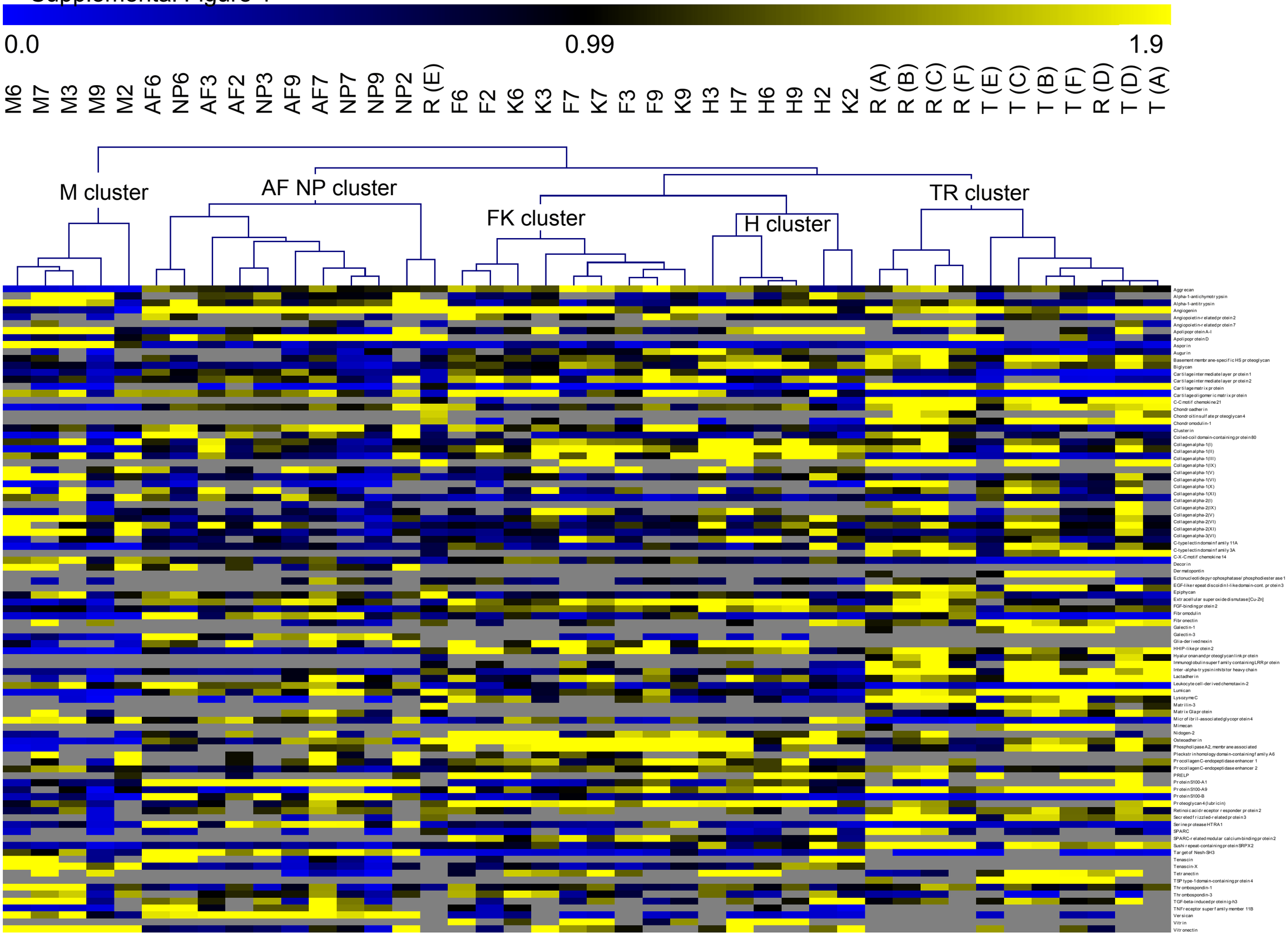
SUPPLEMENTAL FIGURE 1
Hierarchical clustering analysis of the multivariate data listed in table 2. Apparent tissue clusters are marked out. F=femoral head, H=humeral head and K=tibial knee were articular cartilages while the other cartilage types were from M=meniscus, AF= annulus fibrosus, NP=nucleus pulposus, R=rib and T=trachea.

SUPPLEMENTAL TABLE 1
List of all detected proteins in tissue extracts using the 2D-LCMS with ITRAQ quantification from eight human cartilage subtypes (n=5-6).

SUPPLEMENTAL TABLE 2
List of proteins omitted from the total list presented in supplemental table 1.

SUPPLEMENTAL TABLE 3A-3K
Significantly differentially abundant proteins ($P \leq 0.05$) using pairwise tissue comparisons of cartilage tissue extracts.

Supplemental Figure 1



Supplemental table 1

Protein name	Accesion	F7	F6	F3	F9	F2	F-mean	H7	H6	H3	H9	H2	H-mean	K7	K6	K3	K9	K2	K-mean	M7	M6	M3	M9	M2	M-mean
14-3-3 protein eta	**Q04917**						ND						ND						ND						ND
14-3-3 protein gamma	**P61981**						ND						ND						ND	**2.21**	*1.61*				1.91
14-3-3 protein theta	**P27348**						ND						ND						ND						ND
14-3-3 protein zeta/delta	**P63104**						ND						ND						ND						ND
1-phosphatidylinositol-4,5-bisphosphate ph	**P51178**						ND						ND						ND						ND
40S ribosomal protein S20	**P60866**					*1.45*	1.45					*2.00*	2.00					*1.30*	1.30						ND
4-trimethylaminobutyraldehyde dehydrogen	**P49189**						ND						ND						ND						ND
78 kDa glucose-regulated protein	**P11021**						ND						ND						ND	*1.55*					1.55
Actin, alpha cardiac muscle 1	**P68032**						ND						ND						ND						ND
Actin, aortic smooth muscle	**P62736**	**0.30**		*0.514*	**0.46**	**0.32**	0.40	**0.52**		*0.615*	**0.79**	**1.50**	0.86	**0.59**		*0.543*	**0.34**	**1.25**	0.68						ND
Actin, cytoplasmic 1	**P60709**	**0.34**	**0.44**	**0.532**	**0.48**	**0.33**	0.42	**0.54**	**0.65**	**0.494**	**0.81**	**1.50**	0.80	**0.62**	**0.48**	**0.538**	**0.36**	**1.29**	0.66	**2.13**	**1.55**	**0.763**	**0.79**	**0.54**	1.15
Adenomatous polyposis coli protein 2	**O95996**	**0.57**	**2.83**				1.70	**0.33**	**0.42**				0.37	**1.16**	**2.03**				1.60			**2.453**		**1.97**	2.21
Adenylate kinase isoenzyme 1	**P00568**						ND						ND						ND						ND
Adenylyl cyclase-associated protein 1	**Q01518**						ND						ND						ND						ND
Adipocyte enhancer-binding protein 1	**Q8IUX7**					**0.39**	0.39					**3.22**	3.22					**0.92**	0.92						ND
Adseverin	**Q9Y6U3**						ND						ND						ND						ND
Aggrecan core protein	**P16112**	**2.08**	**1.70**	**1.593**	**2.42**	**1.37**	1.83	**1.52**	**1.14**	**1.544**	**1.31**	**0.47**	1.20	**1.80**	**1.51**	**1.264**	**1.58**	**0.57**	1.34	**0.18**	**0.15**	**0.135**	**0.10**	**0.08**	0.13
Alcohol dehydrogenase [NADP+]	**P14550**	*0.00*					0.00	*2.20*					2.20	*2.87*					2.87			*3.591*			3.59
Alcohol dehydrogenase 1B	**P00325**			*1.477*			1.48			*0.935*			0.94			*2.096*			2.10		*6.55*				6.55
Alpha-1-acid glycoprotein 1	**P02763**	**0.53**	**0.95**	**0.517**	**1.25**	**1.37**	0.92	**2.15**	**3.54**	**0.560**	**4.48**	**5.09**	3.17	**1.83**	**1.90**	**1.795**	**4.01**	**4.11**	2.73	**5.39**	**5.40**	**4.885**	**9.01**	**2.41**	5.42
Alpha-1-antichymotrypsin	**P01011**		*0.40*	*0.383*	*0.45*	**0.65**	0.47		*0.54*	*0.289*	*1.14*	**1.87**	0.96		*0.56*	*0.906*	*0.84*	**1.47**	0.95	**2.40**		*2.109*	**2.19**	**0.78**	1.87
Alpha-1-antitrypsin	**P01009**	**0.21**	**0.58**	**0.457**	**0.53**	**0.27**	0.41	**0.59**	**0.95**	**0.435**	**1.22**	**0.87**	0.81	**0.73**	**0.72**	**1.077**	**0.78**	**0.77**	0.81	**1.94**	**1.88**	**2.014**	**1.67**	**0.22**	1.55
Alpha-1B-glycoprotein	**P04217**					*1.00*	1.00					*5.89*	5.89					*5.58*	5.58				*1.51*	**2.41**	1.96
Alpha-2-HS-glycoprotein	**P02765**		*0.91*	*1.041*			0.97		*1.78*	*1.143*			1.46		*1.50*	*1.821*			1.66	*2.96*			*1.40*	**0.48**	1.61
Alpha-2-macroglobulin	**P01023**	**0.10**	**0.16**	**0.110**	**0.06**	**0.12**	0.11	**0.13**	**0.14**	**0.123**	**0.11**	**0.17**	0.13	**0.13**	**0.20**	**0.257**	**0.07**	**0.16**	0.16	**0.22**	**0.12**	**0.507**	**0.13**	**0.10**	0.22
Alpha-actinin-1	**P12814**						ND						ND						ND						ND
Alpha-crystallin B chain	**P02511**	*0.64*					0.64	*0.73*					0.73	*0.82*					0.82			**1.672**	**2.13**		1.90
Alpha-enolase	**P06733**	**1.01**	**1.22**	**1.209**	**1.41**	**1.48**	1.27	**1.23**	**1.67**	**1.504**	**1.95**	**1.77**	1.62	**2.04**	**1.75**	**1.461**	**1.41**	**1.38**	1.61	**1.47**	**1.38**	**0.982**	**0.55**	**0.90**	1.06
Angiogenin	**P03950**	**2.01**	**6.10**	**1.339**	**0.74**	**3.27**	2.69	**2.56**	**3.95**	**2.561**	**3.25**	**2.61**	2.98	**3.01**	**2.57**	**2.226**	**2.70**	**0.83**	2.26	**0.53**	**0.59**	**0.405**	**0.45**	*0.04*	0.40
Angiopoietin-related protein 2	**Q9UKU9**	**0.98**	**2.13**		**3.15**	**1.44**	1.93	**0.81**	**0.73**		**0.76**	**0.78**	0.77	**0.84**	**0.90**		**1.43**	**0.65**	0.95		**0.39**		*0.23*		0.31
Angiopoietin-related protein 7	**O43827**						ND						ND						ND	**1.38**					1.38
Annexin A1	**P04083**	**0.83**	*1.61*	**1.224**	**1.19**	**0.68**	1.11	**1.57**	**2.29**	**1.664**	**2.06**	**1.20**	1.76	**1.54**	**1.23**	**1.228**	**1.22**	**1.19**	1.28	**2.05**	**1.89**		**2.03**		1.99
Annexin A2	**P07355**			**1.081**	*1.47*	**0.46**	1.00			**1.273**	*2.37*	**0.96**	1.53			**1.199**	*1.89*	**1.18**	1.42	**1.61**	**1.62**		**0.88**		1.37
Annexin A5	**P08758**	**0.51**	**0.54**		**0.74**	**0.54**	0.58	**0.49**	**0.86**		**1.17**	**0.98**	0.87	**1.13**	**1.26**		**0.74**	**0.66**	0.95	*1.60*	**0.57**		**0.48**		0.88
Annexin A6	**P08133**	*1.03*					1.03	*1.03*					1.03	*1.37*					1.37	**1.38**			*0.89*		1.14
Antithrombin-III	**P01008**				*0.90*	**0.75**	0.82				*2.49*	**2.19**	2.34				*1.76*	**1.85**	1.80				*3.96*		3.96
Apolipoprotein A-I	**P02647**	**0.55**	**0.89**	**1.318**	**0.52**	**0.53**	0.76	**1.64**	**2.27**	**0.907**	**1.98**	**3.48**	2.06	**1.00**	**1.05**	**3.155**	**0.66**	**3.81**	1.93	**3.26**	**2.64**	**4.412**	**1.89**	**0.80**	2.60
Apolipoprotein D	**P05090**						ND						ND						ND	**0.73**	**0.42**	**0.613**	**0.40**	**0.91**	0.62
Argininosuccinate synthase	**P00966**						ND						ND						ND						ND
Asporin	**Q9BXN1**	**0.14**	**0.15**	**0.114**	**0.20**	**0.15**	0.15	**0.15**	**0.21**	**0.145**	**0.26**	**0.43**	0.24	**0.58**	**0.50**	**0.542**	**0.72**	**0.37**	0.54	**3.99**	**3.28**	**5.025**	**1.97**	**1.15**	3.08
ATP synthase subunite beta, mitochondrial	**P06576**						ND						ND						ND						ND
Augurin	**Q9H1Z8**	**0.99**	**1.19**	**0.903**	*1.70*		1.19	**1.32**	**0.57**	**3.220**	*1.19*		1.57	**0.89**	**0.76**	**1.304**	*2.30*		1.31	*0.28*			**0.06**		0.17
Bardet-Biedl syndrome 12 protein	**Q6ZW61**					*0.33*	0.33					*1.54*	1.54					*0.73*	0.73						ND
Basement membrane-specific heparan sulf	**P98160**	**1.27**	**1.34**	**0.799**	**1.07**	**0.97**	1.09	**1.58**	**1.59**	**1.289**	**0.92**	**1.11**	1.30	**1.44**	**1.20**	**0.817**	**0.74**	**0.65**	0.97	*1.12*	**0.93**		**0.29**		0.78
Beta-2-glycoprotein 1	**P02749**					*0.30*	0.30					*7.17*	7.17					*4.71*	4.71						ND
Beta-enolase	**P13929**	**1.08**				**0.94**	1.01	**3.35**				**3.31**	3.33	**1.93**				**0.28**	1.11						ND
Biglycan	**P21810**	**1.63**	**1.14**	**1.252**	**0.80**	**1.23**	1.21	**1.85**	**2.04**	**1.816**	**1.86**	**1.18**	1.75	**1.50**	**0.92**	**0.988**	**0.72**	**1.57**	1.14	**0.92**	**0.65**	**0.876**	**0.39**	**0.83**	0.73
Bone morphogenetic protein 3b	**P55107**		*1.35*		*6.26*		3.80		*1.10*		*2.64*		1.87		*0.50*		*1.48*		0.99						ND
Calmodulin	**P62158**						ND						ND						ND				**3.07**		3.07
Carbohydrate sulfotransferase 3	**Q7LGC8**						ND						ND						ND						ND
Carbonic anhydrase 1	**P00915**	**0.79**	**1.15**	**1.103**	**0.80**	**0.41**	0.85	**2.50**	**0.74**	**0.594**	**3.92**	**0.63**	1.68	**4.52**	**1.08**	**2.150**	**0.42**	**0.40**	1.71	**3.74**	**2.65**	**2.885**	*0.17*	**0.35**	1.96
Carbonic anhydrase 2	**P00918**	**1.50**					1.50	**2.72**					2.72	**4.51**					4.51	*2.28*					2.28
Carbonic anhydrase 3	**P07451**	*0.63*	**2.45**	**0.832**		**1.34**	1.31	*3.88*	**3.59**	**2.475**		**6.10**	4.01	*4.43*	**0.39**	**0.618**		**0.43**	1.47	*3.77*					3.77
Carbonyl reductase [NADPH] 3	**O75828**						ND						ND						ND						ND
Protein name	**Accesion**	**F7**	**F6**	**F3**	**F9**	**F2**	**F-mean**	**H7**	**H6**	**H3**	**H9**	**H2**	**H-mean**	**K7**	**K6**	**K3**	**K9**	**K2**	**K-mean**	**M7**	**M6**	**M3**	**M9**	**M2**	**M-mean**

