
Supplementary Information

**Proteomic Identification of Plasma Components in *Tachypleus tridentatus*
and Their Effects on the Longitudinal Bone Growth Rate in Rats**

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This file includes Supplementary Figure S1, Table S1 and Table S2.

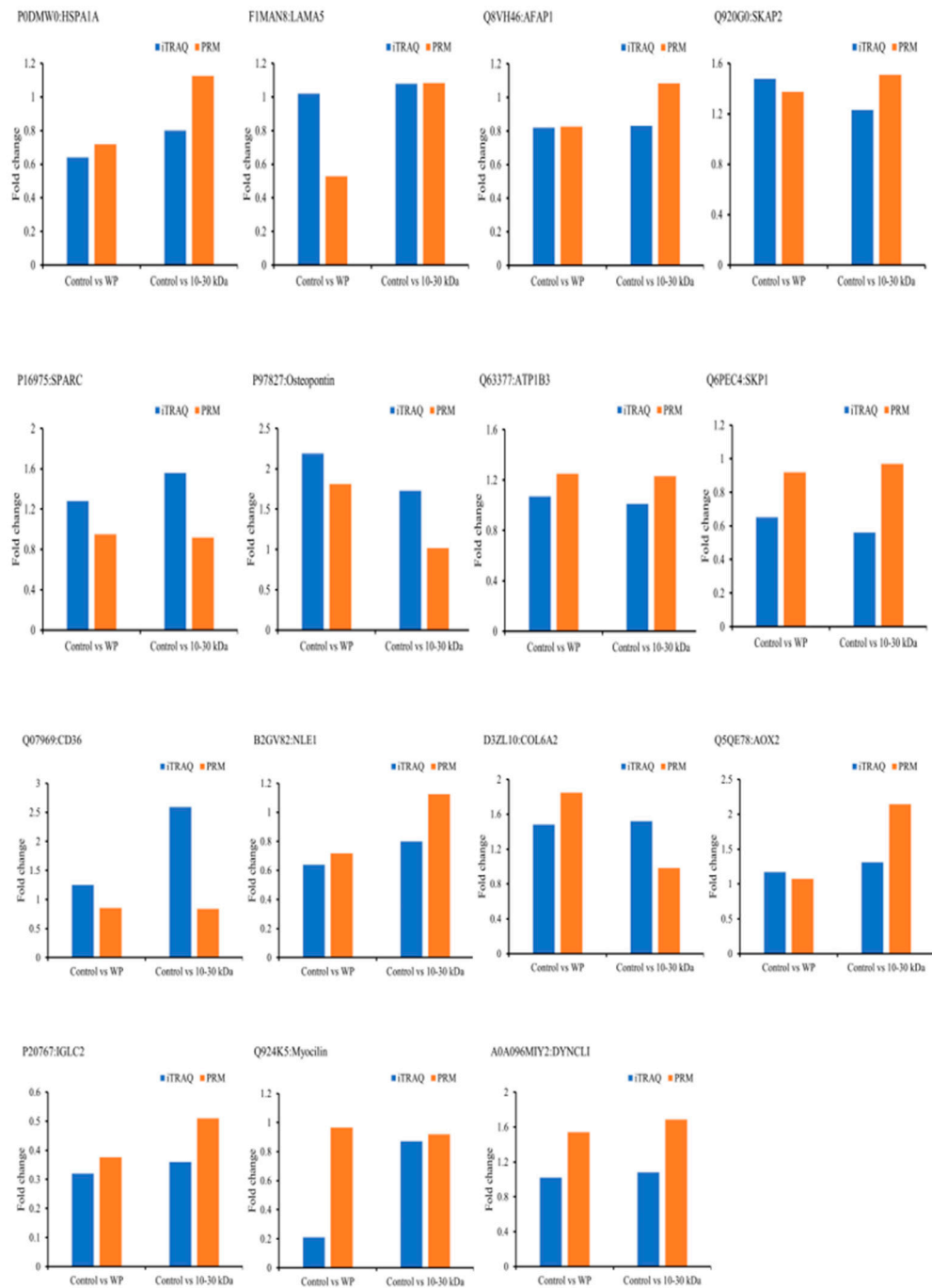


Figure S1. 15 candidate proteins related to long bone growth were screened for PRM analysis. The 15 candidates include HSPA1A, LAMA5, AFAP1, SKAP2, SPARC, Osteopontin, ATP1B3, SKP1, CD36, NLE1, COL6A2, AOX2, IGLC2, Myocilin and DYNCL1.

