

Table S1 Screened down-regulated proteins by proteomic detection and GEPIA.2 database

Protein	UniProt ID	P	T	Ratio	P value
O00159	MYO1C_HUMAN	1.36054422	0.6394558	0.47	6.1736E-19
O00763	ACACB_HUMAN	1.52788388	0.4721161	0.309	0.00054677
O14558	HSPB6_HUMAN	1.33958473	0.6604153	0.493	0.00023161
O15247	CLIC2_HUMAN	1.25234815	0.7476518	0.597	0.0042528
O43301	HS12A_HUMAN	1.35501355	0.6449864	0.476	1.0591E-06
O43491	E41L2_HUMAN	1.21359223	0.7864078	0.648	3.4257E-05
O60240	PLIN1_HUMAN	1.50432493	0.4956751	0.3295	1.597E-16
O75781	PALM_HUMAN	1.41242938	0.5875706	0.416	0.00049725
O75891	AL1L1_HUMAN	1.54202005	0.45798	0.297	1.0724E-08
O76070	SYUG_HUMAN	1.31752306	0.6824769	0.518	8.5772E-06
O94911	ABCA8_HUMAN	1.31233596	0.687664	0.524	0.00142807
O95969	SG1D2_HUMAN	1.57480315	0.4251969	0.27	0.00423645
P00325	ADH1B_HUMAN	1.60064026	0.3993597	0.2495	5.6319E-55
P00352	AL1A1_HUMAN	1.29282482	0.7071752	0.547	3.3168E-07
P00387	NB5F3_HUMAN	1.29366106	0.7063389	0.546	2.2404E-14
P00450	CERU_HUMAN	1.27795527	0.7220447	0.565	7.4447E-18
P00488	F13A_HUMAN	1.25549278	0.7445072	0.593	8.1569E-10
P00533	EGFR_HUMAN	1.29240711	0.7075929	0.5475	0.00492403
P00746	CFAD_HUMAN	1.40894681	0.5910532	0.4195	0.00066217
P00966	ASSY_HUMAN	1.36425648	0.6357435	0.466	5.4212E-08
P01023	A2MG_HUMAN	1.2987013	0.7012987	0.54	1.2797E-35
P01024	CO3_HUMAN	1.20772947	0.7922705	0.656	1.6639E-52
P01833	PIGR_HUMAN	1.37646249	0.6235375	0.453	8.4387E-05
P01876	IGHA1_HUMAN	1.26984127	0.7301587	0.575	4.7753E-14
P02511	CRYAB_HUMAN	1.56862745	0.4313725	0.275	1.6823E-08
P02768	ALBU_HUMAN	1.27632419	0.7236758	0.567	0
P04003	C4BPA_HUMAN	1.23533045	0.7646695	0.619	1.4031E-16
P04040	CATA_HUMAN	1.53905348	0.4609465	0.2995	1.3856E-18
P04083	ANXA1_HUMAN	1.30804447	0.6919555	0.529	5.7324E-18
P04264	K2C1_HUMAN	1.26984127	0.7301587	0.575	8.9272E-05
P04275	VWF_HUMAN	1.30633573	0.6936643	0.531	2.9529E-20
P05091	ALDH2_HUMAN	1.43369176	0.5663082	0.395	7.354E-06
P05452	TETN_HUMAN	1.24882922	0.7511708	0.6015	0.00963534
P06703	S10A6_HUMAN	1.34952767	0.6504723	0.482	0.0004362
P06737	PYGL_HUMAN	1.35455469	0.6454453	0.4765	3.2968E-10
P07195	LDHB_HUMAN	1.33958473	0.6604153	0.493	1.6062E-11
P07225	PROS_HUMAN	1.34725497	0.652745	0.4845	0.00087605
P07451	CAH3_HUMAN	1.51630023	0.4836998	0.319	3.3464E-05
P07942	LAMB1_HUMAN	1.32187707	0.6781229	0.513	2.2633E-13
P08294	SODE_HUMAN	1.20992136	0.7900786	0.653	0.00063633
P08670	VIME_HUMAN	1.22737036	0.7726296	0.6295	4.8199E-30
P08697	A2AP_HUMAN	1.32450331	0.6754967	0.51	3.5501E-06
P09972	ALDOC_HUMAN	1.25944584	0.7405542	0.588	0.0057946
P10301	RRAS_HUMAN	1.27795527	0.7220447	0.565	0.00180024
