

Supplemental Table S3 - ECM-specific LC-MS/MS Results			Peptide Spectral Matches (PSM)												Average Peptide Spectral Matches (PSM)													
Identified Proteins	Gene	Accession Number	Molecular Weight	Peptide Spectral Matches (PSM)												Average Peptide Spectral Matches (PSM)												
				Normal Swk			Normal 20wk			KTC 5 wk			KTC 20wk			Normal PSM (n = 3)	Normal (20wk) PSM (n = 3)	KTC PSM (n = 3)	KTC PSM (n = 3)	Change (Normal 20wk / Normal Swk)	Fold Change (KTC 20wk / Normal Swk)	Fold Change (KTC 5wk / Normal Swk)	Fold Change (KTC 20wk / Normal Swk)	p value (Normal 20wk / Normal Swk)	p value (KTC 20wk / Normal Swk)	p value (KTC 5wk / Normal Swk)		
Adipocyte enhancer-binding protein 1	Aebp1	AEBP1_MOUSE	128 kDa	0	0	0	0	0	0	0	6	7	3	5	5	1	0.00	0.00	5.33	3.67	0.69	KTC	KTC	0.423	0.406	0.047	0.111	
Adiponectin	Adipo	ADIPO_MOUSE	273 kDa	0	0	0	0	0	0	0	0	0	0	0	2	0.00	0.00	0.33	0.37	Swk	0.01	2.02	KTC	KTC	0.996	1.000	0.423	
Agmatin	Agm	AGRN_MOUSE	208 kDa	12	6	10	9	7	7	37	31	33	28	37	18	9.33	7.67	93.7	27.67	0.82	0.82	3.61	3.61	0.452	0.301	0.001	0.068	
Asn	Asn	ASPN_MOUSE	43 kDa	9	8	7	9	4	5	24	28	26	29	55	54	8.00	6.00	26.00	46.00	0.78	1.77	3.25	7.67	0.321	0.141	0.001	0.039	
Basement membrane-specific heparan sulfate proteoglycan	Hspg2	HSPG2_MOUSE	398 kDa	238	197	216	247	232	215	299	308	250	196	219	143	211.7	231.33	272.33	196.00	1.07	0.68	1.25	0.80	0.397	0.078	0.171	0.003	
Blycan	Blycan	BLYCAN_MOUSE	42 kDa	22	10	24	19	17	37	228	218	222	211	244	219	15.67	20.00	22.67	22.47	1.29	1.01	1.17	13.93	3.96	0.539	0.662	0.000	0.000
BMP-binding endothelial regulator protein	Bmper	BMPER_MOUSE	76 kDa	0	0	0	0	0	0	0	3	2	2	0	0	0.00	0.00	2.33	0.00	KTC	Swk	KTC	0.000	0.000	0.020	0.020		
Bone marrow proteoglycan	Prp2	PRG2_MOUSE	24 kDa	1	0	1	2	2	2	23	12	10	31	10	11	0.67	2.00	15.00	17.33	3.00	1.16	22.90	8.67	0.057	0.789	0.070	0.154	
Cartilage intermediate layer protein 1	Cilp	CILP1_MOUSE	132 kDa	0	0	0	0	0	0	0	3	5	5	5	0	0.00	0.00	4.33	1.67	0.38	KTC	KTC	0.000	0.000	0.000	0.000		
Collagen alpha-1(I) chain	Col1a1	COL1A1_MOUSE	138 kDa	528	387	583	519	602	755	1650	1689	1675	1810	1700	1894	502.67	625.33	1671.33	1804.33	1.24	1.08	3.32	2.89	0.241	0.138	0.002	0.000	
Collagen alpha-1(II) chain	Col2a1	COL2A1_MOUSE	142 kDa	0	0	0	0	0	0	4	4	3	2	2	3	0.00	0.33	3.67	2.33	0.64	KTC	KTC	7.00	0.423	0.047	0.008	0.013	
Collagen alpha-1(III) chain	Col3a1	COL3A1_MOUSE	139 kDa	430	359	467	468	557	595	1091	1059	1074	895	1000	1162	418.67	540.00	1074.67	1010.67	1.29	0.94	2.57	1.87	0.071	0.287	0.002	0.008	
Collagen alpha-1(V) chain	Col1a5	COL1A5_MOUSE	161 kDa	69	68	65	65	60	73	84	92	91	61	59	58	66.67	66.00	89.00	58.67	0.99	0.96	1.34	0.89	0.880	0.001	0.005	0.183	