Protein name	Accesion	F7	F6	F3	F9	F2	F-mean	H7	H6	H3	H9	H2	H-mean	K7	K6	K3	K9	K2	K-mean	M7	M6	M3	M9	M2	M-mean
Cartilage intermediate layer protein 1	O75339	0.20	1.41	0.915	2.22	1.06	1.16	0.21	0.27	0.645	0.41	0.38	0.38	0.30	0.79	0.949	1.14	0.24	0.68	0.30	0.48	0.684	0.20	0.28	0.39
Cartilage intermediate layer protein 2	Q8IUL8	0.70	1.64	1.570	2.40	2.99	1.86	0.93	0.77	2.246	1.61	2.05	1.52	1.64	1.55	2.370	1.72	1.19	1.69	0.69	0.88	1.192	0.29	1.16	0.84
Cartilage matrix protein	P21941	0.04	0.33	0.028	0.04	0.05	0.10	0.07	0.25	0.070	0.09	0.21	0.14	0.06	0.36	0.061	0.08	0.06	0.12	0.12		0.065	0.05		0.08
Cartilage oligomeric matrix protein	P49747	0.44	2.41	0.957	2.84	1.88	1.70	0.54	0.49	1.732	0.96	2.38	1.22	1.32	2.79	2.525	2.68	0.79	2.02	1.50	1.64	1.852	0.43	1.59	1.40
Cathepsin D	P07339						ND						ND						ND				0.75		0.75
Cathepsin G	P08311						ND						ND						ND				0.96		0.96
C-C motif chemokine 21	O00585					0.26	0.26					0.28	0.28					0.25	0.25						ND
CD44 antigen	P16070						ND						ND						ND	1.69					1.69
CD9 antigen	P21926						ND						ND						ND						ND
Ceruloplasmin	P00450					0.20	0.20					2.01	2.01					1.61	1.61		1.89			0.47	1.18
Chondroadherin	O15335	1.18	1.68	1.149	1.52	0.81	1.27	1.27	1.20	1.239	1.54	0.94	1.24	0.70	0.51	0.677	0.65	0.38	0.58	0.16	0.11	0.183	0.06	0.08	0.12
Chondroitin sulfate proteoglycan 4	Q6UVK1						ND						ND						ND						ND
Chondromodulin-1	O75829			0.433		0.14	0.29			0.099		0.15	0.12			0.000		0.17	0.09						ND
Chordin-like protein 2	Q6WN34						ND						ND						ND			0.853			0.85
Clusterin	P10909	1.01	1.75	0.993	2.55	1.63	1.59	0.84	0.67	1.020	1.12	0.39	0.81	1.29	1.06	1.518	2.11	0.50	1.29	1.01	0.81	1.296	0.59	0.96	0.93
Coagulation factor XIII A chain	P00488		0.51	0.425			0.47		0.86	0.721			0.79		0.87	0.719			0.80		0.43			0.00	0.21
Cofilin-1	P23528				0.85		0.85				1.54		1.54				1.22		1.22						ND
Coiled-coil domain-containing protein 80	Q76M96	0.44		0.453	0.48	0.70	0.52	0.31		0.375	0.59	0.81	0.52	0.46		0.256	0.50	0.19	0.35	0.17	0.11		0.04	0.09	0.10
Collagen alpha-1(I) chain	P02452	1.72	0.66	1.416	1.12	1.14	1.21	2.34	1.16	4.498	2.51	1.18	2.34	1.44	0.73	1.632	0.82	1.16	1.16	1.20	1.17	2.063	0.48	4.25	1.83
Collagen alpha-1(II) chain	P02458	2.92	1.30	2.062	1.53	2.39	2.04	3.98	1.98	6.842	4.38	2.42	3.92	2.34	0.92	2.252	1.16	1.68	1.67	0.09	0.10	0.181	0.08	0.29	0.15
Collagen alpha-1(III) chain	P02461	1.29	0.88	0.786	0.97	1.36	1.06	2.11	1.30	2.916	2.49	2.20	2.20	3.25	1.27	2.989	1.93	1.43	2.17	1.06	1.53	4.254	0.66	4.00	2.30
Collagen alpha-1(IX) chain	P20849	3.96					3.96	6.76					6.76	4.21					4.21						ND
Collagen alpha-1(V) chain	P20908		0.83	2.005		0.45	1.09		1.29	3.907		1.12	2.11		0.75	2.595		1.26	1.53	0.29	2.09		1.08	6.32	2.44
Collagen alpha-1(VI) chain	P12109	0.28	0.54	0.426	0.63	0.46	0.47	0.44	0.67	1.038	0.98	1.79	0.98	0.65	1.02	1.028	0.77	0.94	0.88	2.76	3.36	2.815	0.75	1.09	2.15
Collagen alpha-1(X) chain	Q03692					0.22	0.22					0.20	0.20					0.08	0.08	0.12	0.04		0.20		0.12
Collagen alpha-1(XI) chain	P12107	0.46	0.80	1.380			0.88	0.47	1.29	3.527			1.76	0.57	0.67	2.176			1.14	0.26	2.00	2.403			1.55
Collagen alpha-1(XII) chain	Q99715	1.92				1.38	1.65	2.83				2.40	2.62	1.26				2.15	1.71						ND
Collagen alpha-1(XXI) chain	Q96P44						ND						ND						ND						ND
Collagen alpha-1(XXIII) chain	Q86Y22		0.34				0.34		0.53				0.53		0.62				0.62		1.63				1.63
Collagen alpha-2(I) chain	P08123	0.28	0.29	0.336	0.14	0.17	0.24	0.61	0.54	0.532	0.26	0.49	0.49	0.30	0.57	0.369	0.28	0.76	0.46	1.50	1.29	3.215	0.77	5.58	2.47
Collagen alpha-2(IX) chain	Q14055						ND						ND						ND				0.16		0.16
Collagen alpha-2(V) chain	P05997	2.38	0.90	0.765			1.35	2.87	1.26	1.514			1.88	1.67	0.62	2.633			1.64	0.28	0.26		0.17	0.74	0.36
Collagen alpha-2(VI) chain	P12110	0.35	0.53	0.595	0.77	0.56	0.56	0.49	0.74	1.309	1.20	2.19	1.19	0.84	1.03	1.368	0.99	1.13	1.07	2.82	3.29	2.739	1.21	0.82	2.17
Collagen alpha-2(XI) chain	P13942	0.60	0.92	1.178	0.85	0.84	0.88	0.71	1.20	2.001	1.52	1.11	1.31	0.75	0.54	1.247	0.80	0.46	0.76		2.00	0.000	0.82	5.69	2.13
Collagen alpha-3(IX) chain	Q14050					0.72	0.72					0.56	0.56					0.26	0.26						ND
Collagen alpha-3(VI) chain	P12111	0.36	0.53	0.478	0.59	0.47	0.48	0.47	0.64	0.900	1.03	1.84	0.97	0.64	0.91	0.872	0.71	0.97	0.82	2.33	3.10	2.741	0.62	2.08	2.17
Complement C1q subcomponent subunit A	P02745	1.30	1.14				1.22	2.38	7.09				4.74	1.35	1.20				1.27						ND
Complement C1s subcomponent	P09871						ND						ND						ND	0.95	0.75			0.27	0.66
Complement C3	P01024	0.64		0.792	1.07	0.82	0.83	1.64		0.877	5.28	4.38	3.04	1.48		2.046	1.97	3.36	2.21	7.72				0.75	4.24
Complement C4-A	P0C0L4					0.08	0.08					2.50	2.50					1.55	1.55		1.05				1.05
Complement factor B	P00751					0.87	0.87					4.66	4.66					3.41	3.41				1.57		1.57
Complement factor D	P00746	1.74	1.62	0.990			1.45	1.56	2.31	1.873			1.92	2.47	4.10	1.612			2.73		1.70	1.837			1.77
Complement factor H	P08603			2.744		1.12	1.93			2.268		4.69	3.48			1.485		4.94	3.21					1.54	1.54
Complement factor H-related protein 1	Q03591					1.12	1.12					4.69	4.69					4.94	4.94					1.54	1.54
Creatine kinase M-type	P06732	0.72	2.97	1.440		1.49	1.65	3.35	7.28	4.726		6.69	5.51	2.73	0.80	1.379		0.47	1.34	5.04	0.46		0.18		1.89
C-type lectin domain family 11 member A	Q9Y240	1.88	1.00	0.785		0.43	1.02	2.13	1.94	1.446		0.68	1.55	1.53	0.60	0.748		1.23	1.03		0.25	0.000	0.00		0.08
C-type lectin domain family 3 member A	O75596	0.24	1.34	0.427	1.16	1.16	0.87	0.24	0.86	0.521	0.77	5.62	1.60	0.40	0.36	0.635	0.76	0.46	0.52	0.18	0.09	0.360	0.03	0.06	0.14
C-X-C motif chemokine 14	O95715						ND						ND						ND						ND
Cystatin-B	P04080						ND						ND						ND			1.949			1.95
Cystatin-C	P01034						ND						ND						ND						ND
Cysteine-rich protein 2	P52943						ND						ND						ND	1.32					1.32
Decorin	P07585	0.59	0.97	0.690	0.98	1.00	0.85	0.73	0.53	0.838	0.66	1.32	0.82	1.20	1.44	1.409	1.35	0.82	1.24	1.63	1.48	2.314	0.76	1.64	1.56
Dermatopontin	Q07507						ND						ND						ND	2.18	2.39		1.06	3.59	2.30
Destrin	P60981						ND						ND						ND						ND
Dihydropyrimidinase-related protein 2	Q16555					0.26	0.26					0.86	0.86					1.00	1.00	3.03					3.03
Dihydropyrimidinase-related protein 3	Q14195						ND						ND						ND		3.05				3.05

Disheveled-associated activator of morphog	Q86T65						ND						ND						ND			#####			11.68
Dolichyl-diphosphooligosaccharide--protein	P04843						ND						ND						ND						ND
Ectonucleotide pyrophosphatase/phosphod	P22413						ND						ND						ND						ND
EGF-like repeat and discoidin I-like domain	O43854		0.87	0.574	0.95	1.23	0.90		0.64	0.654	0.98	0.66	0.73		0.57	0.506	0.82	0.30	0.55	0.30			0.40		0.35
EH domain-containing protein 2	Q9NZN4						ND						ND						ND		3.76				3.76
Elongation factor Tu GTP-binding domain-c	Q7Z2Z2		0.93				0.93		1.14				1.14		0.99				0.99						ND
Endoplasmin	P14625		1.25				1.25		2.13				2.13		1.41				1.41						ND
Epiphycan	Q99645						ND						ND						ND						ND
Extracellular superoxide dismutase [Cu-Zn]	P08294	0.61	0.65	0.592	0.58	0.29	0.54	1.07	0.68	1.203	0.95	0.51	0.88	0.80	0.73	0.866	0.91	0.89	0.84	1.70	0.83	2.119	0.47	1.03	1.23
Fascin	Q16658						ND						ND						ND						ND
Fatty acid desaturase 2-like protein	A8MWK0						ND						ND						ND	1.88					1.88
Fatty acid-binding protein, adipocyte	P15090					0.47	0.47					1.39	1.39					1.16	1.16		3.08		2.08	0.23	1.80
F-box only protein 2	Q9UK22						ND						ND						ND						ND
F-box/WD repeat-containing protein 12	Q6X9E4						ND						ND						ND				1.50		1.50
Ferritin heavy chain	P02794					1.31	1.31					2.79	2.79					1.68	1.68						ND
Ferritin light chain	P02792			2.193			2.19			2.631			2.63			1.634			1.63	1.05	1.24	1.567	0.25	0.58	0.94
Fibrinogen alpha chain	P02671		2.48				2.48		2.52				2.52		2.17				2.17	6.66				0.72	3.69
Fibrinogen beta chain	P02675						ND						ND						ND					0.45	0.45
Fibrinogen gamma chain	P02679					0.72	0.72					3.51	3.51					3.82	3.82		2.21		1.72	0.73	1.55
Fibroblast growth factor-binding protein 2	Q9BYJ0	2.19	2.52	1.881	3.29	1.39	2.25	1.84	1.97	2.413	3.15	0.72	2.02	1.62	1.06	1.217	2.06	0.30	1.25	0.19	0.24	0.440	0.14		0.25
Fibromodulin	Q06828	1.43	1.42	1.454	1.25	1.34	1.38	1.39	1.76	1.903	1.82	1.42	1.66	1.24	1.36	1.451	0.94	1.23	1.24	0.99	0.77	0.981	0.34	0.91	0.80
Fibronectin	P02751	0.17	0.83	0.357	0.84	0.43	0.52	0.24	0.25	0.398	0.25	0.47	0.32	0.45	1.09	0.501	1.30	0.18	0.70	0.23	0.17	0.273	0.08	0.08	0.17
Filamin-B	O75369						ND						ND						ND						ND
Fin bud initiation factor homolog	Q8TAL6		1.62			2.95	2.28		1.13			2.17	1.65		1.05			1.68	1.36						ND
Flavin reductase	P30043	0.77	1.08	1.117	1.10		1.02	2.14	1.12	0.984	2.73		1.74	2.67	1.36	1.605	0.62		1.56		1.41	1.733			1.57
Four and a half LIM domains protein 1	Q13642	0.44	1.49	0.541	0.23		0.68	1.26	2.06	1.135	0.63		1.27	1.04	0.87	0.588	0.54		0.76			1.728	2.21	0.51	1.48
Fructose-bisphosphate aldolase A	P04075		2.22	0.951		1.46	1.54		4.61	1.226		2.94	2.92		1.24	0.858		1.09	1.06	1.22			0.82		1.02
Galectin-1	P09382	0.85				0.63	0.74	0.98				1.85	1.42	1.20				1.71	1.45	2.80			1.49		2.15
Galectin-3	P17931						ND						ND						ND						ND
Gelsolin	P06396	0.83	0.65	0.921	0.70	0.58	0.74	0.93	1.62	1.811	1.57	1.47	1.48	1.02	1.43	1.092	0.93	1.69	1.23	2.22	1.27	2.155	0.84	1.53	1.60
Glia-derived nexin	P07093	0.34			0.24		0.29	0.26			0.19		0.22	0.14			0.15		0.14	0.58	0.30	0.285	0.16	0.12	0.29
Glutathione peroxidase 3	P22352						ND						ND						ND						ND
Glutathione S-transferase P	P09211						ND						ND						ND						ND
Glyceraldehyde-3-phosphate dehydrogenas	P04406	0.70	1.55	1.003	0.94	0.81	1.00	1.23	1.67	1.299	1.45	1.43	1.41	1.38	1.00	1.046	0.87	1.01	1.06	2.34	1.47	1.253	0.56	0.79	1.28
Glycogen phosphorylase, brain form	P11216						ND						ND						ND						ND
Glycogen phosphorylase, liver form	P06737						ND						ND						ND						ND
Haptoglobin	P00738	0.86			1.38		1.12	3.47			5.88		4.67	2.93			1.42		2.17			3.487	3.04	1.17	2.57
Haptoglobin-related protein	P00739						ND						ND						ND						ND
HEAT repeat-containing protein 7A	Q8NDA8						ND						ND						ND	0.41					0.41
Heat shock 70 kDa protein 1	P08107		1.54				1.54		2.21				2.21		1.47				1.47						ND
Heat shock 70 kDa protein 6	P17066			0.745			0.75			0.913			0.91			0.994			0.99						ND
Heat shock cognate 71 kDa protein	P11142						ND						ND						ND				1.23		1.23
Heat shock protein beta-1	P04792						ND						ND						ND						ND
Heat shock protein HSP 90-alpha	P07900						ND						ND						ND						ND
Hemoglobin subunit alpha	P69905	1.31	0.98	3.823	1.81	1.13	1.81	3.68	1.03	2.268	5.97	2.07	3.00	4.61	1.00	5.948	1.72	1.18	2.89	3.75	1.89	3.054	0.75	0.76	2.04
Hemoglobin subunit beta	P68871	1.27	1.00	3.031	1.24	0.99	1.51	3.52	1.02	1.833	4.19	1.94	2.50	4.11	1.07	4.355	1.19	1.21	2.39	2.74	1.84	3.425	0.64	0.58	1.85
Hemoglobin subunit delta	P02042					1.06	1.06					2.12	2.12					1.29	1.29				0.69	0.50	0.59
Hemoglobin subunit gamma-1	P69891	1.23					1.23	3.50					3.50	4.08					4.08	2.64				0.94	1.79
Hemopexin	P02790	0.65	1.22	0.716	0.61	0.88	0.81	1.76	2.94	1.535	1.98	4.60	2.56	1.69	2.05	2.875	1.59	3.04	2.25	3.36	7.53	5.645	3.06	0.70	4.06
Heterogeneous nuclear ribonucleoprotein D	Q14103			0.766		0.38	0.57			1.216		1.52	1.37			0.967		1.60	1.28		1.50		1.20		1.35
HHIP-like protein 2	Q6UWX4	2.05	3.43	1.116	2.94		2.39	2.08	1.93	2.185	2.15		2.08	1.40	1.04	1.971	1.02		1.36	0.24	0.86			0.20	0.44
Histone H1,0	P07305	0.96				0.49	0.73	1.23				0.71	0.97	1.30				1.20	1.25				1.05		1.05
Histone H1,2	P16403	0.98	1.01	1.144	0.73	0.44	0.86	0.98	1.27	1.553	0.97	0.67	1.09	1.12	0.78	0.884	0.60	1.00	0.88	0.80	1.16	1.171	0.56	0.99	0.93
Histone H1,3	P16402						ND						ND						ND				1.22		1.22
Histone H1,4	P10412	0.90	0.96	1.264	0.74	0.57	0.89	1.01	1.54	1.814	1.30	0.97	1.33	1.70	0.83	0.907	0.64	1.32	1.08	0.44	1.95	1.516	0.61	1.41	1.19
Histone H1,5	P16401						ND						ND						ND				1.01		1.01
Protein name	**Accesion**	**F7**	**F6**	**F3**	**F9**	**F2**	**F-mean**	**H7**	**H6**	**H3**	**H9**	**H2**	**H-mean**	**K7**	**K6**	**K3**	**K9**	**K2**	**K-mean**	**M7**	**M6**	**M3**	**M9**	**M2**	**M-mean**