Table S2. Significant difference protein in control-VS-whole plasma samples

Protein Number	Protein Description	Average Ratio	P value
tr A0A1W2Q6L0 A0A1W2Q6L0_RAT	Mediator complex subunit 14	1.51	0.01553
tr D3ZZC1 D3ZZC1_RAT	RCG43947	1.51	0.009149
tr Q9R1X8 Q9R1X8_RAT	PKC lambda protein	1.51	0.04923
tr D3ZDP2 D3ZDP2_RAT	Mitochondrial ribosomal protein L58	1.51	0.006154
sp P24594 IBP5_RAT	Insulin-like growth factor-binding protein 5	1.51	0.02528
sp P59722 EGLN1_RAT	Egl nine homolog 1	1.51	0.0259
tr B2RZD4 B2RZD4_RAT	60S ribosomal protein L34	1.51	0.04743
sp P09650 MCPT1_RAT	Mast cell protease 1	1.52	0.01335
sp P69478 CHSTB_RAT	Carbohydrate sulfotransferase 11	1.52	0.02526
tr D4A9I7 D4A9I7_RAT	Leucine-rich repeat-containing 3B	1.52	0.03867
sp Q9Z0W5 PACN1_RAT	Protein kinase C and casein kinase substrate in neurons protein 1	1.52	0.0002775
tr B5DFK8 B5DFK8_RAT	Pdxcl protein	1.52	0.003978
sp P02680 FIBG_RAT	Fibrinogen gamma chain	1.52	0.02739
tr D3ZQQ2 D3ZQQ2_RAT	WIZ zinc finger	1.53	0.01944
tr A0A0G2JYL4 A0A0G2JYL4_RAT	Prolyl 4-hydroxylase subunit alpha 2	1.53	0.01589
tr Q2I6B0 Q2I6B0_RAT	V-type proton ATPase subunit a	1.53	0.01975
tr A0A0H2UI04 A0A0H2UI04_RAT	Probable inactive glycosyltransferase 25 family member 3	1.53	0.01809
tr D3ZRM3 D3ZRM3_RAT	Hexosyltransferase	1.53	0.01754
sp Q6AYP7 5NT3B_RAT	7-methylguanosine phosphate-specific 5'-nucleotidase	1.53	0.04684
sp Q8VH46 AFAP1_RAT	Actin filament-associated protein 1	1.53	0.009302
sp Q5PQL5 PTSS1_RAT	Phosphatidylserine synthase 1	1.53	0.04091
sp Q5FVL0 VA0D2_RAT	V-type proton ATPase subunit d 2	1.53	0.002971
sp O88280 SLIT3_RAT	Slit homolog 3 protein GN=Slit3	1.53	0.02147
tr Q5RJR9 Q5RJR9_RAT	Serine (Or cysteine) proteinase inhibitor, clade H, member 1	1.53	0.0009304
tr O70509 O70509_RAT	CD44 antigen	1.54	0.002804
tr A0A0G2JXC1 A0A0G2JXC1_RAT	Protein ERGIC-53	1.54	0.0005437
sp P61751 ARF4_RAT	ADP-ribosylation factor 4	1.54	0.002999
tr A0A0G2K7L2 A0A0G2K7L2_RAT	Immunoglobulin superfamily, member 3	1.55	0.003512
sp Q9QYU2 EFTS_RAT	Elongation factor Ts, mitochondrial	1.55	0.00004569
tr G3V803 G3V803_RAT	Cadherin-2	1.55	0.02242
sp D3ZCL3 RU1C_RAT	U1 small nuclear ribonucleoprotein C	1.55	0.01143