P10643	CO7_HUMAN	1.20156203	0.798438	0.6645	0.00110747
P11047	LAMC1_HUMAN	1.43833154	0.5616685	0.3905	2.5688E-23
P11498	PYC_HUMAN	1.20264582	0.7973542	0.663	8.9208E-06
P11532	DMD_HUMAN	1.37221269	0.6277873	0.4575	1.8884E-05
P12273	PIP_HUMAN	1.44300144	0.5569986	0.386	3.5211E-31
P12277	KCRB_HUMAN	1.2755102	0.7244898	0.568	4.2801E-09
P12429	ANXA3_HUMAN	1.23190638	0.7680936	0.6235	3.0465E-11
P13671	CO6_HUMAN	1.23304562	0.7669544	0.622	1.5572E-07
P14543	NID1_HUMAN	1.39958013	0.6004199	0.429	1.3424E-13
P15090	FABP4_HUMAN	1.58478605	0.4152139	0.262	7.8745E-53
P16219	ACADS_HUMAN	1.29659643	0.7034036	0.5425	8.4567E-05
P16452	EPB42_HUMAN	1.58667196	0.413328	0.2605	8.993E-06
P16671	CD36_HUMAN	1.58730159	0.4126984	0.26	7.484E-14
P21397	AOFA_HUMAN	1.46466496	0.535335	0.3655	1.6154E-06
P21399	ACOC_HUMAN	1.21580547	0.7841945	0.645	6.2279E-07
P21589	5NTD_HUMAN	1.26103405	0.738966	0.586	0.00759825
P21695	GPDA_HUMAN	1.54798762	0.4520124	0.292	1.7054E-18
P22105	TENX_HUMAN	1.32625995	0.6737401	0.508	8.6956E-30
P22676	CALB2_HUMAN	1.48533234	0.5146677	0.3465	1.0483E-06
P23141	EST1_HUMAN	1.43988481	0.5601152	0.389	2.8992E-07
P23229	ITA6_HUMAN	1.31752306	0.6824769	0.518	0.00049692
P24043	LAMA2_HUMAN	1.28328521	0.7167148	0.5585	0.00325765
P24298	ALAT1_HUMAN	1.40498771	0.5950123	0.4235	0.00031137
P26447	S10A4_HUMAN	1.31061599	0.689384	0.526	0.00021987
P27105	STOM_HUMAN	1.29533679	0.7046632	0.544	3.3943E-14
P27338	AOFB_HUMAN	1.2642225	0.7357775	0.582	9.6285E-05
P31323	KAP3_HUMAN	1.41643059	0.5835694	0.412	0.00013019
P33121	ACSL1_HUMAN	1.4461316	0.5538684	0.383	1.1233E-16
P39059	COFA1_HUMAN	1.39372822	0.6062718	0.435	7.2838E-06
P42330	AK1C3_HUMAN	1.41043724	0.5895628	0.418	6.5073E-06
P42765	THIM_HUMAN	1.27959053	0.7204095	0.563	5.0852E-07
P43121	MUC18_HUMAN	1.43575018	0.5642498	0.393	3.6785E-08
P48163	MAOX_HUMAN	1.37457045	0.6254296	0.455	0.00381169
P51636	CAV2_HUMAN	1.44196107	0.5580389	0.387	0.00412808
P54289	CA2D1_HUMAN	1.30039012	0.6996099	0.538	0.00216406
P55268	LAMB2_HUMAN	1.43061516	0.5693848	0.398	2.1333E-28
P55290	CAD13_HUMAN	1.39664804	0.603352	0.432	0.007346
P56199	ITA1_HUMAN	1.26143173	0.7385683	0.5855	0.00159665
P61764	STXB1_HUMAN	1.41944642	0.5805536	0.409	0.00276067
P62070	RRAS2_HUMAN	1.38504155	0.6149584	0.444	0.00111997
P63096	GNAI1_HUMAN	1.47383935	0.5261606	0.357	0.00017787
P68871	HBB_HUMAN	1.66251039	0.3374896	0.203	6.937E-166
P69905	HBA_HUMAN	1.65837479	0.3416252	0.206	4.4276E-75
P98160	PGBM_HUMAN	1.28824477	0.7117552	0.5525	8.1264E-32
Q01082	SPTB2_HUMAN	1.29198966	0.7080103	0.548	2.2168E-31