Protein name	Accesion	F7	F6	F3	F9	F2	F-mean	H7	H6	H3	H9	H2	H-mean	K7	K6	K3	K9	K2	K-mean	M7	M6	M3	M9	M2	M-mean
Histone H2A type 1	P0C0S8	0.99	0.89	1.153	1.04	0.70	0.96	1.69	1.01	1.695	1.75	1.48	1.52	1.40	0.97	1.064	1.09	1.61	1.23	1.33	0.76	0.996	1.03	0.81	0.99
Histone H2B type 1-B	P33778	0.97		0.805	0.93	0.60	0.83	1.33		1.321	1.60	1.27	1.38	1.19		0.820	0.88	1.67	1.14	2.09			1.50	1.00	1.53
Histone H2B type 1-D	P58876	0.95	0.92	0.803	0.94		0.90	1.30	1.62	1.326	1.61		1.46	1.18	1.06	0.818	0.88		0.98	2.10			1.45		1.78
Histone H2B type 1-K	O60814						ND						ND						ND			1.638			1.64
Histone H2B type 2-E	Q16778						ND						ND						ND						ND
Histone H3,2	Q71DI3						ND						ND						ND						ND
Histone H3,3	P84243					0.82	0.82					1.97	1.97					2.11	2.11						ND
Histone H3-like	Q6NXT2	1.23	0.97	0.903			1.03	1.92	1.75	1.787			1.82	1.92	1.48	1.478			1.63	1.67	1.05	1.628	1.44		1.45
Histone H4	P62805	1.05		1.222	1.54	0.98	1.20	1.51		1.263	1.40	1.55	1.43	1.50		0.921	1.09	1.49	1.25				0.59		0.59
Histone-lysine N-methyltransferase MLL3	Q8NEZ4	1.09			1.49	1.64	1.41	0.98			1.73	1.53	1.41	1.18			1.42	1.22	1.27		1.11		0.56		0.83
Homeobox protein Hox-D13	P35453						ND						ND						ND						ND
Homeobox-containing protein 1	Q6NT76			0.837			0.84			1.577			1.58			0.523			0.52						ND
Hyaluronan and proteoglycan link protein 1	P10915	2.08	2.29	1.957	2.66	2.42	2.28	1.21	1.55	1.197	1.73	0.61	1.26	1.15	1.30	0.665	0.65	0.90	0.93	0.07	0.10	0.085	0.02	0.04	0.06
Hyaluronan and proteoglycan link protein 4	Q86UW8						ND						ND						ND			0.265			0.27
Ig alpha-1 chain C region	P01876			1.886		0.47	1.18			0.999		2.16	1.58			3.724		2.09	2.91				1.28	1.17	1.22
Ig gamma-1 chain C region	P01857	0.25	1.13	0.943	0.44	0.41	0.63	0.67	1.92	0.946	1.36	2.28	1.43	0.57	2.03	2.271	0.98	2.04	1.58	1.44	3.29	4.392	0.88	0.99	2.20
Ig gamma-2 chain C region	P01859	0.18	1.19	0.646	0.47	0.66	0.63	0.44	2.28	0.477	1.36	2.34	1.38	0.37	1.86	1.661	0.89	1.99	1.35	1.33	3.32		0.45	1.01	1.53
Ig gamma-3 chain C region	P01860			1.495		0.41	0.95			0.990		2.13	1.56			1.672		1.94	1.80		3.46	#####	0.93	1.19	4.52
Ig gamma-4 chain C region	P01861						ND						ND						ND					0.76	0.76
Ig heavy chain V-I region EU	P01742					0.23	0.23					1.44	1.44					1.41	1.41				0.64		0.64
Ig heavy chain V-III region WEA	P01763						ND						ND						ND						ND
Ig kappa chain C region	P01834	0.47	0.84	0.871	0.65	0.43	0.65	0.78	1.51	0.798	1.00	2.12	1.24	0.83	1.55	1.914	0.95	2.05	1.46	1.33	2.87	3.367	0.47	0.83	1.77
Ig kappa chain V-III region SIE	P01620						ND						ND						ND						ND
Ig lambda chain C regions	P01842	0.42	0.74	1.254	0.63	0.52	0.71	0.87	1.32	0.964	1.81	2.56	1.50	0.81	1.10	2.712	1.07	2.17	1.57		2.58	5.117	0.94	1.05	2.42
Immunoglobulin superfamily containing leuc	O14498						ND						ND						ND						ND
Inhibin beta A chain	P08476						ND						ND						ND		1.33		0.38		0.86
Insulin-like growth factor-binding protein 7	Q16270						ND						ND						ND					0.18	0.18
Inter-alpha-trypsin inhibitor heavy chain H1	P19827						ND						ND						ND			5.679			5.68
Inter-alpha-trypsin inhibitor heavy chain H5	Q6UXX5	1.60				1.02	1.31	1.36				0.41	0.88	0.84				0.39	0.61						ND
Isocitrate dehydrogenase [NADP] cytoplasr	O75874						ND						ND						ND						ND
Keratin, type II cytoskeletal 1	P04264	1.62					1.62	3.10					3.10	2.05					2.05						ND
Kinesin heavy chain isoform 5A	Q12840			0.891			0.89			1.403			1.40			1.263			1.26						ND
Lactadherin	Q08431	0.94	0.88	0.831	1.56	0.42	0.92	0.61	0.42	0.920	0.74	0.28	0.59	0.62	0.40	0.478	0.58	0.19	0.45	0.49	0.46	0.478	0.12	0.29	0.37
Lactotransferrin	P02788						ND						ND						ND				0.28		0.28
Lambda-crystallin homolog	Q9Y2S2						ND						ND						ND						ND
Lamin-A/C	P02545	0.58	0.43		0.36	0.48	0.46	0.84	1.20		1.14	1.63	1.20	0.98	0.70		0.57	1.96	1.05	3.92	3.66	1.293	2.04		2.73
Leucine-rich alpha-2-glycoprotein	P02750						ND						ND						ND				3.07		3.07
Leukocyte cell-derived chemotaxin-2	O14960	1.75	1.73		1.43	0.75	1.42	2.32	1.26		1.53	0.75	1.46	2.32	0.92		0.91	0.41	1.14	0.34			0.07		0.20
Leukocyte elastase	P08246						ND						ND						ND	0.91				0.66	0.78
L-lactate dehydrogenase A chain	P00338	1.11	1.71	1.118	2.10	2.95	1.80	1.09	1.66	1.419	3.63	3.60	2.28	1.86	1.36	1.314	2.11	2.06	1.74	2.14	1.90		0.36		1.47
L-lactate dehydrogenase B chain	P07195						ND						ND						ND						ND
Lubricin (proteoglycan 4)	Q92954	0.96	0.40	0.600	0.40	0.18	0.51	0.43	0.37	0.477	0.26	0.13	0.33	0.39	0.26	0.483	0.48	0.18	0.36	0.45	0.29	0.633	0.14	0.08	0.32
Lumican	P51884	0.31	0.45	0.188	0.36	0.31	0.32	0.52	0.43	0.368	0.35	0.91	0.51	1.31	1.00	0.830	1.21	0.70	1.01	1.41	1.48	2.452	0.92	1.10	1.47
Lysozyme C	P61626	1.20	1.55	0.995	1.65	0.49	1.18	1.02	0.49	0.999	0.63	0.26	0.68	1.24	0.37	0.824	0.68	0.18	0.66	0.14	0.13	0.163	0.05	0.08	0.11
Malate dehydrogenase, cytoplasmic	P40925						ND						ND						ND						ND
Malate dehydrogenase, mitochondrial	P40926						ND						ND						ND				1.18		1.18
Matrilin-3	O15232		1.85	1.140	1.49	1.36	1.46		0.85	0.540	0.21	0.55	0.54		1.64	0.783	0.32	0.33	0.77			0.167	0.03		0.10
Matrix Gla protein	P08493						ND						ND						ND						ND
Melanoma-derived growth regulatory protei	Q16674						ND						ND						ND						ND
Melanotransferrin	P08582						ND						ND						ND		0.25				0.25
Microfibril-associated glycoprotein 4	P55083						ND						ND						ND	2.52			0.54		1.53
Mimecan	P20774	0.36	0.37	0.253	0.22	0.62	0.37	0.49	0.59	0.682	0.71	2.79	1.05	1.42	1.66	1.344	1.45	1.75	1.52	1.83	2.24	3.606	0.96	3.10	2.35
Mitofusin-1	Q8IWA4						ND						ND						ND		0.19				0.19
Moesin	P26038			1.464	1.39	0.92	1.26			1.956	1.84	1.91	1.90			1.401	1.03	1.37	1.27		1.76		0.57		1.17
Myeloblastin	P24158						ND						ND						ND	1.76					1.76
Myocilin	Q99972						ND						ND						ND	6.05				0.92	3.49

Protein name	Accesion	F7	F6	F3	F9	F2	F-mean	H7	H6	H3	H9	H2	H-mean	K7	K6	K3	K9	K2	K-mean	M7	M6	M3	M9	M2	M-mean
Myoglobin	P02144	0.40		0.954		2.13	1.16	2.36		2.663		11.90	5.64	1.38		0.677		0.41	0.82						ND
Myosin light polypeptide 6	P60660						ND						ND						ND						ND
Myosin-2	Q9UKX2						ND						ND						ND						ND
Myosin-7	P12883						ND						ND						ND						ND
Nesprin-2	Q8WXH0						ND						ND						ND					1.23	1.23
Neuroblast differentiation-associated protei	Q09666	0.82	0.99	0.516			0.77	1.40	1.13	1.356			1.30	1.12	0.95	1.179			1.08	3.91			2.74		3.33
Neuron navigator 3	Q8IVL0	0.25			0.00	0.41	0.22	0.63			0.30	0.80	0.58	1.05			0.71	0.80	0.85	1.07	1.29		1.01		1.12
Nidogen-2	Q14112						ND						ND						ND						ND
Nucleoside diphosphate kinase A	P15531						ND						ND						ND						ND
Nucleoside diphosphate kinase B	P22392						ND						ND						ND						ND
Osteomodulin	Q99983	0.57	2.01	1.762	1.58	2.17	1.62	0.70	1.17	1.582	1.16	3.07	1.53	1.11	2.01	1.990	1.87	1.38	1.67	0.41	0.45			0.22	0.36
Peptidyl-prolyl cis-trans isomerase A	P62937	1.00	1.18		0.84	0.99	1.00	1.44	1.30		1.63	2.19	1.64	1.33	1.02		0.82	1.66	1.21	2.11	1.29		0.61	0.42	1.10
Peptidyl-prolyl cis-trans isomerase B	P23284	0.65	1.19	0.798		0.80	0.86	0.82	1.00	0.688		1.50	1.00	0.92	0.84	0.609		1.06	0.86		1.12				1.12
Peptidyl-prolyl cis-trans isomerase C	P45877				1.75		1.75				0.94		0.94				0.71		0.71				0.19		0.19
Peroxiredoxin-1	Q06830		1.41	1.118	1.26	0.75	1.13		1.43	1.411	1.72	1.02	1.40		1.34	1.118	1.25	0.90	1.15	1.49	0.76	1.658	0.58		1.12
Peroxiredoxin-2	P32119	0.72	0.99	1.559	1.09	0.61	0.99	2.15	1.50	1.269	2.83	1.18	1.79	2.36	1.09	2.265	0.84	1.10	1.53	2.87	2.04	1.933	0.38	0.74	1.59
Peroxiredoxin-4	Q13162					0.84	0.84					1.15	1.15					1.22	1.22						ND
Peroxiredoxin-5, mitochondrial	P30044					1.77	1.77					4.58	4.58					3.41	3.41						ND
Peroxiredoxin-6	P30041	1.14				0.87	1.00	1.76				1.60	1.68	2.50				0.86	1.68						ND
Phosphatidylethanolamine-binding protein	P30086	0.94			0.76	0.68	0.79	1.29			1.58	1.40	1.42	1.17			0.72	0.79	0.89						ND
Phosphoglycerate kinase 1	P00558	1.11	1.69	1.532	1.61	1.49	1.48	1.46	2.03	1.600	2.04	1.60	1.74	2.48	1.76	1.559	1.38	1.21	1.68	1.42	1.43		0.59		1.15
Phosphoglycerate mutase 1	P18669	1.11	1.88	1.179	1.71		1.47	1.55	1.80	0.902	1.90		1.54	2.04	1.70	0.666	1.17		1.39						ND
Phosphoglycerate mutase 2	P15259						ND						ND						ND	2.10					2.10
Phospholipase A2, membrane associated	P14555	8.21	3.86	5.303	13.51	3.21	6.82	3.47	1.02	3.650	2.98	1.93	2.61	7.72	2.99	4.208	9.02	0.91	4.97	0.14	0.12	0.162	0.22	0.06	0.14
Pigment epithelium-derived factor	P36955	1.04	1.06	0.000	0.59	0.69	0.68	1.72	1.68	1.463	1.33	3.54	1.94	1.46	1.36	1.379	0.88	3.39	1.69	1.99					1.99
Plasma protease C1 inhibitor	P05155						ND						ND						ND	2.03	1.05		0.49	0.53	1.03
Plasma serine protease inhibitor	P05154						ND						ND						ND	0.52	0.53		0.12	0.37	0.39
Plasminogen activator inhibitor 1	P05121						ND						ND						ND		0.39		0.00		0.20
Plasminogen	P00747					0.23	0.23					4.28	4.28					6.64	6.64				2.95	1.53	2.24
Pleckstrin homology domain-containing fam	Q9Y2H5	7.05	3.05	3.981	7.80		5.47	2.78	0.66	3.033	1.49		1.99	5.81	1.85	3.372	5.23		4.06	0.13	0.08				0.10
Pleiotrophin	P21246						ND						ND						ND						ND
Plexin domain-containing protein 2	Q6UX71						ND						ND						ND		0.53		0.25		0.39
Polymerase I and trascript release factor	Q6NZI2			0.654		4.23	2.44			1.100		1.11	1.10			0.988		1.01	1.00	1.67			1.61		1.64
Probable serine protease HTRA3	P83110						ND						ND						ND				0.47		0.47
Procollagen C-endopeptidase enhancer 1	Q15113	1.34		0.838		1.10	1.09	1.65		1.117		3.25	2.00	0.00		1.049		2.43	1.16	3.80				4.24	4.02
Procollagen C-endopeptidase enhancer 2	Q9UKZ9	0.71	1.27	1.296	2.28	1.49	1.41	1.08	1.21	1.732	2.32	0.74	1.42	0.88	1.53	1.687	3.02	0.67	1.56	0.99			0.28	4.24	1.84
Profilin-1	P07737						ND						ND						ND						ND
Prolargin	P51888	1.22	1.03	0.986	0.94	0.87	1.01	1.36	1.21	1.422	1.41	0.96	1.27	1.49	1.14	1.286	1.06	1.08	1.21	1.57	1.13	1.679	0.77	1.06	1.24
Protein disulfide-isomerase A3	P30101		1.36				1.36		2.41				2.41		1.55				1.55				1.68		1.68
Protein disulfide-isomerase	P07237	1.06	1.07	1.632	1.59	1.25	1.32	1.01	1.32	1.119	1.04	3.21	1.54	1.50	1.21	0.891	1.24	1.51	1.27	1.57	1.22		1.04	0.00	0.96
Protein FAM59B	Q75VX8					1.20	1.20					1.32	1.32					1.19	1.19						ND
Protein piccolo	Q9Y6V0						ND						ND						ND						ND
Protein S100-A1	P23297		5.23		2.64	2.81	3.56		4.49		4.56	2.05	3.70		3.38		2.49	1.79	2.55					1.11	1.11
Protein S100-A4	P26447					0.39	0.39					2.19	2.19					1.54	1.54		2.01		1.73		1.87
Protein S100-A6	P06703					0.78	0.78					1.81	1.81					1.69	1.69						ND
Protein S100-A8	P05109						ND						ND						ND		1.04		0.43		0.74
Protein S100-A9	P06702	0.29	0.35	1.096	1.37	0.31	0.68	1.39	1.20	0.310	1.34	0.77	1.00	0.74	0.17	0.256	0.36	0.87	0.48	0.97	0.30	0.575	0.49	0.72	0.61
Protein S100-B	P04271	1.01	2.29	1.569	2.21	0.86	1.59	1.47	3.06	1.654	4.48	0.86	2.31	1.46	1.51	0.944	1.23	0.63	1.15		0.62	0.000	0.04	0.00	0.16
Protein transport protein Sec16B	Q96JE7				1.53	2.50	2.02				3.61	2.20	2.91				0.97	1.34	1.16						ND
Prothrombin	P00734					0.82	0.82					3.26	3.26					4.13	4.13						ND
Putative annexin A2-like protein	A6NMY6		0.98				0.98		1.85				1.85		1.37				1.37						ND
Putative elongation factor 1-alpha-like 3	Q5VTE0	0.71	1.19		2.62	0.62	1.28	1.44	2.00		1.29	2.04	1.69	1.27	1.57		1.33	1.22	1.35		0.98				0.98
Putative endoplasmin-like protein	Q58FF3						ND						ND						ND						ND
Putative V-set and immunoglobulin domain-	A6NJS3				0.19		0.19				1.23		1.23				0.89		0.89			3.103			3.10
Pyruvate kinase isozymes M1/M2	P14618	0.76	1.31	1.015	1.30	0.89	1.06	0.94	1.68	1.199	1.64	1.16	1.32	1.32	1.45	1.130	1.24	0.98	1.22	1.19	1.10	0.804	0.44	0.65	0.84
Quinone oxidoreductase	Q08257	1.33					1.33	0.86					0.86	1.36					1.36						ND

Protein name	Accesion	F7	F6	F3	F9	F2	F-mean	H7	H6	H3	H9	H2	H-mean	K7	K6	K3	K9	K2	K-mean	M7	M6	M3	M9	M2	M-mean
Rab GDP dissociation inhibitor beta	P50395					1.47	1.47					4.41	4.41					2.33	2.33		1.35				1.35
Ras GTPase-activating-like protein IQGAP1	P46940						ND						ND						ND						ND
Ras-like protein family member 11A	Q6T310						ND						ND						ND		0.57				0.57
Reticulocalbin-3	Q96D15					0.71	0.71					1.36	1.36					1.05	1.05	0.87			0.00		0.43
Retinoic acid receptor responder protein 2	Q99969	3.15	3.15	1.429	2.47	3.24	2.69	3.97	2.76	1.842	3.28	2.08	2.79	3.13	2.23	1.820	1.93	1.20	2.06	1.46	0.86	1.236	0.43		0.99
Retinol-binding protein 4	P02753						ND						ND						ND	1.31					1.31
Rho GTPase-activating protein 18-like	Q5TG30						ND						ND						ND						ND
Rho GTPase-activating protein 30	Q7Z6I6						ND						ND						ND						ND
Ribonuclease 4	P34096	1.51	1.45			1.04	1.33	1.34	0.90			0.43	0.89	1.53	0.71			0.26	0.84	0.58	0.70	1.454	0.15		0.72
Ribosome-binding protein 1	Q9P2E9		1.06				1.06		1.39				1.39		0.88				0.88						ND
Secernin-1	Q12765						ND						ND						ND						ND
Secreted frizzled-related protein 3	Q92765						ND						ND						ND				0.15		0.15
Selenium-binding protein 1	Q13228	0.91					0.91	1.70					1.70	1.31					1.31						ND
Semaphorin-4A	Q9H3S1						ND						ND						ND		0.40				0.40
Semaphorin-4C	Q9C0C4						ND						ND						ND					0.00	0.00
Serine protease HTRA1	Q92743	0.42	0.74	0.513	1.41	0.62	0.74	0.31	0.26	0.507	0.42	0.32	0.36	0.39	0.79	0.488	1.81	0.17	0.73	0.50	0.33	0.853	0.16	0.28	0.43
Serotransferrin	P02787	0.63	0.88	0.910	0.45	0.63	0.70	1.89	2.41	0.993	1.21	2.61	1.82	1.47	1.49	1.889	0.97	2.40	1.64	2.95	3.45	4.132	2.70	0.94	2.83
Serum albumin	P02768	0.27	0.73	0.954	0.54	0.91	0.68	1.01	2.42	0.780	1.71	4.07	2.00	1.03	1.25	2.797	1.36	3.47	1.98	3.43	3.99	6.575	4.66	1.25	3.98
Serum amyloid P-component	P02743	0.82			0.00		0.41	0.76			2.39		1.58	0.97			0.00		0.49	6.86					6.86
SPARC	P09486	0.18	0.26			0.24	0.23	0.22	0.35			2.03	0.86	0.29	0.22			0.50	0.34		0.23		0.10		0.16
SPARC-related modular calcium-binding pr	Q9H3U7	1.84	2.82	1.784	2.56	1.69	2.14	0.73	0.73	0.923	0.89	1.07	0.87	1.21	0.98	1.497	1.26	0.47	1.08						ND
Spectrin alpha chain, brain	Q13813						ND						ND						ND						ND
Stanniocalcin-2	O76061						ND						ND						ND						ND
Stromal cell-derived factor 1	P48061			1.127			1.13			0.955			0.96			0.909			0.91	0.36			0.05		0.21
Stromelysin-1	P08254						ND						ND						ND	3.72	2.03				2.88
Superoxide dismutase [Cu-Zn]	P00441					1.03	1.03					1.39	1.39					1.26	1.26						ND
Sushi repeat-containing protein SRPX2	O60687	0.30	0.79	0.782	0.71	0.92	0.70	0.56	1.10	1.678	0.91	2.03	1.25	0.51	0.86	1.257	0.74	1.24	0.92	0.28	0.38	0.398	0.10	0.20	0.27
Target of Nesh-SH3	Q7Z7G0	0.15	0.11	0.117	0.21	0.14	0.15	0.16	0.11	0.292	0.44	0.20	0.24	0.22	0.18	0.197	0.82	0.23	0.33	0.98	1.23	1.642	0.44	0.57	0.97
Tenascin	P24821					0.73	0.73					16.22	16.22					2.86	2.86	3.82	5.39		0.45		3.22
Tenascin-X	P22105	0.24	0.80	0.262	0.53	0.57	0.48	0.51	1.14	0.716	1.60	1.53	1.10	0.54	0.94	0.687	0.86	1.15	0.84	2.82	4.56	3.330	1.32	2.35	2.88
Tetranectin	P05452	1.41	0.82	1.331			1.19	2.77	1.98	2.472			2.41	2.09	1.72	1.609			1.81	2.99			1.82		2.40
Thrombospondin type-1 domain-containing	Q6ZMP0						ND						ND						ND						ND
Thrombospondin-1	P07996	1.12	1.59	0.682	0.74	0.83	0.99	1.34	0.92	1.379	1.31	0.54	1.10	1.40	0.96	0.973	0.68	0.91	0.98	3.35	2.08	2.623	0.49	1.25	1.96
Thrombospondin-3	P49476	0.41	1.62	0.756		1.27	1.01	0.47	0.33	1.377		1.64	0.96	0.97	1.86	1.701		0.63	1.29	1.57		1.722	0.31	1.59	1.30
Thrombospondin-4	P35443	0.32					0.32	0.38					0.38	0.91					0.91						ND
Transaldolase	P37837						ND						ND						ND						ND
Transforming growth factor-beta-induced pr	Q15582	0.62			0.48	0.48	0.52	1.34			1.03	6.15	2.84	1.45			0.82	1.89	1.39	5.28	2.01	2.173	0.49		2.49
Transgelin	Q01995						ND						ND						ND						ND
Transketolase	P29401						ND						ND						ND						ND
Translationally-controlled tumor protein	P13693						ND						ND						ND						ND
Transmembrane protein 132D	Q14C87						ND						ND						ND	0.67					0.67
Transthyretin	P02766	0.53	0.97	0.868		0.50	0.72	0.95	1.58	1.185		1.37	1.27	1.00	1.65	1.781		1.46	1.47	1.82	2.44		0.99	1.05	1.57
Triosephosphate isomerase	P60174	0.78	1.31	1.063	1.25	1.39	1.16	1.40	2.06	1.715	2.08	2.56	1.97	1.39	1.24	1.130	1.04	1.34	1.23	1.46	1.54		0.78	0.79	1.14
Tropomyosin alpha-4 chain	P67936						ND						ND						ND						ND
Tropomyosin beta chain	P07951						ND						ND						ND						ND
Tryptase beta-1	Q15661						ND						ND						ND						ND
Tubulin alpha-1C chain	Q9BQE3						ND						ND						ND						ND
Tubulin beta-2B chain	Q9BVA1	0.55				0.31	0.43	0.82				0.86	0.84	0.70				0.80	0.75	1.82			0.76		1.29
Tumor necrosis factor receptor superfamily	O00300		0.00			0.28	0.14		0.00			0.19	0.09		0.00			0.06	0.03	0.20	0.26	0.230	0.13		0.21
Ubiquitin carboxyl-terminal hydrolase 25	Q9UHP3						ND						ND						ND				0.08		0.08
Ubiquitin	P62988					0.95	0.95					2.65	2.65					1.96	1.96						ND
UDP-GlcNAc:betaGal beta-1,3-N-acetylgluc	Q8NFL0						ND						ND						ND				0.58		0.58
Uncharacterized protein C12orf70	A6NFE2					0.42	0.42					2.15	2.15					2.00	2.00						ND
UTP--glucose-1-phosphate uridylyltransfera	Q16851					0.39	0.39					2.47	2.47					1.07	1.07						ND
Vacuolar protein sorting-associated protein	Q9P253				3.07		3.07				1.48		1.48				1.81		1.81						ND
Vascular endothelial growth factor receptor	P17948						ND						ND						ND		1.04				1.04