Collagen alpha-1(VI) chain	Col1a6	COL1A6_MOUSE	184 kDa	46	41	57	53	52	67	155	150	152	144	164	191	48.00	57.33	132.33	166.33	1.19	1.09	3.17	2.90	0.240	0.412	0.001	0.009	
Collagen alpha-1(VII) chain	Col1a7	COL1A7_MOUSE	108 kDa	152	197	128	97	104	90	253	261	281	212	287	263	119.00	67.00	256.33	254.00	0.82	0.98	2.17	2.62	0.176	0.863	0.004	0.018	
Collagen alpha-1(VIII) chain	Col1a8	COL1A8_MOUSE	295 kDa	2	2	4	5	6	3	4	11	45	26	20	2	0.00	5.00	6.00	30.33	2.50	3.06	3.00	6.07	0.036	0.072	0.293	0.077	
Collagen alpha-1(VIII) chain	Col1a8	COL1A8_MOUSE	74 kDa	0	0	0	0	0	0	8	7	9	15	9	5	0.00	0.00	8.00	9.67	1.21	KTC	KTC	0.000	0.627	0.006	0.080		
Collagen alpha-1(X) chain	Col10a1	COL10A1_MOUSE	87 kDa	0	0	0	0	0	0	10	4	5	14	17	10	0.00	0.33	3.33	13.67	20wK	2.16	KTC	41.00	0.423	0.058	0.076	0.008	
Collagen alpha-1(XI) chain	Col11a1	COL11A1_MOUSE	181 kDa	0	0	0	0	0	0	0	2	0	6	1	2	0.33	0.00	0.67	3.00	Swk	4.50	2.00	KTC	0.423	0.294	0.086	0.181	
Collagen alpha-1(XII) chain	Col12a1	COL12A1_MOUSE	340 kDa	0	0	0	0	0	0	391	286	442	396	336	86	0.00	0.33	370.00	272.67	0.73	KTC	818.00	0.423	0.414	0.015	0.103		
Collagen alpha-1(XIII) chain	Col13a1	COL13A1_MOUSE	193 kDa	31	6	31	6	6	25	333	348	369	255	258	349	22.67	12.33	350.00	287.33	0.54	0.82	15.44	23.30	0.383	0.170	0.000	0.019	
Collagen alpha-1(XIV) chain	Col14a1	COL14A1_MOUSE	246 kDa	38	1	3	1	24	36	24	106	44	56	38	36	26	42.00	37.67	59.00	33.33	0.90	0.67	1.19	0.80	0.353	0.038	0.134	0.463
Collagen alpha-1(XV) chain	Col15a1	COL15A1_MOUSE	156 kDa	0	0	1	1	1	0	4	2	4	17	13	10	0.33	0.67	3.33	13.33	2.00	4.00	10.00	20.00	0.519	0.029	0.029	0.022	
Collagen alpha-1(XVII) chain	Col17a1	COL17A1_MOUSE	182 kDa	1	3	3	3	3	4	32	39	49	23	25	25	2.33	4.00	40.00	24.33	1.71	0.81	17.14	6.08	0.133	0.084	0.019	0.000	
Collagen alpha-1(XVIII) chain	Col18a1	COL18A1_MOUSE	119 kDa	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	KTC	Swk	KTC	0.000	0.423	0.000	0.000		
Collagen alpha-2(I) chain	Col2a2	COL2A2_MOUSE	130 kDa	371	249	365	351	394	502	1150	1123	1110	1204	1204	1350	329.33	415.67	1125.67	1254.67	1.26	1.11	3.42	3.02	0.226	0.165	0.901	0.000	
Collagen alpha-2(II) chain	Col2a3	COL2A3_MOUSE	167 kDa	70	68	78	83	93	84	114	128	115	85	85	82	71.00	86.67	119.00	87.33	1.22	0.73	1.68	1.01	0.020	0.006	0.003	0.902	
Collagen alpha-2(III) chain	Col2a4	COL2A4_MOUSE	145 kDa	55	36	62	73	82	63	152	166	158	195	214	198	51.00	82.67	156.67	202.33	1.62	1.28	3.11	2.45	0.036	0.006	0.001	0.000	
Collagen alpha-2(V) chain	Col2a5	COL2A5_MOUSE	67 kDa	64	67	90	75	74	67	197	198	210	154	222	214	67.00	82.67	133.67	196.67	0.90	1.01	4.02	2.73	0.423	0.126	0.000	0.000	
Collagen alpha-2(VII) chain	Col2a7	COL2A7_MOUSE	87 kDa	0	0	0	0	0	0	1	1	1	7	5	2	0.00	0.00	4.67	0.00	0.67	0.00	4.67	KTC	KTC	0.128	0.085		
Collagen alpha-5(VI) chain	Col5a6	COL5A6_MOUSE	290 kDa	7	4	16	2	3	9	74	71	65	16	65	43	9.00	4.67	70.00	41.33	0.52	0.59	7.78	8.88	0.374	0.177	0.000	0.119	