tr Q6AY18 Q6AY18_RAT	SAR1 gene homolog A	1.55	0.04424
sp O70535 LIFR_RAT	Leukemia inhibitory factor receptor	1.55	0.01509
tr Q6P7B6 Q6P7B6_RAT	Ephrin B1	1.55	0.01299
sp P05426 RL7_RAT	60S ribosomal protein L7	1.56	0.03821
tr F1M798 F1M798_RAT	Metalloendopeptidase	1.56	0.01024
sp P14480 FIBB_RAT	Fibrinogen beta chain	1.56	0.01015
sp Q9R0C5 GALT7_RAT	N-acetylgalactosaminyltransferase 7	1.56	0.001316
tr D4ADP9 D4ADP9_RAT	Coatomer subunit zeta	1.56	0.002394
tr D3Z9K6 D3Z9K6_RAT	Family with sequence similarity 180, member A	1.56	0.01033
sp P23097 MMP13_RAT	Collagenase 3 (Fragment)	1.56	0.001485
tr D4A6W6 D4A6W6_RAT	Ribosomal_L2_C domain-containing protein	1.56	0.01295
sp P31211 CBG_RAT	Corticosteroid-binding globulin	1.57	0.04139
tr A0A0G2K5T3 A0A0G2K5T3_RAT	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic	1.57	0.02849
tr A0A0G2JZS9 A0A0G2JZS9_RAT	Ig-like domain-containing protein	1.57	0.001081
tr Q0QEW8 Q0QEW8_RAT	Ribosomal protein L18 (Fragment)	1.57	0.02815
tr D3ZMR0 D3ZMR0_RAT	Olfactomedin-like 2A	1.58	0.003912
sp P07897 PGCA_RAT	Aggrecan core protein	1.58	0.002414
sp Q63377 AT1B3_RAT	Sodium/potassium-transporting ATPase subunit beta-3	1.58	0.0001596
tr G3V7V5 G3V7V5_RAT	Peptidylprolyl isomerase	1.58	0.01484
tr G3V6R4 G3V6R4_RAT	Leucine-rich repeat-containing 1	1.59	0.01318
tr Q66H06 Q66H06_RAT	Tetraspanin	1.59	0.03541
tr A0A292G0W2 A0A292G0W2_RAT	Gai-interacting protein	1.59	0.04169
sp P24090 FETUA_RAT	Alpha-2-HS-glycoprotein	1.6	0.003106
sp P61621 S61A1_RAT	Protein transport protein Sec61 subunit alpha isoform 1	1.6	0.00567
tr Q63109 Q63109_RAT	Coagulation factor X (Fragment)	1.61	0.007705
sp P07861 NEP_RAT	Neprilysin	1.61	0.007377
sp Q9R1J8 P3H1_RAT	Prolyl 3-hydroxylase 1	1.61	0.00003234
tr M0R3V4 M0R3V4_RAT	Myeloid-derived growth factor	1.62	0.03361
tr A0A0G2K7C2 A0A0G2K7C2_RAT	Kinesin family member 20B	1.62	0.04472
tr F1M853 F1M853_RAT	Ribosome-binding protein 1	1.62	0.0003963
sp O35186 CATK_RAT	Cathepsin K	1.62	0.01286
tr B0K010 B0K010_RAT	Thioredoxin domain-containing 17	1.63	0.02971
sp P31720 C1QA_RAT	Complement C1q subcomponent subunit A	1.63	0.04097