Versican core protein	**P13611**	**0.15**	*0.34*		**0.22**	*0.27*	0.24	**0.19**	*0.27*		**0.14**	*0.20*	0.20	**0.20**	*0.52*		**0.39**	*0.16*	0.32	**1.45**	**2.56**	**2.082**	**0.88**	**0.50**	1.49
Vimentin	**P08670**	**0.47**	**0.62**	**0.469**	**0.45**	**0.31**	0.46	**0.80**	**0.98**	**0.913**	**0.92**	**1.18**	0.96	**1.10**	**1.09**	**0.943**	**0.82**	**1.19**	1.03	**2.23**	**2.15**	**1.686**	**1.17**	**0.90**	1.63
Vitamin D-binding protein	**P02774**					**1.30**	1.30					**3.51**	3.51					**3.92**	3.92		*12.87*		**4.31**	**1.89**	6.35
Vitrin	**Q6UXI7**	**6.68**	**2.24**		**0.73**		3.22	**12.13**	**10.39**		**11.54**		11.35	**2.60**	**1.21**		**1.51**		1.77						ND
Vitronectin	**P04004**	**1.53**		**1.033**		**0.59**	1.05	**2.15**		**1.136**		**1.37**	1.55	**1.40**		**2.345**		**2.84**	2.19	**5.67**	**2.72**	**7.664**	**2.38**	**1.90**	4.07
Zinc-alpha-2-glycoprotein	**P25311**						ND						ND						ND					*2.90*	2.90
Protein name	**Accesion**	**F7**	**F6**	**F3**	**F9**	**F2**	**F-mean**	**H7**	**H6**	**H3**	**H9**	**H2**	**H-mean**	**K7**	**K6**	**K3**	**K9**	**K2**	**K-mean**	**M7**	**M6**	**M3**	**M9**	**M2**	**M-mean**

Supplemental table 1 continued

Protein name	Accesion	AF7	AF6	AF3	AF9	AF2	AF-mean	NP7	NP6	NP3	NP9	NP2	NP-mean	R (A)	R (B)	R (C)	R (D)	R (E)	R (F)	R-mean	T(A)	T (B)	T (C)	T (D)	T (E)	T (F)	T-mean
14-3-3 protein eta	**Q04917**						ND						ND	*1.44*						1.44		*2.92*	*2.99*				2.96
14-3-3 protein gamma	**P61981**	**0.93**	*0.65*				0.79	**0.52**	*0.68*				0.60							ND							ND
14-3-3 protein theta	**P27348**						ND						ND				**1.27**			1.27					**0.52**	**1.21**	0.86
14-3-3 protein zeta/delta	**P63104**						ND						ND				**1.26**			1.26					**0.50**	**1.18**	0.84
1-phosphatidylinositol-4,5-bisphosphate ph	**P51178**						ND						ND	**1.42**			*3.14*	*1.65*	*1.23*	1.86		**4.07**	**3.27**	*3.12*	*1.41*	*2.24*	2.82
40S ribosomal protein S20	**P60866**						ND						ND							ND							ND
4-trimethylaminobutyraldehyde dehydrogen	**P49189**						ND						ND		*1.00*	*1.37*				1.18	*4.66*						4.66
78 kDa glucose-regulated protein	**P11021**	*1.56*					1.56	*1.63*					1.63		*0.84*	*0.94*				0.89	*2.65*						2.65
Actin, alpha cardiac muscle 1	**P68032**						ND						ND				**2.27**	**1.66**	**0.87**	1.60				**2.48**	**3.22**	**2.60**	2.77
Actin, aortic smooth muscle	**P62736**						ND						ND							ND							ND
Actin, cytoplasmic 1	**P60709**	**0.97**	**0.58**	**0.592**	**0.38**	**1.24**	0.75	**0.85**	**0.83**	**0.616**	**0.51**	**1.57**	0.87	**1.63**	**1.03**	**1.24**	**2.24**	**1.72**	**0.84**	1.45	**4.59**	**3.03**	**3.14**	**2.40**	**3.18**	**2.63**	3.16
Adenomatous polyposis coli protein 2	**O95996**			**1.230**		**1.22**	1.23			**0.936**		**1.80**	1.37							ND							ND
Adenylate kinase isoenzyme 1	**P00568**						ND						ND	*4.81*						4.81		*9.04*	*9.22*				9.13
Adenylyl cyclase-associated protein 1	**Q01518**						ND						ND		**1.47**	**1.42**				1.44	**2.79**						2.79
Adipocyte enhancer-binding protein 1	**Q8IUX7**						ND						ND							ND							ND
Adseverin	**Q9Y6U3**						ND						ND	**1.22**			*4.56*			2.89		**5.51**	**5.05**		*1.04*	*4.17*	3.94
Aggrecan core protein	**P16112**	**1.55**	**1.50**	**1.119**	**1.08**	**0.84**	1.22	**1.01**	**1.19**	**0.773**	**1.08**	**1.10**	1.03	**1.12**	**1.70**	**1.80**	**0.91**	**1.16**	**1.10**	1.30	**1.16**	**1.40**	**1.26**	**1.00**	**0.88**	**1.11**	1.14
Alcohol dehydrogenase [NADP+]	**P14550**			*1.651*			1.65			*1.053*			1.05	**0.84**	*0.56*	*0.65*	**1.76**	*1.10*	*0.96*	0.98	*1.21*	**1.62**	**1.46**	*1.94*	**1.08**	**2.24**	1.59
Alcohol dehydrogenase 1B	**P00325**		*0.56*				0.56		*0.34*				0.34				*2.26*			2.26					*1.18*	*1.69*	1.44
Alpha-1-acid glycoprotein 1	**P02763**	**1.03**	**0.91**	**0.840**	**1.39**	**1.81**	1.19	**0.82**	**0.61**	**0.940**	**0.88**	**7.57**	2.16	**0.52**	**0.60**	**0.42**	*0.36*	**0.59**	**0.49**	0.50	**0.83**	**0.81**	**0.65**	**0.54**	*0.57*	*0.36*	0.63
Alpha-1-antichymotrypsin	**P01011**	**0.98**		**1.203**	**0.88**	**1.22**	1.07	**0.95**		**1.609**	**0.91**	**10.21**	3.42				*0.57*			0.57					*0.25*	*0.72*	0.48
Alpha-1-antitrypsin	**P01009**	**1.11**	**1.17**	**1.136**	**0.74**	**0.81**	0.99	**1.21**	**2.11**	**1.289**	**1.34**	**5.29**	2.25	**0.69**	**1.41**	**1.05**	**0.39**	**3.32**	**1.59**	1.41	**0.82**	**0.52**	**0.68**	**0.49**	**0.96**	**0.54**	0.67
Alpha-1B-glycoprotein	**P04217**				*0.84*	**1.81**	1.32				*0.70*	**7.57**	4.14							ND							ND
Alpha-2-HS-glycoprotein	**P02765**	*1.16*			*0.40*	**2.03**	1.19	*0.60*			*0.24*	**8.09**	2.98							ND							ND
Alpha-2-macroglobulin	**P01023**	**0.50**	**0.26**	**0.259**	**0.13**	**0.25**	0.28	**0.81**	**0.65**	**0.658**	**0.20**	**0.81**	0.62	**3.01**	**3.01**	**6.07**	**0.82**	**3.78**	**2.98**	3.28	**1.57**	**2.81**	**2.47**	**1.00**	**2.70**	**2.17**	2.12
Alpha-actinin-1	**P12814**						ND						ND	**1.71**	*0.89*	*1.43*	*2.75*			1.70	*4.47*	**4.92**	**4.49**		*0.00*	*1.44*	3.06
Alpha-crystallin B chain	**P02511**			**0.568**	**0.66**		0.61			**0.466**	**0.33**		0.40							ND							ND
Alpha-enolase	**P06733**	**1.02**	**0.94**	**0.694**	**0.57**	**0.82**	0.81	**0.60**	**0.76**	**1.055**	**0.30**	**1.04**	0.75	**1.41**	**0.96**	**1.52**	**1.74**	**0.65**	**0.83**	1.19	**2.69**	**2.38**	**2.30**	**1.84**	**0.78**	**1.85**	1.97
Angiogenin	**P03950**	**3.68**	**3.41**	**2.528**	**6.08**	*2.53*	3.65	**4.08**	**2.88**	**2.477**	**5.24**	*2.28*	3.39	**3.97**	**1.50**	**1.86**	**3.17**	**4.89**	**2.38**	2.96	**2.66**	**1.29**	**1.52**	**3.60**	**2.58**	**1.63**	2.21
Angiopoietin-related protein 2	**Q9UKU9**		**1.77**		**1.18**		1.47		**1.07**		*0.53*		0.80	**0.72**			**0.32**			0.52		**1.21**	**1.09**		**0.47**	**0.45**	0.81
Angiopoietin-related protein 7	**O43827**	**1.11**					1.11	**0.64**					0.64		**3.37**	**4.82**		**0.31**	**1.95**	2.61	**1.36**			**0.32**			0.84
Annexin A1	**P04083**	**1.15**	**0.70**		**0.46**		0.77	**0.71**	**0.71**		**0.28**		0.57	**0.83**	**1.16**	**1.46**	**1.30**	**0.30**	**0.44**	0.92	**2.32**	**2.81**	**2.46**	**1.41**	**1.19**	**1.92**	2.02
Annexin A2	**P07355**	**0.89**	**0.65**		**0.46**		0.67	**0.57**	**0.56**		**0.32**		0.48	**0.65**	**1.04**	**1.41**	**1.71**			1.20	**2.92**	**2.07**	**2.23**		**1.23**	**1.55**	2.00
Annexin A5	**P08758**	*0.67*	**0.28**		**0.39**		0.45	*0.43*	**0.36**		**0.34**		0.38	**0.88**	**0.78**	**1.17**	**1.96**	**0.89**	**1.03**	1.12	**4.22**	**4.14**	**3.83**	**2.48**	**0.64**	**3.73**	3.17
Annexin A6	**P08133**	**1.02**			*0.54*		0.78	**0.43**			*0.40*		0.42	**0.96**	**1.09**	**1.35**	**3.08**	**0.70**	**0.71**	1.32	**4.61**	**3.68**	**4.02**	**2.63**	**1.59**	**2.72**	3.21
Antithrombin-III	**P01008**				*1.14*		1.14				*0.38*		0.38							ND							ND
Apolipoprotein A-I	**P02647**	**0.81**	**0.42**	*0.245*	**0.47**	**1.06**	0.60	**0.36**	**0.25**	*0.000*	**0.13**	**5.93**	1.33		**0.60**	**0.51**	*0.59*			0.57	**2.19**				*0.85*	*1.05*	1.36
Apolipoprotein D	**P05090**	**4.65**	**1.17**	**1.429**	**2.57**	**1.24**	2.21	**6.66**	**2.76**	**2.289**	**4.64**	**18.60**	6.99				**0.51**	**6.98**	**3.11**	3.53				**0.64**	**3.58**	**1.45**	1.89
Argininosuccinate synthase	**P00966**						ND						ND	*0.69*						0.69		*3.05*	*3.37*				3.21
Asporin	**Q9BXN1**	**0.56**	**0.27**	**0.586**	**0.18**	**0.21**	0.36	**0.44**	**0.30**	**0.547**	**0.27**	**0.36**	0.38	**0.13**	**0.12**	**0.15**	**0.10**	**0.16**	**0.11**	0.13	**0.26**	**0.13**	**0.18**	**0.11**	**0.14**	**0.15**	0.16
ATP synthase subunite beta, mitochondrial	**P06576**						ND						ND		*0.89*	*0.83*	**1.23**			0.98	*3.71*				**1.36**	**1.47**	2.18
Augurin	**Q9H1Z8**	*0.62*			**0.29**		0.45	*0.23*			*0.00*		0.12	**1.59**	**3.09**	**2.29**	*0.31*	**0.44**	**1.40**	1.52	**0.73**	**0.34**	**0.50**	**0.49**	*0.25*	*0.12*	0.41
Bardet-Biedl syndrome 12 protein	**Q6ZW61**						ND						ND							ND							ND
Basement membrane-specific heparan sulf	**P98160**	*1.19*	**1.23**		**0.78**		1.07	*0.31*	**0.72**		**0.29**		0.44	**1.84**	**1.58**	**1.99**	**1.26**	**0.85**	**0.86**	1.39	**2.31**	**2.72**	**2.40**	**1.38**	**1.02**	**1.84**	1.94
Beta-2-glycoprotein 1	**P02749**						ND						ND							ND							ND
Beta-enolase	**P13929**						ND						ND							ND							ND
Biglycan	**P21810**	**0.59**	**0.46**	**0.623**	**0.38**	**0.52**	0.52	**0.26**	**0.34**	**0.430**	**0.15**	**0.44**	0.33	**1.84**	**1.56**	**2.16**	**1.23**	**0.67**	**1.22**	1.44	**1.83**	**1.54**	**1.63**	**1.24**	**0.40**	**1.12**	1.29
Bone morphogenetic protein 3b	**P55107**						ND						ND							ND							ND
Calmodulin	**P62158**				**0.92**		0.92				**0.84**		0.84					*1.47*	*1.55*	1.51				*5.06*			5.06
Carbohydrate sulfotransferase 3	**Q7LGC8**						ND						ND		*2.41*	*2.16*				2.28	*0.33*						0.33
Carbonic anhydrase 1	**P00915**	**0.97**	**0.77**	**1.048**	*0.21*	**1.42**	0.88	**0.98**	**0.95**	**1.336**	*0.34*	**4.35**	1.59	**0.42**	*0.44*	*0.45*	**0.53**	**0.42**	**0.27**	0.42	*0.92*	**1.42**	**2.03**	**0.65**	**1.42**	**0.34**	1.13
Carbonic anhydrase 2	**P00918**	*1.29*					1.29	*1.03*					1.03							ND							ND
Carbonic anhydrase 3	**P07451**	*0.50*					0.50	*0.22*					0.22	**2.63**	*2.49*	*1.30*		**2.49**	*0.00*	1.78	*2.29*	**1.20**	**4.08**	**1.11**			2.17
Carbonyl reductase [NADPH] 3	**O75828**						ND						ND				**2.13**			2.13					**1.15**	**2.62**	1.88
Protein name	**Accesion**	**AF7**	**AF6**	**AF3**	**AF9**	**AF2**	**AF-mean**	**NP7**	**NP6**	**NP3**	**NP9**	**NP2**	**NP-mean**	**R (A)**	**R (B)**	**R (C)**	**R (D)**	**R (E)**	**R (F)**	**R-mean**	**T(A)**	**T (B)**	**T (C)**	**T (D)**	**T (E)**	**T (F)**	**T-mean**