Collagen alpha-5(X) chain	Col5a9	COL5A9_MOUSE	63 kDa	128	126	127	24	36	24	106	126	115	85	85	82	71.00	86.67	119.00	87.33	1.22	0.73	1.68	1.01	0.020	0.006	0.003	0.902	
Cysteine-rich with EGF-like domain protein 2	Cwpe2	CWPE2_MOUSE	388 kDa	21	17	24	21	25	21	9	5	8	0	3	2	0.67	22.33	7.33	2.00	1.08	0.27	0.35	0.00	0.535	0.028	0.000	0.000	
Decorin	Dcn	DCN_MOUSE	407 kDa	37	20	21	29	33	29	114	126	108	99	181	198	26.00	30.33	116.00	159.33	1.17	1.37	4.46	5.26	0.517	0.291	0.000	0.052	
Deleted in malignant brain tumors 1 protein	Dmbt1	DMBT1_MOUSE	422 kDa	148	132	171	141	134	105	211	178	254	290	311	220	156.33	129.67	214.33	273.67	0.84	1.29	2.19	2.09	0.119	0.202	0.000	0.008	
Desmoplakin	Dsp	DSPL_MOUSE	340 kDa	20	10	19	21	15	17	41	61	89	50	62	56	16.33	17.67	53.33	56.00	1.08	1.05	3.27	3.17	0.737	0.732	0.013	0.102	
EGF-containing fibulin-like extracellular matrix protein 1	Efp1	EFLN3_MOUSE	95 kDa	0	0	0	0	0	0	2	2	1	7	6	6	0.00	0.00	2.00	9.67	0.88	KTC	KTC	0.000	0.423	0.172	0.119		
EGF-containing fibulin-like extracellular matrix protein 2	Efp2	EFLN4_MOUSE	49 kDa	0	0	0	0	0	0	4	2	2	3	3	1	0.00	0.00	2.67	2.33	0.43	KTC	KTC	0.000	0.742	0.057	0.073		
EGF-containing fibulin-like extracellular matrix protein 3	Efp3	EFLN5_MOUSE	55 kDa	1	0	1	0	0	4	6	10	4	5	2	1	0.00	0.67	1.33	6.67	2.00	0.60	10.00	2.00	0.671	0.144	0.072	0.496	
EMILIN-1	Emiln1	EMILIN1_MOUSE	108 kDa	4	4	6	4	2	7	82	75	84	87	60	58	4.67	4.33	80.33	68.33	0.93	0.85	17.21	15.77	0.849	0.327	0.001	0.019	
EMILIN-2	Emiln2	EMILIN2_MOUSE	117 kDa	0	0	0	0	0	0	4	4	10	1	1	0	0.00	0.00	6.00	0.67	0.11	KTC	KTC	0.000	0.113	0.095	0.184		
Extracellular matrix protein 1	Ecm1	ECM1_MOUSE	63 kDa	0	0	0	0	0	0	1	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	1.00	KTC	KTC	0.000	0.000	0.000	0.000
Fiblin-2	Fbln2	FBLN2_MOUSE	312 kDa	87	55	81	55	153	153	207	203	248	229	288	169	74.33	120.33	219.33	228.67	1.62	1.04	2.95	1.90	0.292	0.820	0.002	0.084	
Fibronectin alpha chain	Fbn1	FN1_MOUSE	314 kDa	0	0	0	0	0	0	14	11	19	37	31	17	0.67	0.00	14.67	25.00	0.20	1.70	22.00	KTC	KTC	0.184	0.377	0.026	0.112
Fibronectin beta chain	Fbn2	FN2_MOUSE	87 kDa	55	44	36	27	44	189	207	208	208	54	62	47	33.33	31.67	117.67	167.00	0.76	0.36	4.46	1.87	0.149	0.002	0.000	0.008	
Fibronectin gamma chain	Fbn3	FN3_MOUSE	55 kDa	65	60	66	38	39	46	237	301	304	87	73	122	70.33	41.00	230.67	94.00	0.58	0.33	3.69	2.29	0.013	0.708	0.41	0.064	
Fibronectin gamma chain	Fbn3	FN3_MOUSE	49 kDa	78	77	62	60	52	54	211	250	256	79	92	101	75.67	55.33	239.00	90.67	0.73	0.38	3.16	1.64	0.003	0.003	0.007	0.241	
Fibronectin	Fbn1	FN1_MOUSE	49 kDa	0	2	0	0	0	0	0	1	0	2	2	9	0.67	0.00	3.33	4.33	Swk	13.00	0.90	KTC	0.423	0.227	0.686	0.204	
Fibronectin	Fbn2	FN2_MOUSE	72 kDa	1	0	1	0	0	0	6	10	4	5	2	1	0.												