tr A0A0H2UHM3 A0A0H2UHM3_RAT	Haptoglobin	1.64	0.03299
tr F1LSW7 F1LSW7_RAT	60S ribosomal protein L14	1.64	0.04956
sp P07335 KCRB_RAT	Creatine kinase B-type	1.64	0.02534
tr A0A0G2K7I1 A0A0G2K7I1_RAT	Ig-like domain-containing protein	1.65	0.04929
tr D4A4L6 D4A4L6_RAT	Ig-like domain-containing protein	1.65	0.0002873
sp Q5RK27 S12A7_RAT	Solute carrier family 12 member 7	1.66	0.0406
sp Q4JM44 SMS2_RAT	Phosphatidylcholine:ceramide cholinephosphotransferase 2	1.66	0.006487
sp P61314 RL15_RAT	60S ribosomal protein L15	1.66	0.01683
tr G3V7K5 G3V7K5_RAT	NPC intracellular cholesterol transporter 1	1.67	0.006344
tr F1LN88 F1LN88_RAT	Aldehyde dehydrogenase, mitochondrial	1.67	0.006583
tr B1WBV5 B1WBV5_RAT	Epiphygan	1.67	0.03172
tr D4A8L3 D4A8L3_RAT	Sphingomyelin phosphodiesterase 3	1.68	0.0004729
tr A7M6E9 A7M6E9_RAT	Semaphorin 3D	1.68	0.001053
tr A0A0G2K1L8 A0A0G2K1L8_RAT	Brain acid soluble protein 1	1.68	0.01871
sp O35276 NRP2_RAT	Neuropilin-2	1.68	0.004991
tr F1LVV3 F1LVV3_RAT	RAN-binding protein 9	1.68	0.03055
sp P84100 RL19_RAT	60S ribosomal protein L19	1.68	0.0431
tr D3ZP13 D3ZP13_RAT	Sulfhydryl oxidase	1.69	0.003651
tr A0A0G2K2S2 A0A0G2K2S2_RAT	Solute carrier family 2, facilitated glucose transporter member 1	1.69	0.01126
sp Q5BJP3 UFM1_RAT	Ubiquitin-fold modifier 1	1.69	0.001307
tr Q7TQ70 Q7TQ70_RAT	Ac1873	1.7	0.01655
tr D3Z9Z7 D3Z9Z7_RAT	Collagen beta(1-O)galactosyltransferase 2	1.7	0.005645
tr D3ZF11 D3ZF11_RAT	Hepatitis B virus x interacting protein	1.71	0.04951
tr A0A0G2JVA4 A0A0G2JVA4_RAT	Procollagen-lysine,2-oxoglutarate 5-dioxygenase 2	1.72	0.002331
sp Q6AYF6 GL8D1_RAT	Glycosyltransferase 8 domain-containing protein 1	1.72	0.0004893
sp O55164 MPDZ_RAT	Multiple PDZ domain protein	1.72	0.0002163
tr D4A5Z6 D4A5Z6_RAT	Coiled-coil domain-containing 34	1.72	0.04846
tr B5DEF3 B5DEF3_RAT	Gamma-glutamyl carboxylase	1.72	0.0108
sp Q66H78 PXYP1_RAT	2-phosphoxylose phosphatase 1	1.73	0.03293
tr F6T0B3 F6T0B3_RAT	Collagen type XI alpha 2 chain	1.73	0.00104
tr M0R5U6 M0R5U6_RAT	Torsin-1A-interacting protein 2	1.74	0.0346
tr D3ZWI0 D3ZWI0_RAT	Cell migration-inducing hyaluronidase	1.76	0.02429
tr O88550 O88550_RAT	Caspase 7	1.76	0.04613

sp Q62703 RCN2_RAT	Reticulocalbin-2	1.79	0.005079
sp P61354 RL27_RAT	60S ribosomal protein L27	1.8	0.02577
tr A0A0G2JX36 A0A0G2JX36_RAT	Ig-like domain-containing protein	1.8	0.002145
sp P63182 CBLN1_RAT	Cerebellin-1	1.82	0.04584
tr D4A275 D4A275_RAT	Glucoside xylosyltransferase 2	1.84	0.006836
tr D3ZKR8 D3ZKR8_RAT	Protein kish	1.85	0.00003605
tr A0A0G2K7A5 A0A0G2K7A5_RAT	Collagen type X alpha 1 chain	1.85	0.00172
sp P16391 HA12_RAT	RT1 class I histocompatibility antigen	1.85	0.002267
sp Q62632 FSTL1_RAT	Follistatin-related protein 1	1.86	0.006747
tr Q5U2V1 Q5U2V1_RAT	Peptidylprolyl isomerase	1.86	0.00125
sp P08289 PPBT_RAT	Alkaline phosphatase, tissue-nonspecific isozyme	1.86	0.0002146
sp O08776 NDUF3_RAT	NADH dehydrogenase1 alpha subcomplex assembly factor 3	1.87	0.01613
sp P97586 CGRE1_RAT	Cell growth regulator with EF hand domain protein 1	1.87	0.001057
tr F1LNY3 F1LNY3_RAT	Neural cell adhesion molecule 1	1.88	0.002889
tr F1LPB5 F1LPB5_RAT	kDEL endoplasmic reticulum protein retention receptor 3	1.88	0.03893
tr D3ZH41 D3ZH41_RAT	Cytoskeleton-associated protein 4	1.9	0.0005229
sp Q9WVC1 SLIT2_RAT	Slit homolog 2 protein	1.91	0.002245
tr F1M7F7 F1M7F7_RAT	Complement component C6	1.94	0.01856
tr D3ZQP6 D3ZQP6_RAT	Sema domain, immunoglobulin domain (Ig), and GPI membrane anchor	1.94	0.008988
tr A0A096P6L8 A0A096P6L8_RAT	Fibronectin	1.94	0.001105
sp Q6AY25 TMED3_RAT	Transmembrane emp24 domain-containing protein 3	1.95	0.0001436
sp Q8CG08 CTHR1_RAT	Collagen triple helix repeat-containing protein 1	1.95	0.0004893
tr G3V723 G3V723_RAT	Phosphate regulating gene with homologies to endopeptidases on the X chromosome	1.95	0.0009709
tr Q4FZY1 Q4FZY1_RAT	Cd68 molecule	1.95	0.02132
sp P62083 RS7_RAT	40S ribosomal protein S7	1.97	0.02133
tr D4ADS6 D4ADS6_RAT	Integrator complex subunit 7	1.97	0.02723
sp Q5PQX0 UXS1_RAT	UDP-glucuronic acid decarboxylase 1	1.98	0.0177
tr D3Z9M5 D3Z9M5_RAT	Peptidylprolyl isomerase	1.98	0.004331
tr A0A0G2JSM1 A0A0G2JSM1_RAT	Ratsg2	1.99	0.0001051
tr D4A4H5 D4A4H5_RAT	Stromal cell derived factor 2	2	0.007248