Protein name	Accesion	AF7	AF6	AF3	AF9	AF2	AF-mean	NP7	NP6	NP3	NP9	NP2	NP-mean	R (A)	R (B)	R (C)	R (D)	R (E)	R (F)	R-mean	T(A)	T (B)	T (C)	T (D)	T (E)	T (F)	T-mean
Cartilage intermediate layer protein 1	O75339	0.97	1.35	1.184	1.54	0.94	1.20	0.46	0.95	1.061	0.43	0.62	0.70	1.14	0.56	0.52	0.07	0.28	0.76	0.55	0.12	0.16	0.12	0.10	0.17	0.08	0.13
Cartilage intermediate layer protein 2	Q8IUL8	1.51	1.03	1.282	1.04	1.51	1.27	0.73	0.91	1.201	0.39	2.40	1.13		0.33	0.33	0.10	0.28	0.38	0.29	0.37			0.40	0.15	0.12	0.26
Cartilage matrix protein	P21941	0.16		0.056	0.09		0.10	0.10		0.043	0.06		0.07	4.14	3.42	6.31	3.23	1.03	7.60	4.29	7.11	3.68	8.50	4.96	1.36	7.30	5.48
Cartilage oligomeric matrix protein	P49747	1.82	1.53	1.166	1.46	1.47	1.49	1.10	1.56	1.187	0.54	1.79	1.23	0.31	0.28	0.38	0.07	0.25	0.29	0.26	0.09	0.08	0.08	0.07	0.07	0.07	0.08
Cathepsin D	P07339				0.64		0.64				0.46		0.46							ND							ND
Cathepsin G	P08311				1.62		1.62				2.89		2.89							ND							ND
C-C motif chemokine 21	O00585						ND						ND	4.51	2.96	2.60	3.56	0.97	2.40	2.83	4.75	2.89	1.86	2.15	1.28	0.80	2.29
CD44 antigen	P16070	1.19					1.19	0.00					0.00							ND							ND
CD9 antigen	P21926						ND						ND				2.41			2.41					0.51	0.58	0.55
Ceruloplasmin	P00450		1.25			1.32	1.28		3.45			6.53	4.99							ND							ND
Chondroadherin	O15335	1.46	0.86	1.215	1.06	1.11	1.14	1.02	1.35	1.091	1.20	1.88	1.31	1.65	2.30	2.39	1.67	1.78	1.92	1.95	1.77	2.83	1.73	1.88	0.93	1.94	1.85
Chondroitin sulfate proteoglycan 4	Q6UVK1						ND						ND		2.35	1.73		1.73	0.96	1.69	1.90			1.40			1.65
Chondromodulin-1	O75829						ND						ND	2.04	3.58	4.26	1.73	1.68	1.53	2.47	3.51	3.16	4.27	2.51	0.97	2.50	2.82
Chordin-like protein 2	Q6WN34			2.145			2.15			1.444			1.44							ND							ND
Clusterin	P10909	2.82	1.54	0.917	1.71	1.35	1.67	2.15	1.86	1.283	0.85	3.14	1.85	0.67	0.75	0.89	0.24	0.47	0.76	0.63	0.32	0.37	0.48	0.33	0.55	0.87	0.49
Coagulation factor XIII A chain	P00488		0.91			1.22	1.06		1.19			2.46	1.83	1.20	1.36	1.58	2.98	0.62	0.92	1.44	2.11	3.08	1.96	2.74	1.43	3.67	2.50
Cofilin-1	P23528						ND						ND							ND							ND
Coiled-coil domain-containing protein 80	Q76M96	1.56	2.01		0.72	1.68	1.49	1.19	3.01		0.57	2.35	1.78	1.55	2.77	2.95		0.65	1.08	1.80	0.92	0.80	0.66	0.67			0.76
Collagen alpha-1(I) chain	P02452	0.84	1.10	1.843	1.25	0.67	1.14	0.38	0.52	1.181	0.29	0.96	0.67	1.03	1.14	2.25	0.79	0.68	0.71	1.10	1.48	1.36	1.50	0.78	0.66	0.57	1.06
Collagen alpha-1(II) chain	P02458	0.75	0.92	1.895	0.89	0.61	1.01	0.42	0.66	1.299	0.55	1.17	0.82	1.50	1.77	3.35	1.02	0.84	0.93	1.57	2.19	2.12	2.22	1.14	0.30	0.78	1.46
Collagen alpha-1(III) chain	P02461	0.57	0.66	1.587	0.64	0.64	0.82	0.26	0.38	0.897	0.18	2.54	0.85	0.37	0.27	0.39	0.26	0.36	0.24	0.31	0.44	0.28	0.42	0.31	0.32	0.18	0.32
Collagen alpha-1(IX) chain	P20849						ND						ND	2.27	2.92	4.68		2.87	6.57	3.86	2.66	2.94	2.96	3.91			3.12
Collagen alpha-1(V) chain	P20908	1.72	1.66		2.47	0.89	1.69	0.00	0.66		0.31	0.49	0.37							ND							ND
Collagen alpha-1(VI) chain	P12109	0.63	0.54	0.713	0.45	0.77	0.62	0.20	0.29	0.445	0.18	1.35	0.49	0.67	0.34	0.49	0.85	0.35	0.27	0.49	1.78	0.87	1.12	0.85	0.45	0.55	0.94
Collagen alpha-1(X) chain	Q03692	0.16	0.33		0.23		0.24	0.09	0.15		0.08		0.10	4.91	6.90	2.54	0.75			3.78	1.32	1.41	1.61		0.95	0.65	1.19
Collagen alpha-1(XI) chain	P12107	0.91	1.64	2.173			1.58	0.32	0.68	2.085			1.03	1.22	1.03	1.52	0.77			1.14	2.01	1.54	2.15		1.30	0.34	1.47
Collagen alpha-1(XII) chain	Q99715						ND						ND							ND							ND
Collagen alpha-1(XXI) chain	Q96P44						ND						ND					0.47	0.00	0.24				0.51			0.51
Collagen alpha-1(XXIII) chain	Q86Y22		1.71				1.71		1.48				1.48							ND							ND
Collagen alpha-2(I) chain	P08123	1.17	1.27	1.548	1.75	0.87	1.32	0.72	0.55	0.700	0.19	0.59	0.55	0.39	0.38	0.43	0.50	0.42	0.29	0.40	0.72	0.59	0.63	0.37	1.23	0.59	0.69
Collagen alpha-2(IX) chain	Q14055				0.41		0.41				0.58		0.58	1.43	2.40	3.88				2.57	4.54	2.87	3.39				3.60
Collagen alpha-2(V) chain	P05997	0.61	0.96		0.78	0.52	0.72	0.26	0.67		0.52	0.94	0.60		1.60	3.22	0.97			1.93	2.29				0.28	0.84	1.13
Collagen alpha-2(VI) chain	P12110	0.80	0.59	0.840	0.61	0.76	0.72	0.40	0.39	0.611	0.17	1.20	0.55	0.76	0.57	0.77	0.80	0.40	0.30	0.60	1.73	1.38	1.45	0.88	0.47	0.71	1.10
Collagen alpha-2(XI) chain	P13942		1.63	5.358	1.29	0.88	2.29		0.69	2.899	0.37	0.51	1.12	1.28	1.19	1.82	0.95	0.75	1.06	1.18	2.37	2.51	2.81	0.94	0.90	0.98	1.75
Collagen alpha-3(IX) chain	Q14050						ND						ND		1.44	1.72				1.58	1.36						1.36
Collagen alpha-3(VI) chain	P12111	0.81	0.61	0.861	0.41	0.68	0.67	0.37	0.38	0.591	0.17	1.05	0.51	0.61	0.53	0.57	0.79	0.46	0.35	0.55	1.75	1.24	1.24	0.77	0.49	0.87	1.06
Complement C1q subcomponent subunit A	P02745						ND						ND							ND							ND
Complement C1s subcomponent	P09871	3.06	2.13			1.74	2.31	3.45	3.69			5.36	4.17							ND							ND
Complement C3	P01024	1.39				2.00	1.70	0.82				20.40	10.61	0.62	0.00	0.44				0.35	2.36	1.54	3.09				2.33
Complement C4-A	P0C0L4		1.29				1.29		1.29				1.29	0.87						0.87		3.60	4.85				4.22
Complement factor B	P00751				0.65		0.65				0.49		0.49	0.68						0.68		3.34	5.49				4.41
Complement factor D	P00746		1.39	1.148			1.27		1.98	1.675			1.83	0.65			1.47			1.06		2.23	2.17		1.52	1.69	1.91
Complement factor H	P08603					1.15	1.15					7.94	7.94							ND							ND
Complement factor H-related protein 1	Q03591					1.15	1.15					7.94	7.94							ND							ND
Creatine kinase M-type	P06732	0.82	0.57		0.09		0.49	0.40	0.68		0.24		0.44	4.08	2.28	2.44	0.46	3.27	0.61	2.19	2.72	1.73	4.14	1.10	3.80	0.58	2.35
C-type lectin domain family 11 member A	Q9Y240		0.86	0.674	0.59		0.71		0.78	0.000	0.63		0.47	0.72	0.93	1.21	0.45	0.83	0.49	0.77	0.92	1.43	0.98	0.62	0.75	0.28	0.83
C-type lectin domain family 3 member A	O75596	0.91	0.73	0.749	0.72	0.74	0.77	0.50	0.52	0.800	0.44	0.52	0.56	1.86	2.34	2.60	0.78	0.72	1.45	1.62	1.53	1.80	2.36	1.02	0.62	1.56	1.48
C-X-C motif chemokine 14	O95715						ND						ND	1.85	1.43	3.28	2.08	0.72	2.09	1.91	2.18	1.38	1.43	3.20	0.61	2.23	1.84
Cystatin-B	P04080			1.516			1.52			1.690			1.69	2.21						2.21		4.25	7.12				5.68
Cystatin-C	P01034						ND						ND					1.50	5.10	3.30				0.91			0.91
Cysteine-rich protein 2	P52943	0.80					0.80	0.43					0.43				2.18			2.18					0.61	3.13	1.87
Decorin	P07585	1.34	1.39	0.833	1.17	1.16	1.18	0.41	0.80	0.492	0.37	0.67	0.55	0.43	0.52	0.56	0.06	0.35	0.48	0.40	0.22	0.13	0.14	0.14	0.15	0.13	0.15
Dermatopontin	Q07507	1.29	1.07		0.51	1.16	1.00	1.08	1.85		0.82	2.31	1.51							ND							ND
Destrin	P60981						ND						ND	1.55						1.55		4.06	4.54				4.30
Dihydropyrimidinase-related protein 2	Q16555	0.82					0.82	0.60					0.60							ND							ND
Dihydropyrimidinase-related protein 3	Q14195		0.75				0.75		0.95				0.95							ND							ND

Protein name	Accesion	AF7	AF6	AF3	AF9	AF2	AF-mean	NP7	NP6	NP3	NP9	NP2	NP-mean	R (A)	R (B)	R (C)	R (D)	R (E)	R (F)	R-mean	T(A)	T (B)	T (C)	T (D)	T (E)	T (F)	T-mean
Disheveled-associated activator of morphog	Q86T65			0.809			0.81			1.362			1.36							ND							ND
Dolichyl-diphosphooligosaccharide--protein	P04843						ND						ND		2.15	2.66		0.64	1.33	1.69	5.69			2.18			3.94
Ectonucleotide pyrophosphatase/phosphod	P22413						ND						ND	1.08			5.22			3.15		5.41	4.90		0.99	4.85	4.04
EGF-like repeat and discoidin I-like domain	O43854	1.65			0.83		1.24	1.20			0.67		0.93		1.19	0.91		0.83	1.11	1.01	0.10			0.66			0.38
EH domain-containing protein 2	Q9NZN4		0.28				0.28		0.25				0.25	1.76						1.76		2.50	3.25				2.87
Elongation factor Tu GTP-binding domain-c	Q7Z2Z2						ND						ND							ND							ND
Endoplasmin	P14625						ND						ND		1.58	1.69	1.55	1.31	0.96	1.42	2.92			1.38	1.30	2.48	2.02
Epiphycan	Q99645						ND						ND	2.86	3.87	5.27	1.00	1.41	1.77	2.70	3.28	2.89	4.16	1.30	0.57	1.98	2.36
Extracellular superoxide dismutase [Cu-Zn]	P08294	1.54	1.48	1.004	0.97	0.74	1.15	1.11	1.70	1.123	0.48	1.22	1.13	0.74	1.38	1.85	0.37	2.88	1.62	1.47	0.43	0.44	0.62	0.24	1.42	0.56	0.62
Fascin	Q16658						ND						ND		1.12	1.40	1.37			1.30	2.19				1.46	2.04	1.90
Fatty acid desaturase 2-like protein	A8MWK0	1.01					1.01	0.45					0.45							ND							ND
Fatty acid-binding protein, adipocyte	P15090		0.47		0.27	0.67	0.47		0.26		0.28	0.89	0.47	0.77						0.77		0.96	0.81				0.88
F-box only protein 2	Q9UK22						ND						ND	1.24	0.53	0.87	2.80			1.36	4.12	4.19	4.47		0.32	6.19	3.86
F-box/WD repeat-containing protein 12	Q6X9E4				7.38		7.38				4.38		4.38							ND							ND
Ferritin heavy chain	P02794						ND						ND	0.79			2.46			1.63		2.78	2.48		1.11	3.26	2.41
Ferritin light chain	P02792	2.64	1.33	2.340	0.83	0.93	1.61	2.85	2.20	4.477	0.71	2.94	2.64				1.75			1.75					0.86	6.11	3.48
Fibrinogen alpha chain	P02671	2.29				2.84	2.56	0.97				31.21	16.09	0.87			1.11			0.99		2.21	6.79		2.07	0.65	2.93
Fibrinogen beta chain	P02675					1.35	1.35					9.17	9.17							ND							ND
Fibrinogen gamma chain	P02679		0.48		0.76	1.91	1.05		0.49		0.47	23.93	8.30							ND							ND
Fibroblast growth factor-binding protein 2	Q9BYJ0	1.77	1.55	1.463	1.86		1.66	1.00	1.51	1.520	1.18		1.30	0.72	1.86	1.94		0.43	1.18	1.23	0.84	1.01	0.90	0.51			0.82
Fibromodulin	Q06828	0.93	0.65	0.704	0.63	0.85	0.75	0.30	0.28	0.368	0.16	0.40	0.30	1.67	2.09	2.27	1.06	1.00	1.44	1.59	1.39	1.41	1.43	1.19	0.42	1.02	1.14
Fibronectin	P02751	1.83	2.83	0.663	1.57	1.50	1.68	1.85	3.02	1.732	0.73	1.26	1.72	0.55	0.73	0.94	0.04	0.47	1.49	0.70	0.09	0.11	0.10	0.10	0.21	0.10	0.12
Filamin-B	O75369						ND						ND		1.28	1.86				1.57	5.03						5.03
Fin bud initiation factor homolog	Q8TAL6						ND						ND							ND							ND
Flavin reductase	P30043		0.77	0.837			0.80		0.94	1.217			1.08				1.82	0.64	0.56	1.01				1.36	1.32	1.61	1.43
Four and a half LIM domains protein 1	Q13642			0.346	0.12	0.27	0.24			0.330	0.05	0.38	0.25	2.27	2.61	1.00		1.47	0.52	1.57	4.17	1.71	2.01	1.06			2.23
Fructose-bisphosphate aldolase A	P04075	1.47			0.39		0.93	0.91			0.29		0.60					1.83	0.86	1.34				1.34			1.34
Galectin-1	P09382	0.83			0.39		0.61	0.48			0.25		0.37	1.06	1.31	1.43	1.74	1.26	0.60	1.23	3.74	1.73	2.11	1.82	2.04	1.26	2.12
Galectin-3	P17931						ND						ND	1.02			2.11			1.56		3.98	4.12		1.31	2.62	3.01
Gelsolin	P06396	0.75	0.48	0.709	0.37	0.67	0.60	0.61	0.60	0.772	0.30	1.78	0.81	0.63	0.68	0.95	2.03	0.74	0.73	0.96	3.34	2.91	3.55	2.10	1.00	2.32	2.54
Glia-derived nexin	P07093	2.50	2.91	0.918	1.50	0.76	1.72	1.73	4.08	1.650	2.15	1.23	2.17							ND							ND
Glutathione peroxidase 3	P22352						ND						ND					0.94	0.90	0.92				0.88			0.88
Glutathione S-transferase P	P09211						ND						ND	1.79	1.42	1.93	3.93			2.27	4.41	3.22	3.40		1.78	2.49	3.06
Glyceraldehyde-3-phosphate dehydrogenas	P04406	0.88	0.60	0.576	0.34	0.40	0.56	0.75	0.57	0.757	0.27	0.65	0.60	1.25	0.97	1.13	2.05	0.86	0.70	1.16	2.75	2.51	2.24	1.98	1.16	1.88	2.08
Glycogen phosphorylase, brain form	P11216						ND						ND				1.75			1.75					1.02	5.64	3.33
Glycogen phosphorylase, liver form	P06737						ND						ND	1.49	1.36	1.94	6.25	0.73	0.90	2.11	10.09	6.25	7.41	4.69	1.22	3.68	5.56
Haptoglobin	P00738			1.076	0.79	1.75	1.20			0.882	0.69	11.38	4.32							ND							ND
Haptoglobin-related protein	P00739						ND						ND	0.91			0.90			0.91		1.49	1.69		1.88	1.04	1.53
HEAT repeat-containing protein 7A	Q8NDA8	0.00					0.00	0.00					0.00							ND							ND
Heat shock 70 kDa protein 1	P08107						ND						ND	1.01	1.34	2.21	1.57	1.10	1.04	1.38	4.61	3.48	4.10	1.69	1.37	1.57	2.80
Heat shock 70 kDa protein 6	P17066						ND						ND							ND							ND
Heat shock cognate 71 kDa protein	P11142				0.67		0.67				0.55		0.55	0.97	0.86	1.02	2.15	0.95	0.91	1.14	3.42	4.01	4.29	2.41	1.08	3.94	3.19
Heat shock protein beta-1	P04792						ND						ND	1.05			1.17	1.42	0.83	1.11		1.95	2.23	1.31	1.16	1.60	1.65
Heat shock protein HSP 90-alpha	P07900						ND						ND				3.12			3.12					1.54	3.00	2.27
Hemoglobin subunit alpha	P69905	1.17	0.67	1.211	0.43	5.47	1.79	1.16	0.86	1.590	1.07	14.79	3.90	0.69	1.67	1.13	1.25	0.54	0.39	0.94	2.00	3.38	4.26	1.19	6.88	0.69	3.07
Hemoglobin subunit beta	P68871	1.03	0.52	1.366	0.34	4.15	1.48	1.04	0.71	2.041	0.78	12.84	3.48	0.58	1.47	1.00	1.17	0.25	0.40	0.81	1.86	2.91	3.41	1.22	5.69	0.60	2.62
Hemoglobin subunit delta	P02042				0.34	4.73	2.54				0.79	14.77	7.78	0.58			1.18			0.88		2.93	3.45		6.06	0.55	3.25
Hemoglobin subunit gamma-1	P69891	0.95				4.46	2.70	0.95				13.00	6.98							ND							ND
Hemopexin	P02790	0.74	0.63	0.985	0.40	1.14	0.78	0.49	0.50	0.551	0.16	6.37	1.62	0.69	0.73	0.61	1.48	0.96	0.66	0.85	3.30	2.78	3.71	1.15	1.66	0.91	2.25
Heterogeneous nuclear ribonucleoprotein D	Q14103		0.59		0.30		0.45		0.64		0.27		0.45		0.96	1.32	2.06	0.66	1.01	1.20	4.71			2.71	1.13	2.43	2.74
HHIP-like protein 2	Q6UWX4	1.83	1.42			2.34	1.86	0.85	1.15			3.20	1.73							ND							ND
Histone H1,0	P07305				0.48		0.48				0.55		0.55		1.11	1.48				1.29	2.72						2.72
Histone H1,2	P16403	0.68	0.56	0.657	0.28	0.67	0.57	0.66	1.01	0.972	0.26	0.46	0.67	0.73	0.43	0.55	0.87	0.37	0.30	0.54	2.90	2.28	2.18	0.75	1.07	1.88	1.84
Histone H1,3	P16402				0.23		0.23				0.17		0.17							ND							ND
Histone H1,4	P10412	0.35	0.85	0.858	0.28	0.64	0.60	0.31	1.40	1.155	0.24	0.32	0.69	0.80	0.36	0.46	0.89	0.45	0.36	0.55	2.73	2.07	2.04	0.81	1.19	1.84	1.78
Histone H1,5	P16401				0.91		0.91				1.60		1.60							ND							ND

