Description	Sign.	Coverage (%)	#Peptides	#Unique	MSC Area	CPC Area	MSC Area (top-3 peptides)	CPC Area (top-3 peptides)	Group Profile (Ratio)
Q14118	DAG1_HUMAN	Dystroglycan	29.78	15	9	9	1 690 000	961 000	735 000	467 000	-1.57
Q07954	LRP1_HUMAN	Prolow-density lipoprotein receptor-related protein 1	29.59	19	61	61	8 650 000	7 570 000	1 280 000	844 000	-1.52
P56199	ITA1_HUMAN	Integrin alpha-1	28.86	5	6	6	822 000	350 000	605 000	245 000	-2.47
Q4KMQ2	ANO6_HUMAN	Anoctamin-6	28.82	5	3	3	414 000	99 200	344 000	65 500	-5.25
P27701	CD82_HUMAN	CD82 antigen	26.81	16	3	3	1 010 000	188 000	949 000	176 000	-5.39
P07355	ANXA2_HUMAN	Annexin A2	26.13	42	14	14	2 990 000	1 920 000	1 250 000	830 000	-1.51
P04921	GLPC_HUMAN	Glycophorin-C	25.44	20	2	2	326 000	175 000	307 000	157 000	-1.96
P67936	TPM4_HUMAN	Tropomyosin alpha-4 chain	23.79	14	3	2	109 000	35 100	109 000	35 100	-3.11
Q9H0X4	F234A_HUMAN	Protein FAM234A	23.18	11	4	4	541 000	284 000	522 000	275 000	-1.90
P29317	EPHA2_HUMAN	Ephrin type-A receptor 2	22.97	10	7	7	682 000	217 000	376 000	116 000	-3.24
P17301	ITA2_HUMAN	Integrin alpha-2	22.44	23	17	17	976 000	2 450 000	344 000	915 000	2.66
Q99808	S29A1_HUMAN	Equilibrative nucleoside transporter 1	20.72	7	3	3	105 000	45 800	82 200	33 900	-2.42