sp Q9EPH1 A1BG_RAT	Alpha-1B-glycoprotein	2.1	0.0003004
tr A0A096MJU4 A0A096MJU4_RAT	Solute carrier family 37 member 2	2.13	0.01224
tr A0A0G2K4I9 A0A0G2K4I9_RAT	Coagulation factor XI	2.18	0.00006485
tr A0A0G2K9Y0 A0A0G2K9Y0_RAT	Immunoglobulin heavy constant mu	2.19	0.003542
tr D3ZKU5 D3ZKU5_RAT	Uncharacterized protein	2.21	0.02498
tr G3V7N9 G3V7N9_RAT	Adiponectin a	2.27	0.03887
tr A0JPL7 A0JPL7_RAT	Leukocyte cell-derived chemotaxin 1	2.28	0.008315
sp P20909 COBA1_RAT	Collagen alpha-1(XI) chain	2.28	0.0004749
tr B1WBR1 B1WBR1_RAT	Golgi reassembly-stacking protein 1	2.31	0.006278
sp Q6IE14 TM11L_RAT	Transmembrane protease serine 11B-like protein	2.34	0.0009055
tr Q6IMK1 Q6IMK1_RAT	Sp7 transcription factor	2.41	0.02133
tr D3ZFK6 D3ZFK6_RAT	Autophagy-related 16-like 1	2.55	0.02689
tr Q7TNA8 Q7TNA8_RAT	L-lactate dehydrogenase	2.61	0.02465
sp P56374 CRBA4_RAT	Beta-crystallin A4	2.65	0.002346
sp P34900 SDC2_RAT	Syndecan-2	2.7	0.003389
sp P17078 RL35_RAT	60S ribosomal protein L35	2.73	0.04972
tr O35515 O35515_RAT	C-met/hepatocyte growth factor receptor	2.89	0.001192
sp P60572 PANX3_RAT	Pannexin-3	2.99	0.001516
tr F1LUV9 F1LUV9_RAT	Neural cell adhesion molecule 1	3	0.006539
sp O08722 UNC5B_RAT	Netrin receptor UNC5B	3.13	0.00363
tr A0A0G2K8V0 A0A0G2K8V0_RAT	Protein tyrosine phosphatase, receptor type, MGN=Ptpm	3.77	0.0115
tr Q58NB7 Q58NB7_RAT	Retinoic acid receptor responder (Tazarotene induced) 1	4.08	0.000543
tr B1H2A3 B1H2A3_RAT	Bromodomain PHD finger transcription factor	0.26	0.003812
sp Q9EQH5 CTBP2_RAT	C-terminal-binding protein 2	0.4	0.006807
tr Q63910 Q63910_RAT	Alpha globin	0.41	0.01095
tr Q5EBA5 Q5EBA5_RAT	Lipin 3	0.46	0.00009122
tr A0A0G2JZB7 A0A0G2JZB7_RAT	Neuron navigator 3	0.48	0.00609
sp A0A0G2K0D3 LMOD1_RAT	Leiomodlin-1	0.48	0.0462
sp P06907 MYP0_RAT	Myelin protein P0	0.49	0.00899
sp O88831 KKCC2_RAT	Calcium/calmodulin-dependent protein kinase kinase 2	0.5	0.03585
sp Q5XI50 MARCH7_RAT	E3 ubiquitin-protein ligase MARCH7	0.51	0.02382
sp P19527 NFL_RAT	Neurofilament light polypeptide	0.51	0.00348
tr D3ZDK4 D3ZDK4_RAT	Angiopoietin-like 7	0.51	0.001431