Protein name	Accesion	AF7	AF6	AF3	AF9	AF2	AF-mean	NP7	NP6	NP3	NP9	NP2	NP-mean	R (A)	R (B)	R (C)	R (D)	R (E)	R (F)	R-mean	T(A)	T (B)	T (C)	T (D)	T (E)	T (F)	T-mean
Histone H2A type 1	P0C0S8	1.15	0.44	0.000	0.64	0.86	0.62	1.16	0.56	1.082	0.71	1.13	0.93	1.15	0.74	0.96	1.70	1.10	0.96	1.10	3.39	2.81	2.49	2.14	1.28	2.73	2.47
Histone H2B type 1-B	P33778	1.12			0.45	0.84	0.80	1.19			0.37	0.60	0.72				1.30			1.30					1.40	1.63	1.51
Histone H2B type 1-D	P58876	1.12			0.45		0.78	1.19			0.37		0.78		0.67	0.93	1.27	0.78	0.67	0.86	2.86				1.43	1.39	1.60	1.82
Histone H2B type 1-K	O60814			0.983			0.98			1.278			1.28					0.77	0.66	0.71					1.42			1.42
Histone H2B type 2-E	Q16778						ND						ND	0.86			1.30			1.08		1.90	2.08		1.40	1.63	1.75
Histone H3,2	Q71DI3						ND						ND				1.56	1.12	0.87	1.19				2.75	1.78	2.13	2.22
Histone H3,3	P84243						ND						ND	1.18	1.26	1.76				1.40	2.57	2.36	2.43				2.46
Histone H3-like	Q6NXT2	1.36	0.96	1.289	0.65		1.07	1.49	1.28	1.612	0.44		1.20							ND							ND
Histone H4	P62805				0.44		0.44				1.27		1.27	1.19	1.19	1.44	2.14	0.60	0.81	1.23	4.07	3.61	2.57	3.36	0.86	1.60	2.68
Histone-lysine N-methyltransferase MLL3	Q8NEZ4		1.10		0.99		1.05		1.10		0.49		0.80							ND							ND
Homeobox protein Hox-D13	P35453						ND						ND							ND							ND
Homeobox-containing protein 1	Q6NT76						ND						ND							ND							ND
Hyaluronan and proteoglycan link protein 1	P10915	0.55	0.93	0.403	0.46	0.33	0.53	0.23	0.41	0.276	0.33	0.39	0.33	1.36	2.16	2.37	1.86	1.14	1.41	1.72	1.71	1.47	1.82	1.90	0.93	0.89	1.45
Hyaluronan and proteoglycan link protein 4	Q86UW8			0.323			0.32			0.172			0.17							ND							ND
Ig alpha-1 chain C region	P01876				0.53	1.50	1.01				0.21	19.93	10.07	0.89			2.31			1.60		4.51	3.91		2.68	3.37	3.62
Ig gamma-1 chain C region	P01857	0.32	0.30	1.831	0.34	1.38	0.83	0.18	0.23	0.480	0.12	18.62	3.93	0.53	0.51	0.37	1.01	0.38	0.30	0.52	3.13	1.05	3.38	0.99	0.83	0.95	1.72
Ig gamma-2 chain C region	P01859	0.65	0.48		0.19	1.63	0.74	0.27	0.36		0.08	18.69	4.85		0.46	0.33	0.43			0.41	1.89				0.63	0.98	1.16
Ig gamma-3 chain C region	P01860		0.31	5.831	0.32	1.51	1.99		0.23	1.196	0.11	22.31	5.96	0.54	0.48	0.37	1.02	0.38	0.32	0.52	3.32	1.10	3.44	0.99	0.87	1.05	1.79
Ig gamma-4 chain C region	P01861					1.75	1.75					21.77	21.77	0.85						0.85		0.68	2.44				1.56
Ig heavy chain V-I region EU	P01742				0.23		0.23				0.00		0.00							ND							ND
Ig heavy chain V-III region WEA	P01763						ND						ND				0.89			0.89					0.71	0.00	0.36
Ig kappa chain C region	P01834	0.54	0.45	1.294	0.43	1.35	0.81	0.36	0.40	0.815	0.62	12.14	2.87	0.53	0.71	0.70	1.03	0.63	0.61	0.70	3.24	1.47	2.95	1.12	0.89	1.28	1.83
Ig kappa chain V-III region SIE	P01620						ND						ND							ND							ND
Ig lambda chain C regions	P01842		0.73	2.030	0.39	1.28	1.11		0.65	1.167	0.22	15.42	4.36	0.70	0.79	0.72	1.45	0.41	0.54	0.77	3.96	1.47	3.31	0.73	1.48	2.00	2.16
Immunoglobulin superfamily containing leuc	O14498						ND						ND	0.99	1.70	2.25	0.80	0.55	0.97	1.21	1.80	1.36	1.25	1.03	0.44	1.02	1.15
Inhibin beta A chain	P08476		4.23		1.26		2.74		9.21		2.69		5.95							ND							ND
Insulin-like growth factor-binding protein 7	Q16270					0.66	0.66					2.06	2.06							ND							ND
Inter-alpha-trypsin inhibitor heavy chain H1	P19827			1.133			1.13			0.000			0.00							ND							ND
Inter-alpha-trypsin inhibitor heavy chain H5	Q6UXX5						ND						ND	2.32	1.45	2.15		0.92	0.76	1.52	4.04	6.27	10.55	1.95			5.70
Isocitrate dehydrogenase [NADP] cytoplasr	O75874						ND						ND	2.92	1.36	2.04	4.08	1.09	1.53	2.17	5.21	5.50	4.80	6.23	1.19	4.06	4.50
Keratin, type II cytoskeletal 1	P04264						ND						ND							ND							ND
Kinesin heavy chain isoform 5A	Q12840						ND						ND							ND							ND
Lactadherin	Q08431	1.14	0.96	0.397	0.91	0.41	0.76	0.47	0.46	0.360	0.19	0.39	0.37	2.01	2.51	3.18	2.26	1.31	2.26	2.25	1.58	2.90	1.91	2.58	0.73	1.25	1.82
Lactotransferrin	P02788				1.65		1.65				3.78		3.78		1.53	0.00				0.76	36.65						36.65
Lambda-crystallin homolog	Q9Y2S2						ND						ND				5.00			5.00					0.73	2.63	1.68
Lamin-A/C	P02545	0.54	0.65	0.295	0.32		0.45	0.31	0.60	0.276	3.88		1.27	0.61	0.69	0.92	1.11	0.68	0.33	0.72	2.93	1.49	1.77	1.06	1.64	1.10	1.66
Leucine-rich alpha-2-glycoprotein	P02750				1.78		1.78				0.00		0.00							ND							ND
Leukocyte cell-derived chemotaxin-2	O14960	2.29			0.91		1.60	1.87			1.00		1.43	1.06	1.74	1.54	2.25	0.78	1.20	1.43	2.85	5.68	3.05	2.71	1.03	3.15	3.08
Leukocyte elastase	P08246	2.31				1.56	1.94	4.27				2.15	3.21							ND							ND
L-lactate dehydrogenase A chain	P00338	1.05	0.78		0.44		0.76	0.57	1.26		0.34		0.72	1.60	1.08	1.24	1.96			1.47	1.97	1.53	1.26		0.97	1.23	1.39
L-lactate dehydrogenase B chain	P07195						ND						ND	0.79	0.46	1.22	4.22			1.67	9.36	3.65	7.44		1.07	2.10	4.72
Lubricin (proteoglycan 4)	Q92954	2.19	4.18	0.839	0.82	1.43	1.89	5.21	8.54	4.269	3.54	1.40	4.59	0.06	0.04	0.05	0.06	0.16	0.12	0.08	0.05	0.09	0.09	0.17	0.09	0.07	0.09
Lumican	P51884	1.65	2.32	1.252	1.55	1.28	1.61	0.71	2.03	1.284	0.93	1.57	1.30	0.12	0.13	0.22	0.07	0.22	0.33	0.18	0.16	0.10	0.13	0.08	0.14	0.12	0.12
Lysozyme C	P61626	2.00	0.95	1.416	0.99	0.66	1.20	1.88	1.48	1.472	1.30	0.72	1.37	1.41	2.39	1.86	11.57	3.16	1.44	3.64	17.48	10.83	8.60	13.70	8.09	6.75	10.91
Malate dehydrogenase, cytoplasmic	P40925						ND						ND		1.01	1.35	2.59	0.62	0.84	1.28	4.29			2.92	0.94	2.84	2.75
Malate dehydrogenase, mitochondrial	P40926				0.46		0.46				0.37		0.37	1.30			1.49			1.40		5.23	5.26		1.58	2.02	3.52
Matrilin-3	O15232			0.106	0.07		0.09			0.085	0.04		0.06	2.74	2.28	2.64	0.58	0.74	2.34	1.89	1.26	1.57	1.36	1.04	0.37	1.93	1.25
Matrix Gla protein	P08493						ND						ND	0.67			1.37	2.03	0.82	1.22		3.06	2.63	1.11	2.20	2.26	2.25
Melanoma-derived growth regulatory protei	Q16674						ND						ND	1.36						1.36		1.54	2.02				1.78
Melanotransferrin	P08582		1.62				1.62		2.66				2.66				2.20			2.20					1.44	2.14	1.79
Microfibril-associated glycoprotein 4	P55083	2.17			1.50		1.83	1.36			0.66		1.01	1.28	0.62	0.85	1.00	0.94	0.99	0.95	2.09	1.86	1.61	1.50	0.79	1.47	1.55
Mimecan	P20774	1.47	1.02	1.578	1.05	1.79	1.38	0.53	0.92	1.098	0.54	1.78	0.97	0.13	0.09	0.12	0.16	0.13	0.06	0.12	0.35	0.18	0.29	0.19	0.13	0.12	0.21
Mitofusin-1	Q8IWA4		5.13				5.13		1.54				1.54							ND							ND
Moesin	P26038		0.75		0.52		0.64		0.73		0.38		0.55	1.14	0.86	1.16	3.09	0.64	0.73	1.27	4.16	3.79	4.48	2.98	1.00	2.61	3.17
Myeloblastin	P24158	5.40					5.40	8.64					8.64							ND							ND
Myocilin	Q99972	0.93				0.25	0.59	0.66				0.80	0.73							ND							ND

Protein name	Accesion	AF7	AF6	AF3	AF9	AF2	AF-mean	NP7	NP6	NP3	NP9	NP2	NP-mean	R (A)	R (B)	R (C)	R (D)	R (E)	R (F)	R-mean	T(A)	T (B)	T (C)	T (D)	T (E)	T (F)	T-mean
Myoglobin	P02144						ND						ND	3.26	1.60	1.63	0.73	2.94	1.10	1.88	3.15	1.17	6.15	0.80	1.58	0.51	2.23
Myosin light polypeptide 6	P60660						ND						ND	1.36	1.06	1.45	1.41			1.32	3.72	2.60	2.62		1.35	1.86	2.43
Myosin-2	Q9UKX2						ND						ND				1.69	4.95	0.81	2.48				1.06	5.86	1.14	2.68
Myosin-7	P12883						ND						ND					5.01	0.88	2.95				1.07			1.07
Nesprin-2	Q8WXH0					1.41	1.41					3.66	3.66							ND							ND
Neuroblast differentiation-associated protei	Q09666	0.72			0.33		0.52	0.31			0.16		0.24	0.94	0.65	1.04	2.48	0.75	0.64	1.08	3.54	2.11	2.35	1.95	2.35	1.99	2.38
Neuron navigator 3	Q8IVL0	1.64	1.98		0.96		1.53	0.43	1.95		0.50		0.96							ND							ND
Nidogen-2	Q14112						ND						ND	1.02			2.29			1.65		6.15	5.49		1.51	4.68	4.45
Nucleoside diphosphate kinase A	P15531						ND						ND	1.59						1.59		4.76	4.93				4.84
Nucleoside diphosphate kinase B	P22392						ND						ND				5.31	1.07	1.33	2.57				4.97	1.60	4.80	3.79
Osteomodulin	Q99983	2.17	1.08			1.61	1.62	0.50	0.83			1.58	0.97		1.31	1.93				1.62	0.55						0.55
Peptidyl-prolyl cis-trans isomerase A	P62937	0.91	0.61		0.31	1.05	0.72	0.82	0.96		0.29	1.37	0.86	0.76	0.66	0.85	2.04	0.81	0.87	1.00	3.50	3.40	3.66	2.56	0.91	2.30	2.72
Peptidyl-prolyl cis-trans isomerase B	P23284		2.05				2.05		2.32				2.32	0.82	1.07	1.06	2.07	0.91	1.15	1.18	3.10	2.87	2.78	2.80	1.15	1.70	2.40
Peptidyl-prolyl cis-trans isomerase C	P45877				0.82		0.82				0.84		0.84							ND							ND
Peroxiredoxin-1	Q06830	0.78	0.34	0.361	0.35		0.46	0.63	0.29	0.000	0.28		0.30	1.56	1.52	2.25	3.76	0.81	1.25	1.86	5.55	4.19	4.50	4.30	1.22	3.42	3.86
Peroxiredoxin-2	P32119	1.09	0.69	0.663	0.30	1.64	0.88	0.94	0.87	0.923	0.34	4.06	1.43	0.82	0.75	0.99	1.83	0.32	0.45	0.86	2.80	2.72	3.05	1.47	1.68	2.26	2.33
Peroxiredoxin-4	Q13162						ND						ND							ND							ND
Peroxiredoxin-5, mitochondrial	P30044						ND						ND							ND							ND
Peroxiredoxin-6	P30041						ND						ND	1.95	1.16	1.65	4.89			2.41	6.00	2.84	2.86		1.17	2.24	3.02
Phosphatidylethanolamine-binding protein	P30086						ND						ND	1.26	1.23	1.81	3.91	0.87	1.12	1.70	5.39	4.65	5.08	4.94	1.44	4.89	4.40
Phosphoglycerate kinase 1	P00558	0.90	0.83		0.49		0.74	0.51	0.78		0.24		0.51	1.22	0.83	1.16	1.48	0.39	0.75	0.97	2.76	1.98	2.07	1.52	0.81	1.78	1.82
Phosphoglycerate mutase 1	P18669						ND						ND				3.92	0.74	1.74	2.13				4.75	1.19	2.84	2.93
Phosphoglycerate mutase 2	P15259	1.25					1.25	0.84					0.84							ND							ND
Phospholipase A2, membrane associated	P14555	1.52	1.39	0.807	1.63	0.38	1.14	1.43	1.17	0.674	1.55	0.09	0.98	0.72	1.19	1.46	1.24	1.98	0.65	1.20	3.07	1.78	1.32	1.37	0.61	1.62	1.63
Pigment epithelium-derived factor	P36955	0.57					0.57	0.30					0.30				1.54			1.54					1.30	1.12	1.21
Plasma protease C1 inhibitor	P05155	2.67	1.63		1.07	1.31	1.67	3.69	3.01		3.22	7.87	4.45					1.82	1.34	1.58				0.57			0.57
Plasma serine protease inhibitor	P05154	1.89	2.52		1.04	1.53	1.74	1.49	5.03		2.24	6.23	3.75							ND							ND
Plasminogen activator inhibitor 1	P05121		2.48		1.77		2.12		2.52		1.91		2.21							ND							ND
Plasminogen	P00747				1.91	1.42	1.67				0.04	15.58	7.81	0.53			1.54			1.03		4.28	4.13		1.55	0.75	2.68
Pleckstrin homology domain-containing fam	Q9Y2H5	1.15	0.72				0.94	1.19	0.82				1.01	0.50	0.88	1.02	0.84	1.17	0.54	0.83	3.12	2.61	1.75	0.93	0.69	3.88	2.16
Pleiotrophin	P21246						ND						ND		1.26	0.96				1.11	1.56						1.56
Plexin domain-containing protein 2	Q6UX71		1.83		2.45		2.14		2.20		4.91		3.55							ND							ND
Polymerase I and trascript release factor	Q6NZI2	0.85			0.35		0.60	0.54			0.20		0.37		0.51	0.66	0.61			0.59	1.90				0.57	0.84	1.10
Probable serine protease HTRA3	P83110				2.34		2.34				1.60		1.60							ND							ND
Procollagen C-endopeptidase enhancer 1	Q15113	2.09				1.03	1.56	0.86				3.45	2.15							ND							ND
Procollagen C-endopeptidase enhancer 2	Q9UKZ9	2.06			1.23	1.03	1.44	1.09			0.70	3.45	1.75					0.74	1.47	1.10				1.45			1.45
Profilin-1	P07737						ND						ND	0.19						0.19		3.93	4.22				4.08
Prolargin	P51888	1.12	0.86	0.706	0.89	0.84	0.88	0.36	0.48	0.449	0.24	0.65	0.43	1.46	1.70	1.85	0.85	0.60	1.13	1.27	1.19	1.02	1.06	0.95	0.35	0.90	0.91
Protein disulfide-isomerase A3	P30101				0.48		0.48				0.50		0.50	0.64	1.65	1.55				1.28	5.21	3.35	2.84				3.80
Protein disulfide-isomerase	P07237	1.58	1.03		0.67	1.04	1.08	1.68	1.75		0.73	1.29	1.36	1.29	1.59	1.79	1.60	1.13	0.93	1.39	3.54	3.16	2.74	1.58	1.11	1.71	2.31
Protein FAM59B	Q75VX8						ND						ND							ND							ND
Protein piccolo	Q9Y6V0						ND						ND					6.96	0.61	3.79				0.83			0.83
Protein S100-A1	P23297					0.75	0.75					1.18	1.18		4.25	6.69	7.04			5.99	9.09				2.53	1.96	4.53
Protein S100-A4	P26447		0.56		0.61		0.58		0.60		0.56		0.58							ND							ND
Protein S100-A6	P06703						ND						ND							ND							ND
Protein S100-A8	P05109		2.94		2.72		2.83		4.66		9.39		7.02							ND							ND
Protein S100-A9	P06702	4.26	2.51	3.304	2.48	7.18	3.95	5.16	5.13	6.247	4.35	5.97	5.37		0.52	0.22				0.37	2.13						2.13
Protein S100-B	P04271		0.51	0.119	0.13	0.30	0.27		0.59	0.317	0.11	0.29	0.33	2.25	1.99	2.88	7.80	0.92	1.25	2.85	6.31	5.26	4.07	3.96	1.59	4.98	4.36
Protein transport protein Sec16B	Q96JE7						ND						ND							ND							ND
Prothrombin	P00734						ND						ND							ND							ND
Putative annexin A2-like protein	A6NMY6						ND						ND					0.96	1.95	1.45				1.87			1.87
Putative elongation factor 1-alpha-like 3	Q5VTE0		0.44				0.44		0.65				0.65	1.58	1.68	2.30	4.25	1.43	2.13	2.23	5.30	4.48	4.23	4.52	1.82	2.32	3.78
Putative endoplasmin-like protein	Q58FF3						ND						ND				2.99			2.99					0.92	2.70	1.81
Putative V-set and immunoglobulin domain-	A6NJS3			1.452			1.45			0.581			0.58							ND							ND
Pyruvate kinase isozymes M1/M2	P14618	0.78	0.63	0.584	0.53	0.77	0.66	0.46	0.66	0.433	0.31	1.27	0.62	1.25	1.23	1.88	3.09	0.87	0.93	1.54	3.61	3.58	3.79	3.03	1.00	2.92	2.99
Quinone oxidoreductase	Q08257						ND						ND							ND							ND