tr A0A0G2K1L0 A0A0G2K1L0_RAT	Tenascin C	0.53	0.01641
sp P17988 ST1A1_RAT	Sulfotransferase 1A1	0.53	0.02154
sp Q6PCT8 DHSD_RAT	Succinate dehydrogenase [ubiquinone] cytochrome b small subunit, mitochondrial	0.54	0.04886
tr D3ZK72 D3ZK72_RAT	Keratin-associated protein 16-5	0.56	0.002354
sp Q08290 CNN1_RAT	Calponin-1	0.56	0.02882
sp P04638 APOA2_RAT	Apolipoprotein A-II	0.57	0.02191
tr A0A0G2JVN7 A0A0G2JVN7_RAT	Oogenesin 1	0.57	0.02633
tr D3ZKQ0 D3ZKQ0_RAT	Nudix (Nucleoside diphosphate linked moiety X)-type motif 15	0.57	0.0007321
sp O88801 HOME2_RAT	Homer protein homolog 2	0.58	0.006055
tr Q5PQK3 Q5PQK3_RAT	Tripartite motif-containing 42	0.58	0.01908
sp P80432 COX7C_RAT	Cytochrome c oxidase subunit 7C, mitochondrial	0.58	0.03041
sp Q63228 GMFB_RAT	Glia maturation factor beta	0.58	0.004609
sp Q6MG12 CF136_RAT	Uncharacterized protein C6orf136 homolog	0.58	0.02408
tr D3ZIA7 D3ZIA7_RAT	Anterior gradient 2 (Xenopus laevis)	0.58	0.02767
tr E9PTU4 E9PTU4_RAT	Myosin-11	0.59	0.01848
sp P04916 RET4_RAT	Retinol-binding protein	0.6	0.001988
sp Q566C7 NUDT3_RAT	Diphosphoinositol polyphosphate phosphohydrolase 1	0.6	0.002305
sp P46844 BIEA_RAT	Biliverdin reductase A	0.6	0.0007787
sp P0C089 PTPM1_RAT	Phosphatidylglycerophosphatase and protein-tyrosine phosphatase 1	0.6	0.01126
tr Q6AYC0 Q6AYC0_RAT	HAUS augmin-like complex, subunit 4	0.6	0.03664
tr G3V6A9 G3V6A9_RAT	Microfibril-associated protein 4	0.6	0.002131
sp Q5XIE1 THEM6_RAT	Protein THEM6	0.6	0.01505
sp Q5XIL3 RPC3_RAT	DNA-directed RNA polymerase III subunit RPC3	0.61	0.003253
tr A0A0U1RRX6 A0A0U1RRX6_RAT	5-demethoxyubiquinone hydroxylase, mitochondrial (Fragment)	0.61	0.01683
sp Q5BJT4 TXD15_RAT	Thioredoxin domain-containing protein 15	0.61	0.0008456
tr Q5XIH1 Q5XIH1_RAT	Asporin	0.61	0.000005075
tr A0A0G2JV49 A0A0G2JV49_RAT	Protein phosphatase 6, regulatory subunit 2	0.61	0.01109
tr M0R5G7 M0R5G7_RAT	Keratin-associated protein 22-2	0.61	0.0173
tr D3ZML4 D3ZML4_RAT	Similar to RIKEN cDNA	0.62	0.007883
tr Q7TNX2 Q7TNX2_RAT	Liver regeneration-related protein	0.62	0.002522
tr B1H271 B1H271_RAT	Mitochondrial coenzyme A transporter SLC25A42	0.62	0.001657

tr D3ZDF3 D3ZDF3_RAT	MRV integration site 1 homolog	0.63	0.02353
tr D3ZCS4 D3ZCS4_RAT	IQ motif-containing GTPase-activating protein 3	0.63	0.0006522
tr D4A559 D4A559_RAT	Dematin actin-binding protein	0.63	0.0008044
sp Q5PQN7 LZIC_RAT	Protein LZIC	0.64	0.003502
tr A0A0G2JW50 A0A0G2JW50_RAT	Phosphatidylinositol transfer protein, membrane-associated 2	0.64	0.005186
sp Q9EQT5 TINAL_RAT	Tubulointerstitial nephritis antigen-like	0.64	0.01697
tr D3ZN64 D3ZN64_RAT	Collagen type XXVIII alpha 1 chain	0.64	0.01006
tr D3ZIL6 D3ZIL6_RAT	Enoyl CoA hydratase domain-containing 2	0.64	0.01343
tr D3ZC55 D3ZC55_RAT	Heat shock 70kDa protein 12A	0.64	0.0004399
tr F1M8I6 F1M8I6_RAT	Homeodomain-interacting protein kinase 1	0.64	0.03932
tr B1H257 B1H257_RAT	BLOC-1-related complex subunit 5	0.64	0.009142
tr A0A0G2JST5 A0A0G2JST5_RAT	Elastin	0.64	0.004676
tr F1M7B7 F1M7BRAT	6-phosphofructo-2-kinase/fructose-2	0.64	0.001324
sp P35213 1433B_RAT	14-3-3 protein beta/alpha	0.65	0.008167
sp Q4V8B3 MED24_RAT	Mediator of RNA polymerase II transcription subunit 24	0.65	0.004873
tr G3V8L3 G3V8L3_RAT	Lamin A	0.65	0.003225
sp Q9ES71 GNPAT_RAT	Dihydroxyacetone phosphate acyltransferase	0.65	0.04966
tr D3ZCV5 D3ZCV5_RAT	Aldehyde dehydrogenase, cytosolic 1	0.65	0.01133
tr D4ABN3 D4ABN3_RAT	Synaptojanin-1	0.65	0.03416
sp P63031 MPC1_RAT	Mitochondrial pyruvate carrier 1	0.65	0.02843
sp Q9Z1B2 GSTM5_RAT	Glutathione S-transferase Mu 5	0.66	0.008064
tr Q562B7 Q562B7_RAT	Ptpn3 protein (Fragment)	0.66	0.00195
tr A0A0G2K6I0 A0A0G2K6I0_RAT	Similar to ribosomal protein S15a	0.66	0.004194
sp Q5DT39 KLRI1_RAT	Killer cell lectin-like receptor subfamily I member 1	0.66	0.002692
tr A0A0G2JU6 A0A0G2JU6_RAT	Exosome complex component RRP45	0.66	0.02732
tr G3V927 G3V927_RAT	Discs, large homolog-associated protein 4	0.66	0.04863
sp P31430 DPEP1_RAT	Dipeptidase 1	0.66	0.03623
tr D3ZS88 D3ZS88_RAT	Activating transcription factor 7-interacting protein	0.66	0.03088
sp P14669 ANXA3_RAT	Annexin A3	0.66	0.04388

Table S3. Significant difference protein in Control-VS-10-30 kD samples.

Protein Number	Protein Description	Average Ratio	P value
sp P07897 PGCA_RAT	Aggrecan core protein	1.51	0.01236
sp Q9ERB4 CSPG2_RAT	Versican core protein	1.52	0.04654
tr D4A4H5 D4A4H5_RAT	Stromal cell derived factor 2	1.52	0.03901
sp Q8CH87 GCNT3_RAT	Beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase 3	1.52	0.04185
sp P62083 RS7_RAT	40S ribosomal protein S7	1.53	0.04183
tr D3ZIK0 D3ZIK0_RAT	Glucuronic acid epimerase	1.53	0.04154
tr D3ZYI7 D3ZYI7_RAT	Olfactory receptor	1.54	0.007371
tr F1M065 F1M065_RAT	Junctional adhesion molecule 2	1.56	0.04396
tr A1L1M0 A1L1M0_RAT	Protein kinase, cAMP-dependent, catalytic, alpha	1.56	0.04614
sp P47853 PGS1_RAT	Biglycan	1.56	0.002068
sp Q9QX67 DAP1_RAT	Death-associated protein 1	1.58	0.0319
sp P54001 P4HA1_RAT	Prolyl 4-hydroxylase subunit alpha-1	1.58	0.0003483
sp P70560 COCA1_RAT	Collagen alpha-1(XII) chain	1.59	0.01162
sp Q66H78 PXYP1_RAT	2-phosphoxylase phosphatase 1	1.59	0.03026
tr Q6IFW1 Q6IFW1_RAT	RCG34348	1.63	0.02319
sp P60572 PANX3_RAT	Pannexin-3	1.63	0.04626
sp P20909 COBA1_RAT	Collagen alpha-1(XI) chain	1.63	0.002578
sp P34900 SDC2_RAT	Syndecan-2	1.64	0.01577
tr A7LKE6 A7LKE6_RAT	R-spondin 3	1.64	0.0223
tr Q5XIQ8 Q5XIQ8_RAT	Hexosyltransferase	1.65	0.02586
sp Q62632 FSTL1_RAT	Follistatin-related protein 1	1.7	0.01388
sp Q6IE14 TM11L_RAT	Transmembrane protease serine 11B-like protein	1.71	0.004908
tr D3Z9Z7 D3Z9Z7_RAT	Collagen beta(1-O)galactosyltransferase 2	1.71	0.005381
sp Q62751 IREB2_RAT	Iron-responsive element-binding protein 2	1.78	0.03392
tr O35515 O35515_RAT	C-met/hepatocyte growth factor receptor	1.8	0.004598
tr F1LND0 F1LND0_RAT	Collagen type XVI alpha 1 chain	1.86	0.02595
tr A0A0G2K7C2 A0A0G2K7C2_RAT	Kinesin family member 20B	1.9	0.02059
tr Q58NB7 Q58NB7_RAT	Retinoic acid receptor responder	1.96	0.001302
tr A0A0G2K8V0 A0A0G2K8V0_RAT	Protein tyrosine phosphatase,	2.07	0.001518