Protein name	Accesion	AF7	AF6	AF3	AF9	AF2	AF-mean	NP7	NP6	NP3	NP9	NP2	NP-mean	R (A)	R (B)	R (C)	R (D)	R (E)	R (F)	R-mean	T(A)	T (B)	T (C)	T (D)	T (E)	T (F)	T-mean
Rab GDP dissociation inhibitor beta	P50395		0.34				0.34		0.11				0.11	1.13	1.85	3.02				2.00	6.00	3.68	3.75				4.48
Ras GTPase-activating-like protein IQGAP1	P46940						ND						ND	2.11						2.11		5.70	5.37				5.53
Ras-like protein family member 11A	Q6T310		7.04				7.04		8.14				8.14							ND							ND
Reticulocalbin-3	Q96D15	1.03			0.38		0.71	0.25			0.21		0.23					1.11	1.69	1.40				0.71			0.71
Retinoic acid receptor responder protein 2	Q99969	1.70	0.64	0.967	1.10		1.10	1.06	0.56	0.772	0.61		0.75		1.68	1.53		1.26	1.16	1.40	1.66			1.96			1.81
Retinol-binding protein 4	P02753	1.80					1.80	2.06					2.06					1.58	3.22	2.40				0.80			0.80
Rho GTPase-activating protein 18-like	Q5TG30						ND						ND				1.82			1.82					2.44	5.87	4.16
Rho GTPase-activating protein 30	Q7Z6I6						ND						ND		1.46	1.70				1.58	1.57						1.57
Ribonuclease 4	P34096	1.64	0.88	1.361	1.39		1.32	1.33	1.18	1.120	1.28		1.23	1.37	2.36	1.55	1.04	1.43	0.57	1.39	1.68	1.83	1.39	0.81	1.39	1.36	1.41
Ribosome-binding protein 1	Q9P2E9						ND						ND							ND							ND
Secernin-1	Q12765						ND						ND				4.00			4.00					0.91	7.08	3.99
Secreted frizzled-related protein 3	Q92765				0.26		0.26				0.35		0.35	1.99	2.21	2.00	1.31	1.36	2.10	1.83	1.63	1.77	1.76	1.53	0.74	1.37	1.47
Selenium-binding protein 1	Q13228						ND						ND	0.93	1.10	1.23				1.09	6.80	6.47	9.31				7.52
Semaphorin-4A	Q9H3S1		4.47				4.47		4.61				4.61							ND							ND
Semaphorin-4C	Q9C0C4					1.79	1.79					3.02	3.02							ND							ND
Serine protease HTRA1	Q92743	2.61	3.55	0.777	1.83	1.90	2.13	1.89	3.01	1.618	0.85	2.26	1.92	0.08	0.17	0.22	0.22	0.25	0.24	0.20	0.14	0.27	0.26	0.20	0.23	0.36	0.24
Serotransferrin	P02787	0.84	0.48	1.566	0.53	1.50	0.98	0.73	0.38	0.772	0.19	11.51	2.71	0.60	0.52	0.63	0.61			0.59	1.90	0.90	3.17		1.04	0.57	1.52
Serum albumin	P02768	0.50	0.35	0.835	0.32	2.09	0.82	0.25	0.23	0.541	0.15	19.94	4.22	0.60	0.36	0.36	0.42	0.53	0.28	0.42	1.43	0.46	0.99	0.43	0.71	0.36	0.73
Serum amyloid P-component	P02743	0.73					0.73	0.40					0.40					1.18	0.52	0.85				0.97			0.97
SPARC	P09486		0.45		0.27		0.36		0.31		0.07		0.19	1.93	3.63	1.75		1.11	0.61	1.81	0.85	0.60	0.54	0.23			0.56
SPARC-related modular calcium-binding pr	Q9H3U7						ND						ND							ND							ND
Spectrin alpha chain, brain	Q13813						ND						ND	0.59						0.59		1.53	3.02				2.27
Stanniocalcin-2	O76061						ND						ND		10.65	8.50				9.57	1.85						1.85
Stromal cell-derived factor 1	P48061	1.69			0.84		1.26	1.18			1.02		1.10		2.03	2.42				2.22	1.48						1.48
Stromelysin-1	P08254	1.63	0.62				1.13	2.08	1.00				1.54							ND							ND
Superoxide dismutase [Cu-Zn]	P00441						ND						ND							ND							ND
Sushi repeat-containing protein SRPX2	O60687	0.49	0.57	0.582	0.38	0.43	0.49	0.25	0.46	0.582	0.13	0.70	0.42	2.13	2.04	3.89	1.57	0.78	2.18	2.10	2.52	1.87	1.94	1.67	0.45	1.41	1.64
Target of Nesh-SH3	Q7Z7G0	2.12	2.46	2.556	1.45	1.45	2.00	2.22	3.57	2.621	1.65	2.70	2.55		0.06	0.06	0.06	0.10	0.04	0.06	0.14			0.10	0.06	0.08	0.10
Tenascin	P24821	0.97	4.14		0.19		1.77	0.50	2.62		0.10		1.07							ND							ND
Tenascin-X	P22105	0.58	0.56	0.362	0.20	0.57	0.45	0.42	0.45	0.320	0.15	0.76	0.42							ND							ND
Tetranectin	P05452	0.36			0.08		0.22	0.18			0.02		0.10	0.32	0.39	0.69	1.65			0.76	3.23	2.04	3.17		1.12	1.89	2.29
Thrombospondin type-1 domain-containing	Q6ZMP0						ND						ND	1.49			25.52			13.50		15.69	67.31		3.67	9.16	23.96
Thrombospondin-1	P07996	1.53	0.66	0.347	0.88	1.19	0.92	0.30	0.25	0.209	0.09	0.87	0.34	0.98	1.04	1.66	1.12	0.47	1.43	1.11	0.92	0.92	1.36	1.26	0.48	0.80	0.96
Thrombospondin-3	P49476	1.55		0.991	1.06	1.12	1.18	0.72		1.028	0.37	1.15	0.82	0.38	0.33	0.45				0.39	0.12	0.09	0.10				0.10
Thrombospondin-4	P35443						ND						ND							ND							ND
Transaldolase	P37837						ND						ND				1.28			1.28					0.48	1.57	1.03
Transforming growth factor-beta-induced pr	Q15582	2.07	1.36	1.100	0.35		1.22	1.42	1.53	1.599	0.24		1.20	0.93	1.13	1.42	1.05			1.13	2.49	1.56	1.80		1.04	0.00	1.38
Transgelin	Q01995						ND						ND	1.25						1.25		10.77	6.64				8.71
Transketolase	P29401						ND						ND				2.61			2.61					1.52	1.75	1.64
Translationally-controlled tumor protein	P13693						ND						ND				3.31			3.31					1.23	2.90	2.06
Transmembrane protein 132D	Q14C87	1.82					1.82	1.26					1.26							ND							ND
Transthyretin	P02766	0.76	0.60		0.39	1.68	0.86	0.45	0.44		0.13	7.06	2.02	0.70	0.47	0.59	0.74	0.37	0.30	0.53	1.83	0.87	1.40	0.47	1.08	0.80	1.07
Triosephosphate isomerase	P60174	1.09	1.03		0.47	0.85	0.86	0.72	0.83		0.26	0.99	0.70	1.37	0.90	1.24	1.08	0.89	0.67	1.03	2.19	1.69	1.44	1.15	0.74	1.43	1.44
Tropomyosin alpha-4 chain	P67936						ND						ND		1.87	1.53		4.02	1.13	2.14	3.16			1.68			2.42
Tropomyosin beta chain	P07951						ND						ND				1.79			1.79					4.36	2.15	3.25
Tryptase beta-1	Q15661						ND						ND		0.83	1.02				0.93	3.68						3.68
Tubulin alpha-1C chain	Q9BQE3						ND						ND				3.93			3.93					1.59	2.79	2.19
Tubulin beta-2B chain	Q9BVA1	1.35			0.30		0.82	0.93			0.41		0.67					0.68	1.05	0.86				3.75			3.75
Tumor necrosis factor receptor superfamily	O00300	3.34	3.98	0.897	1.28		2.38	1.45	3.11	1.290	1.35		1.80							ND							ND
Ubiquitin carboxyl-terminal hydrolase 25	Q9UHP3				0.18		0.18				0.11		0.11							ND							ND
Ubiquitin	P62988						ND						ND				2.22			2.22					2.12	2.23	2.18
UDP-GlcNAc:betaGal beta-1,3-N-acetylgluc	Q8NFL0				1.32		1.32				1.13		1.13							ND							ND
Uncharacterized protein C12orf70	A6NFE2						ND						ND							ND							ND
UTP--glucose-1-phosphate uridylyltransfera	Q16851						ND						ND							ND							ND
Vacuolar protein sorting-associated protein	Q9P253						ND						ND							ND							ND
Vascular endothelial growth factor receptor	P17948		4.65				4.65		4.18				4.18							ND							ND

Versican core protein	**P13611**	**2.29**	**1.80**	**3.101**	**2.17**	**1.97**	2.27	**1.78**	**1.86**	**3.535**	**3.68**	**4.19**	3.01				*0.30*			0.30					*0.24*	*0.37*	0.31
Vimentin	**P08670**	**0.40**	**0.24**	**0.309**	**0.16**	**0.20**	0.26	**0.24**	**0.27**	**0.349**	**0.08**	**0.23**	0.23	**0.92**	**0.73**	**1.13**	**1.78**	**0.60**	**0.54**	0.95	**2.81**	**3.31**	**3.18**	**1.91**	**1.01**	**2.43**	2.44
Vitamin D-binding protein	**P02774**		*0.22*		**0.46**	**1.50**	0.73		*0.00*		*0.11*	**8.90**	3.00							ND							ND
Vitrin	**Q6UXI7**						ND						ND							ND							ND
Vitronectin	**P04004**	**1.12**	**0.71**	**0.509**	**0.37**	**0.73**	0.69	**0.90**	**0.56**	**0.604**	**0.15**	**2.24**	0.89				**0.73**			0.73					**1.54**	**1.29**	1.41
Zinc-alpha-2-glycoprotein	**P25311**					**3.71**	3.71					**7.91**	7.91							ND							ND
Protein name	**Accesion**	**AF7**	**AF6**	**AF3**	**AF9**	**AF2**	**AF-mean**	**NP7**	**NP6**	**NP3**	**NP9**	**NP2**	**NP-mean**	**R (A)**	**R (B)**	**R (C)**	**R (D)**	**R (E)**	**R (F)**	**R-mean**	**T(A)**	**T (B)**	**T (C)**	**T (D)**	**T (E)**	**T (F)**	**T-mean**

Versican core protein	**P13611**	**2.29**	**1.80**	**3.101**	**2.17**	**1.97**	2.27	**1.78**	**1.86**	**3.535**	**3.68**	**4.19**	3.01				*0.30*			0.30					*0.24*	*0.37*	0.31
Vimentin	**P08670**	**0.40**	**0.24**	**0.309**	**0.16**	**0.20**	0.26	**0.24**	**0.27**	**0.349**	**0.08**	**0.23**	0.23	**0.92**	**0.73**	**1.13**	**1.78**	**0.60**	**0.54**	0.95	**2.81**	**3.31**	**3.18**	**1.91**	**1.01**	**2.43**	2.44
Vitamin D-binding protein	**P02774**		*0.22*		**0.46**	**1.50**	0.73		*0.00*		*0.11*	**8.90**	3.00							ND							ND
Vitrin	**Q6UXI7**						ND						ND							ND							ND
Vitronectin	**P04004**	**1.12**	**0.71**	**0.509**	**0.37**	**0.73**	0.69	**0.90**	**0.56**	**0.604**	**0.15**	**2.24**	0.89				**0.73**			0.73					**1.54**	**1.29**	1.41
Zinc-alpha-2-glycoprotein	**P25311**					**3.71**	3.71					**7.91**	7.91							ND							ND
Protein name	**Accesion**	**AF7**	**AF6**	**AF3**	**AF9**	**AF2**	**AF-mean**	**NP7**	**NP6**	**NP3**	**NP9**	**NP2**	**NP-mean**	**R (A)**	**R (B)**	**R (C)**	**R (D)**	**R (E)**	**R (F)**	**R-mean**	**T(A)**	**T (B)**	**T (C)**	**T (D)**	**T (E)**	**T (F)**	**T-mean**

Supplemental table 2

Intracellular proteins	Plasma proteins	insufficient amount of data (<50%)
14-3-3 protein eta	*Alpha-1-acid glycoprotein 1*	*Bone morphogenetic protein 3b*
14-3-3 protein gamma	*Alpha-1B-glycoprotein*	*Cathepsin D*
14-3-3 protein theta	*Alpha-2-HS-glycoprotein*	*Cathepsin G*
14-3-3 protein zeta/delta	*Alpha-2-macroglobulin*	*CD44 antigen*
1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase delta-1	*Antithrombin-III*	*CD9 antigen*
40S ribosomal protein S20	*Beta-2-glycoprotein 1*	*Chordin-like protein 2*
4-trimethylaminobutyraldehyde dehydrogenase	*Ceruloplasmin*	*Collagen alpha-1(XII) chain*
78 kDa glucose-regulated protein	*Coagulation factor XIII A chain*	*Collagen alpha-1(XXI) chain*
Actin, alpha cardiac muscle 1	*Complement C1q subcomponent A*	*Collagen alpha-1(XXIII) chain*
Actin, aortic smooth muscle	*Complement C1s subcomponent*	*Collagen alpha-3(IX) chain*
Actin, cytoplasmic 1	*Complement C3*	*Cysteine-rich protein 2*
Adenomatous polyposis coli protein 2	*Complement C4-A*	*Fin bud initiation factor homolog*
Adenylate kinase isoenzyme 1	*Complement factor B*	*HEAT repeat-containing protein 7A*
Adenylyl cyclase-associated protein 1	*Complement factor D*	*Hemoglobin subunit gamma-1*
Adipocyte enhancer-binding protein 1	*Complement factor H*	*Hyaluronan and proteoglycan link protein 4*
Adseverin	*Complement factor H-related protein 1*	*Inhibin beta A chain*
Alcohol dehydrogenase [NADP+]	*Fibrinogen alpha chain*	*Insulin-like growth factor-binding protein 7*
Alcohol dehydrogenase 1B	*Fibrinogen beta chain*	*Kinesin heavy chain isoform 5A*
Alpha-actinin-1	*Fibrinogen gamma chain*	*Lactotransferrin*
Alpha-crystallin B chain	*Haptoglobin*	*Melanoma-derived growth regulatory protein*
Alpha-enolase	*Haptoglobin-related protein*	*Melanotransferrin*
Annexin A1	*Hemopexin*	*Myeloblastin*
Annexin A2	*Ig alpha-1 chain C region*	*Myocilin*
Annexin A5	*Ig gamma-1 chain C region*	*Pleiotrophin*
Annexin A6	*Ig gamma-2 chain C region*	*Plexin domain-containing protein 2*
Argininosuccinate synthase	*Ig gamma-3 chain C region*	*Probable serine protease HTRA3*
ATP synthase subunite beta, mitochondrial	*Ig gamma-4 chain C region*	*Protein FAM59B*
Bardet-Biedl syndrome 12 protein	*Ig heavy chain V-I region EU*	*Protein S100-A4*
Beta-enolase	*Ig heavy chain V-III region WEA*	*Protein S100-A6*
Calmodulin	*Ig kappa chain C region*	*Protein S100-A8*
Carbohydrate sulfotransferase 3	*Ig kappa chain V-III region SIE*	*Retinol-binding protein 4*
Carbonic anhydrase 1	*Ig lambda chain C regions*	*Putative V-set and Ig-domain-containing-like protein*
Carbonic anhydrase 2	*Leukocyte elastase*	*Semaphorin-4A*
Carbonic anhydrase 3	*Pigment epithelium-derived factor*	*Semaphorin-4C*
Carbonyl reductase [NADPH] 3	*Plasma protease C1 inhibitor*	*Stanniocalcin-2*
Cofilin-1	*Plasma serine protease inhibitor*	*Stromal cell-derived factor 1*

Creatine kinase M-type	*Plasminogen activator inhibitor 1*	*Stromelysin-1*
Cystatin-B	*Plasminogen*	*Thrombospondin-4*
Cystatin-C	*Prothrombin*	*Transmembrane protein 132D*
Destrin	*Serotransferrin*	*Tryptase beta-1*
Dihydropyrimidinase-related protein 2	*Serum albumin*	*Uncharacterized protein C12orf70*
Dihydropyrimidinase-related protein 3	*Serum amyloid P-component*	*Vascular endothelial growth factor receptor 1*
Disheveled-associated activator of morphogenesis 2	*Transthyretin*	
Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 1	*Vitamin D-binding protein*	
EH domain-containing protein 2	*Zinc-alpha-2-glycoprotein*	
Elongation factor Tu GTP-binding domain-containing protein 1		
Endoplasmin		
Fascin		
Fatty acid desaturase 2-like protein		
Fatty acid-binding protein, adipocyte		
F-box only protein 2		
F-box/WD repeat-containing protein 12		
Ferritin heavy chain		
Ferritin light chain		
Filamin-B		
Flavin reductase		
Four and a half LIM domains protein 1		
Fructose-bisphosphate aldolase A		
Gelsolin		
Glutathione peroxidase 3		
Glutathione S-transferase P		
Glyceraldehyde-3-phosphate dehydrogenase		
Glycogen phosphorylase, brain form		
Glycogen phosphorylase, liver form		
Heat shock 70 kDa protein 1		
Heat shock 70 kDa protein 6		
Heat shock cognate 71 kDa protein		
Heat shock protein beta-1		
Heat shock protein HSP 90-alpha		
Hemoglobin subunit alpha		
Hemoglobin subunit beta		
Hemoglobin subunit delta		
Heterogeneous nuclear ribonucleoprotein D0		
Histone H1,0		

Histone H1,2		
Histone H1,3		
Histone H1,4		
Histone H1,5		
Histone H2A type 1		
Histone H2B type 1-B		
Histone H2B type 1-D		
Histone H2B type 1-K		
Histone H2B type 2-E		
Histone H3,2		
Histone H3,3		
Histone H3-like		
Histone H4		
Histone-lysine N-methyltransferase MLL3		
Homeobox protein Hox-D13		
Homeobox-containing protein 1		
Isocitrate dehydrogenase [NADP] cytoplasmic		
Keratin, type II cytoskeletal 1		
Lambda-crystallin homolog		
Lamin-A/C		
Leucine-rich alpha-2-glycoprotein		
Leukocyte cell-derived chemotaxin-2		
L-lactate dehydrogenase A chain		
L-lactate dehydrogenase B chain		
Malate dehydrogenase, cytoplasmic		
Malate dehydrogenase, mitochondrial		
Mitofusin-1		
Moesin		
Myoglobin		
Myosin light polypeptide 6		
Myosin-2		
Myosin-7		
Nesprin-2		
Neuroblast differentiation-associated protein AHNAK		
Neuron navigator 3		
Nucleoside diphosphate kinase A		
Nucleoside diphosphate kinase B		
Peptidyl-prolyl cis-trans isomerase A		