sp P01143 CRF_RAT	Corticoliberin	2.27	0.0001548
tr D4ACD9 D4ACD9_RAT	Protein tyrosine phosphatase domain containing 1	2.35	0.03423
tr Q7TNA8 Q7TNA8_RAT	L-lactate dehydrogenase	2.57	0.03264
tr M0R7M4 M0R7M4_RAT	RAD51-associated protein 2	3.6	0.00612
tr A0A096MJ14 A0A096MJ14_RAT	Uncharacterized protein (Fragment)	4.38	0.04871
tr B1H2A3 B1H2A3_RAT	Bromodomain PHD finger transcription factor	0.23	0.003362
tr A0A0G2JSH5 A0A0G2JSH5_RAT	Serum albumin	0.41	0.000387
tr Q9JKL3 Q9JKL3_RAT	Apoptosis regulator BAX	0.48	0.02065
tr Q5PQK3 Q5PQK3_RAT	Tripartite motif-containing 42	0.5	0.005958
tr D3ZVP9 D3ZVP9_RAT	Solute carrier family 4 member 11	0.52	0.008403
sp P04638 APOA2_RAT	Apolipoprotein A-II	0.53	0.01744
tr A0A0G2JVN7 A0A0G2JVN7_RAT	Oogenesis 1	0.55	0.02082
sp Q4V7F2 CREL1_RAT	Protein disulfide isomerase Creld1	0.56	0.0001455
tr Q63910 Q63910_RAT	Alpha globin	0.56	0.03798
tr Q63011 Q63011_RAT	Zero beta-globin	0.56	0.04836
sp Q99MB4 CBWD1_RAT	COBW domain-containing protein 1	0.58	0.03405
tr D3ZIA7 D3ZIA7_RAT	Anterior gradient 2 (<i>Xenopus laevis</i>)	0.58	0.02856
tr F1M1C9 F1M1C9_RAT	Phosphorylase b kinase regulatory subunit	0.59	0.04483
tr D3ZKQ0 D3ZKQ0_RAT	Nudix (Nucleoside diphosphate linked moiety X)-type motif 15	0.59	0.00001754
sp P17988 ST1A1_RAT	Sulfotransferase 1A1	0.6	0.001972
tr M0R9U2 M0R9U2_RAT	Ig-like domain-containing protein	0.6	0.02211
tr D3ZPE2 D3ZPE2_RAT	Family with sequence similarity 222	0.61	0.01745
tr Q6MGA0 Q6MGA0_RAT	MHC class II antigen	0.62	0.01201
tr A0A0G2JSW3 A0A0G2JSW3_RAT	Globin a4	0.63	0.04567
tr Q5EBA5 Q5EBA5_RAT	Lipin 3	0.64	0.03012
sp P31430 DPEP1_RAT	Dipeptidase 1	0.64	0.03147
sp O88801 HOME2_RAT	Homer protein homolog 2	0.65	0.01753
tr G3V927 G3V927_RAT	Discs, large homolog-associated protein 4 (<i>Drosophila</i>)	0.65	0.04231

sp P04916 RET4_RAT	Retinol-binding protein	0.66	0.001538
sp P19527 NFL_RAT	Neurofilament light polypeptide	0.66	0.00001774