Peptidyl-prolyl cis-trans isomerase B		
Peptidyl-prolyl cis-trans isomerase C		
Peroxiredoxin-1		
Peroxiredoxin-2		
Peroxiredoxin-4		
Peroxiredoxin-5, mitochondrial		
Peroxiredoxin-6		
Phosphatidylethanolamine-binding protein 1		
Phosphoglycerate kinase 1		
Phosphoglycerate mutase 1		
Phosphoglycerate mutase 2		
Polymerase I and trascript release factor		
Profilin-1		
Protein disulfide-isomerase A3		
Protein disulfide-isomerase		
Protein piccolo		
Protein transport protein Sec16B		
Putative annexin A2-like protein		
Putative elongation factor 1-alpha-like 3		
Putative endoplasmin-like protein		
Pyruvate kinase isozymes M1/M2		
Quinone oxidoreductase		
Rab GDP dissociation inhibitor beta		
Ras GTPase-activating-like protein IQGAP1		
Ras-like protein family member 11A		
Reticulocalbin-3		
Rho GTPase-activating protein 18-like		
Rho GTPase-activating protein 30		
Ribonuclease 4		
Ribosome-binding protein 1		
Secernin-1		
Selenium-binding protein 1		
Spectrin alpha chain, brain		
Superoxide dismutase [Cu-Zn]		
Transaldolase		
Transgelin		
Transketolase		
Translationally-controlled tumor protein		

Triosephosphate isomerase		
Tropomyosin alpha-4 chain		
Tropomyosin beta chain		
Tubulin alpha-1C chain		
Tubulin beta-2B chain		
Tubulin beta-8 chain		
Ubiquitin carboxyl-terminal hydrolase 25		
Ubiquitin		
UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 7		
UTP--glucose-1-phosphate uridylyltransferase		
Vacuolar protein sorting-associated protein 18 homolog		
Vimentin		

Table 3a Femoral head vs tibial knee articular cartilage		T-test	
Protein name	**Accesion**	**Fold Change**	**Raw p value**
Hyaluronan and proteoglycan link protein	P10915	2.45	<0.001
Chondroadherin	O15335	2.17	0.002
Lactadherin	Q08431	2.04	0.016
SPARC-related modular calcium-binding protein 2	Q9H3U7	1.97	<0.001
FGF-binding protein 2	Q9BYJ0	1.80	0.034
Decorin	P07585	0.68	0.022
Extracellular superoxide dismutase [Cu-Zn]	P08294	0.65	<0.001
Collagen alpha-3(VI)	P12111	0.59	<0.001
Tenascin-X	P22105	0.58	0.026
Collagen alpha-2(I)	P08123	0.53	0.046
Collagen alpha-1(VI)	P12109	0.53	<0.001
Collagen alpha-2(VI)	P12110	0.52	<0.001
Alpha-1-antitrypsin	P01009	0.50	0.002
Alpha-1-antichymotrypsin	P01011	0.50	0.024
Collagen alpha-1(III)	P02461	0.49	0.008
Target of Nesh-SH3	Q7Z7G0	0.44	0.022
Lumican	P51884	0.32	<0.001
Asporin	Q9BXN1	0.28	0.002
Mimecan	P20774	0.24	<0.001

Table 3b Femoral vs humeral head articular cartilage		T-test	
Protein name	**Accesion**	**Fold Change**	**Raw p value**
Cartilage intermediate layer protein 1	O75339	3.03	0.044
Pleckstrin homology domain-containing family A6	Q9Y2H5	2.75	0.03
Matrilin-3	O15232	2.72	<0.001
Phospholipase A2, membrane associated	P14555	2.61	0.016
Angiopoietin-related protein 2	Q9UKU9	2.50	0.01
SPARC-related modular calcium-binding protein 2	Q9H3U7	2.46	<0.001
Serine protease HTRA1	Q92743	2.04	0.018
Clusterin	P10909	1.96	0.042
Hyaluronan and proteoglycan link protein	P10915	1.81	0.006
Aggrecan core protein	P16112	1.53	0.02
Biglycan	P21810	0.69	0.024
Alpha-1-antitrypsin	P01009	0.50	0.042
Collagen alpha-2(I)	P08123	0.50	0.024
Collagen alpha-3(VI)	P12111	0.50	0.024
Collagen alpha-1(III)	P02461	0.48	0.008
Collagen alpha-1(VI)	P12109	0.47	0.018
Tenascin-X	P22105	0.44	0.032
Apolipoprotein A-I	P02647	0.37	0.012
Mimecan	P20774	0.35	0.01

Table 3c Humeral head vs tibial knee articular cartilage		T-test	
Protein name	**Accesion**	**Fold Change**	**Raw p value**
Collagen alpha-1(II)	P02458	2.35	0.024
Chondroadherin	O15335	2.12	0.004
HHIP-like protein 2	Q6UWX4	1.54	0.032
Biglycan	P21810	1.53	0.048
Fibromodulin	Q06828	1.33	0.022
Decorin	P07585	0.66	0.038
Lumican	P51884	0.51	0.018
Asporin	Q9BXN1	0.44	0.01

Table 3d Tibial knee articular cartilage vs meniscal cartilage			T-test
Protein name	**Accesion**	**Fold change**	**Raw p value**
Pleckstrin homology domain-containing family A6	Q9Y2H5	38.72	0.022
Phospholipase A2, membrane associated	P14555	35.40	0.032
Hyaluronan and proteoglycan link protein	P10915	14.81	0.003
Collagen alpha-1(II)	P02458	11.27	0.006
Aggrecan core protein	P16112	10.42	0.005
Lysozyme C	P61626	5.85	0.042
Angiogenin	P03950	5.63	0.009
FGF-binding protein 2	Q9BYJ0	4.96	0.030
Chondroadherin	O15335	4.92	0.001
Osteoadherin	Q99983	4.64	0.001
C-type lectin domain family 3A	O75596	3.63	0.006
Sushi repeat-containing protein SRPX2	O60687	3.39	0.009
HHIP-like protein 2	Q6UWX4	3.13	0.040
Angiopoietin-related protein 2	Q9UKU9	3.08	0.040
Retinoic acid receptor responder protein 2	Q99969	2.07	0.033
Cartilage intermediate layer protein 2	Q8IUL8	2.01	0.012
Fibromodulin	Q06828	1.56	0.020
Collagen alpha-3(VI)	P12111	0.38	0.035
Procollagen C-endopeptidase enhancer 1	Q15113	0.37	0.040
Target of Nesh-SH3	Q7Z7G0	0.34	0.043
Tenascin-X	P22105	0.29	0.020
Versican	P13611	0.21	0.038
Asporin	Q9BXN1	0.18	0.022
Apolipoprotein D	P05090	**M only**	
SPARC-related modular calcium-binding protein 2	Q9H3U7	**K only**	

Table 3e Femoral head articular cartilage vs annulus fibrosus cartilage		T-test	
Protein name	**Accesion**	**Fold Change**	**Raw p value**
Matrilin-3	O15232	16.59	<0.001
Protein S100-B	P04271	6.00	<0.001
Phospholipase A2, membrane associated	P14555	5.95	0.006
Pleckstrin homology domain-containing family A6	Q9Y2H5	5.85	0.018
Hyaluronan and proteoglycan link protein	P10915	4.27	<0.001
Augurin	Q9H1Z8	2.63	<0.001
Retinoic acid receptor responder protein 2	Q99969	2.44	0.014
Biglycan	P21810	2.35	<0.001
Collagen alpha-1(II)	P02458	2.01	0.012
Fibromodulin	Q06828	1.83	0.002
Aggrecan core protein	P16112	1.50	0.016
Decorin	P07585	0.72	0.03
Extracellular superoxide dismutase [Cu-Zn]	P08294	0.47	<0.001
Alpha-1-antichymotrypsin	P01011	0.44	0.01
Asporin	Q9BXN1	0.42	0.012
Alpha-1-antitrypsin	P01009	0.41	<0.001
Collagen alpha-2(XI)	P13942	0.38	0.048
Coiled-coil domain-containing protein 80	Q76M96	0.35	0.018
Serine protease HTRA1	Q92743	0.35	0.008
Fibronectin	P02751	0.31	0.014
Lubricin (Proteglycan 4)	Q92954	0.27	0.02
Mimecan	P20774	0.26	0.002
Lumican	P51884	0.20	<0.001
Collagen alpha-2(I)	P08123	0.18	<0.001
Protein S100-A9	P06702	0.17	0.006
Glia-derived nexin	P07093	0.17	0.026
Versican	P13611	0.11	<0.001
Target of Nesh-SH3	Q7Z7G0	0.07	0.004
Apolipoprotein D	P05090	**AF only**	
SPARC-related modular calcium-binding protein 2	Q9H3U7	**F only**	

Table 3f Femoral head articular cartilage vs nucleus pulposus cartilage		T-test	
Protein name	**Accesion**	**Fold Change**	**Raw p value**
Matrilin-3	O15232	23.36	<0.001
Tetranectin	P05452	11.87	<0.001
Hyaluronan and proteoglycan link protein	P10915	6.97	<0.001
Phospholipase A2, membrane associated	P14555	6.94	0.004
Pleckstrin homology domain-containing family A6	Q9Y2H5	5.44	0.048
Protein S100-B	P04271	4.86	0.008
Fibromodulin	Q06828	4.57	<0.001
Biglycan	P21810	3.74	<0.001
Retinoic acid receptor responder protein 2	Q99969	3.58	0.012
Thrombospondin-1	P07996	2.89	0.03
Collagen alpha-1(II)	P02458	2.49	<0.001
Basement membrane-specific HS proteoglycan (Perlecan)	P98160	2.48	0.036
Lactadherin	Q08431	2.48	0.02
PRELP	P51888	2.32	<0.001
Aggrecan core protein	P16112	1.78	<0.001
FGF-binding protein 2	Q9BYJ0	1.73	0.026
Decorin	P07585	1.54	0.038
Extracellular superoxide dismutase [Cu-Zn]	P08294	0.48	0.024
Collagen alpha-2(I)	P08123	0.44	0.016
Asporin	Q9BXN1	0.39	0.006
Serine protease HTRA1	Q92743	0.38	0.008
Mimecan	P20774	0.37	0.018
TNF receptor superfamily member 11B	O00300	0.36	<0.001
Fibronectin	P02751	0.31	0.016
Coiled-coil domain-containing protein 80	Q76M96	0.29	0.036
Lumican	P51884	0.25	<0.001
Alpha-1-antitrypsin	P01009	0.18	0.004
Alpha-1-antichymotrypsin	P01011	0.14	0.012
Glia-derived nexin	P07093	0.13	<0.001
Protein S100-A9	P06702	0.13	<0.001
Lubricin (Proteglycan 4)	Q92954	0.11	<0.001
Versican	P13611	0.08	<0.001
Target of Nesh-SH3	Q7Z7G0	0.06	0.002
Apolipoprotein D	P05090	**NP only**	
SPARC-related modular calcium-binding protein 2	Q9H3U7	**F only**	

Table 3g Femoral head articular cartilage vs rib cartilage		T-test	
Protein name	**Accesion**	**Fold Change**	**Raw p value**
Pleckstrin homology domain-containing family A6	Q9Y2H5	6.63	<0.001
Cartilage intermediate layer protein 2	Q8IUL8	6.55	<0.001
Cartilage oligomeric matrix protein	P49747	6.48	<0.001
Lubricin (Proteglycan 4)	Q92954	6.22	<0.001
Phospholipase A2, membrane associated	P14555	5.65	<0.001
Serine protease HTRA1	Q92743	3.77	<0.001
Collagen alpha-1(III)	P02461	3.36	<0.001
Mimecan	P20774	3.17	<0.001
Clusterin	P10909	2.52	0.002
Target of Nesh-SH3	Q7Z7G0	2.27	0.008
Decorin	P07585	2.12	<0.001
Retinoic acid receptor responder protein 2	Q99969	1.91	0.02
Lumican	P51884	1.78	0.046
Hyaluronan and proteoglycan link protein	P10915	1.33	0.046
Chondroadherin	O15335	0.65	0.002
Collagen alpha-2(I)	P08123	0.61	0.012
Lactadherin	Q08431	0.41	0.008
Extracellular superoxide dismutase [Cu-Zn]	P08294	0.37	0.02
Sushi repeat-containing protein SRPX2	O60687	0.33	0.012
Lysozyme C	P61626	0.32	0.014
Alpha-1-antitrypsin	P01009	0.29	0.006
Coiled-coil domain-containing protein 80	Q76M96	0.29	0.028
SPARC	P09486	0.13	0.02
Chondromodulin-1	O75829	0.12	<0.001
Cartilage matrix protein	P21941	0.02	0.008
Epiphycan	Q99645	**R only**	
C-X-C motif chemokine 14	O95715	**R only**	
Immunoglobulin superfamily containing LRR protein	O14498	**R only**	
Microfibril-associated glycoprotein 4	P55083	**R only**	
Secreted frizzled-related protein 3	Q92765	**R only**	
SPARC-related modular calcium-binding protein 2	Q9H3U7	**F only**	
Tenascin-X	P22105	**F only**	

Table 3h Femoral head articular cartilage vs tracheal cartilage		T-test	
Protein name	**Accesion**	**Fold Change**	**Raw p value**
Cartilage oligomeric matrix protein	P49747	22.24	<0.001
Thrombospondin-3	P49476	9.81	0.022
Cartilage intermediate layer protein 1	O75339	9.29	<0.001
Cartilage intermediate layer protein 2	Q8IUL8	7.15	0.008
Decorin	P07585	5.58	<0.001
Lubricin (Proteglycan 4)	Q92954	5.44	<0.001
Fibronectin	P02751	4.44	0.004
Phospholipase A2, membrane associated	P14555	4.19	0.004
Clusterin	P10909	3.26	0.01
Collagen alpha-1(III)	P02461	3.25	<0.001
Serine protease HTRA1	Q92743	3.04	0.01
Augurin	Q9H1Z8	2.95	0.006
FGF-binding protein 2	Q9BYJ0	2.77	0.01
Lumican	P51884	2.66	<0.001
Pleckstrin homology domain-containing family A6	Q9Y2H5	2.53	0.026
Aggrecan core protein	P16112	1.61	0.006
Hyaluronan and proteoglycan link protein	P10915	1.57	<0.001
Alpha-1-antitrypsin	P01009	0.61	0.04
Basement membrane-specific HS proteoglycan (Perlecan)	P98160	0.56	0.014
Collagen alpha-2(VI)	P12110	0.51	0.032
Lactadherin	Q08431	0.51	0.038
Collagen alpha-1(VI)	P12109	0.50	0.032
Leukocyte cell-derived chemotaxin-2	O14960	0.46	0.026
Collagen alpha-3(VI)	P12111	0.46	0.002
Sushi repeat-containing protein SRPX2	O60687	0.43	0.012
Protein S100-B	P04271	0.36	0.002
Collagen alpha-2(I)	P08123	0.35	0.002
Galectin-1	P09382	0.35	<0.001
TGF-beta-induced protein ig-h3	Q15582	0.33	0.002
Lysozyme C	P61626	0.11	<0.001
Chondromodulin-1	O75829	0.10	0.004
Cartilage matrix protein	P21941	0.02	0.002
Epiphycan	Q99645	**T only**	
C-X-C motif chemokine 14	O95715	**T only**	
Immunoglobulin superfamily containing LRR protein	O14498	**T only**	
Microfibril-associated glycoprotein 4	P55083	**T only**	
Secreted frizzled-related protein 3	Q92765	**T only**	
Tenascin-X	P22105	**F only**	
SPARC-related modular calcium-binding protein 2	Q9H3U7	**F only**	

Table 3i Annulus fibrosus vs nucleus pulposus cartilage		T-test	
Protein name	**Accesion**	**Fold Change**	**Raw p value**
Collagen alpha-1(V)	P20908	2.74	0.034
Thrombospondin-1	P07996	2.68	0.03
Fibromodulin	Q06828	2.50	0.006
Collagen alpha-2(I)	P08123	2.40	<0.001
Decorin	P07585	2.15	0.008
PRELP	P51888	2.03	0.004
Cartilage intermediate layer protein 1	O75339	1.70	0.022
Hyaluronan and proteoglycan link protein	P10915	1.63	0.046
Biglycan	P21810	1.59	0.02
C-type lectin domain family 3A	O75596	1.38	0.032
Alpha-1-antitrypsin	P01009	0.44	<0.001
Apolipoprotein D	P05090	0.32	0.05

Table 3j Annulus fibrosus vs meniscal cartilage		T-test	
Protein name	**Accesion**	**Fold-Change**	**Raw p value**
Coiled-coil domain-containing protein 80	Q76M96	14.56	0.015
Lysozyme C	P61626	10.69	0.010
Fibronectin	P02751	10.08	0.012
Chondroadherin	O15335	9.62	0.001
Aggrecan core protein	P16112	9.44	0.001
Angiogenin	P03950	9.05	0.008
Hyaluronan and proteoglycan link protein	P10915	8.49	0.011
Phospholipase A2, membrane associated	P14555	8.16	0.014
Collagen alpha-1(II)	P02458	6.84	0.020
FGF-binding protein 2	Q9BYJ0	6.58	0.000
Protein S100-A9	P06702	6.46	0.019
Glia-derived nexin	P07093	5.94	0.030
C-type lectin domain family 3A	O75596	5.35	0.000
Serine protease HTRA1	Q92743	5.02	0.023
HHIP-like protein 2	Q6UWX4	4.30	0.025
Cartilage intermediate layer protein 1	O75339	3.08	0.001
Target of Nesh-SH3	Q7Z7G0	2.06	0.015
Sushi repeat-containing protein SRPX2	O60687	1.81	0.015
Collagen alpha-2(VI)	P12110	0.33	0.041
Collagen alpha-3(VI)	P12111	0.31	0.026
Collagen alpha-1(VI)	P12109	0.29	0.042
Apolipoprotein A-I	P02647	0.23	0.033
Vitronectin	P04004	0.17	0.040
Tenascin-X	P22105	0.16	0.011
Asporin	Q9BXN1	0.12	0.018

Table 3k Rib vs tracheal cartilage		T-test	
Protein name	**Accesion**	**Fold Change**	**Raw p value**
Fibronectin	P02751	5.94	0.018
Cartilage intermediate layer protein 1	O75339	4.44	0.018
Augurin	Q9H1Z8	3.75	0.042
Cartilage oligomeric matrix protein	P49747	3.43	0.008
SPARC	P09486	3.25	0.034
Decorin	P07585	2.64	0.018
Extracellular superoxide dismutase [Cu-Zn]	P08294	2.38	0.032
Microfibril-associated glycoprotein 4	P55083	0.61	0.014
Collagen alpha-2(I)	P08123	0.58	0.012
Galectin-1	P09382	0.58	0.024
Mimecan	P20774	0.55	0.022
Collagen alpha-2(VI)	P12110	0.54	0.038
Collagen alpha-3(VI)	P12111	0.52	0.022
Leukocyte cell-derived chemotaxin-2	O14960	0.46	0.018
Pleckstrin homology domain-containing family A6	Q9Y2H5	0.38	0.032
Lysozyme C	P61626	0.33	0.01
Tetranectin	P05452	0.33	0.032
Hemoglobin subunit beta	P68871	0.31	0.016
Hemoglobin subunit alpha	P69905	0.31	0.036
Inter-trypsin inhibitor heavy chain H5-like protein	Q6UXX5	0.27	0.034