Q01469	FABP5_HUMAN	1.37033231	0.6296677	0.4595	6.4835E-11
Q02952	AKA12_HUMAN	1.23609394	0.7639061	0.618	1.6035E-05
Q03135	CAV1_HUMAN	1.43369176	0.5663082	0.395	1.2786E-11
Q05469	LIPS_HUMAN	1.5117158	0.4882842	0.323	1.2207E-10
Q13361	MFAP5_HUMAN	1.5060241	0.4939759	0.328	0.00186517
Q13642	FHL1_HUMAN	1.49031297	0.509687	0.342	2.7213E-08
Q13683	ITA7_HUMAN	1.41743444	0.5825656	0.411	1.8227E-06
Q14624	ITIH4_HUMAN	1.25078174	0.7492183	0.599	1.1423E-10
Q15124	PGM5_HUMAN	1.22774708	0.7722529	0.629	7.0245E-06
Q15847	ADIRF_HUMAN	1.29282482	0.7071752	0.547	0.00936148
Q16134	ETFD_HUMAN	1.22399021	0.7760098	0.634	1.9834E-05
Q16363	LAMA4_HUMAN	1.42045455	0.5795455	0.408	6.8847E-13
Q16836	HCDH_HUMAN	1.36379134	0.6362087	0.4665	2.3735E-05
Q16851	UGPA_HUMAN	1.36147039	0.6385296	0.469	2.5241E-18
Q16853	AOC3_HUMAN	1.54202005	0.45798	0.297	2.4608E-20
Q687X5	STEA4_HUMAN	1.35501355	0.6449864	0.476	0.00340973
Q6NUM9	RETST_HUMAN	1.35501355	0.6449864	0.476	0.00017121
Q6NY19	KANK3_HUMAN	1.32144037	0.6785596	0.5135	0.0058884
Q6UXB8	PI16_HUMAN	1.54202005	0.45798	0.297	0.00181115
Q86VB7	C163A_HUMAN	1.32802125	0.6719788	0.506	1.5536E-10
Q92781	RDH1_HUMAN	1.45666424	0.5433358	0.373	0.00273196
Q96AC1	FERM2_HUMAN	1.35409614	0.6459039	0.477	1.0905E-10
Q96FV2	SCRN2_HUMAN	1.20048019	0.7995198	0.666	0.00108376
Q96Q06	PLIN4_HUMAN	1.59616919	0.4038308	0.253	1.1336E-48
Q9BRX8	F213A_HUMAN	1.49253731	0.5074627	0.34	4.4825E-09
Q9BX66	SRBS1_HUMAN	1.40203295	0.5979671	0.4265	2.6473E-07
Q9BX97	PLVAP_HUMAN	1.2012012	0.7987988	0.665	0.00658363
Q9HBL0	TENS1_HUMAN	1.27226463	0.7277354	0.572	1.9054E-07
Q9NWX5	ECHD1_HUMAN	1.30420606	0.6957939	0.5335	2.0504E-05
Q9NZN4	EHD2_HUMAN	1.47928994	0.5207101	0.352	3.2169E-21
Q9Y4G6	TLN2_HUMAN	1.28534704	0.714653	0.556	4.4061E-20

Table S2 Screened up-regulated proteins by proteomic detection and GEPIA.2 database

Protein	UniProt ID	P	T	Ratio	P value
O43583	DENR_HUMAN	0.728199527	1.271800473	1.7465	0.006164239
O75223	GGCT_HUMAN	0.665335995	1.334664005	2.006	0.003326817
O76094	SRP72_HUMAN	0.7390983	1.2609017	1.706	0.000612669
O94760	DDAH1_HUMAN	0.735023888	1.264976112	1.721	0.000901056
O94906	PRP6_HUMAN	0.767606985	1.232393015	1.6055	0.002135071
P02786	TFR1_HUMAN	0.745156483	1.254843517	1.684	0.002903714
P04792	HSPB1_HUMAN	0.789265983	1.210734017	1.534	7.77769E-05
P05783	K1C18_HUMAN	0.596569724	1.403430276	2.3525	1.38377E-08
P05787	K2C8_HUMAN	0.456777435	1.543222565	3.3785	3.49006E-13
P06748	NPM_HUMAN	0.758437619	1.241562381	1.637	0.005875224
P07910	HNRPC_HUMAN	0.747104968	1.252895032	1.677	0.004032246
P08123	CO1A2_HUMAN	0.795228628	1.204771372	1.515	6.11323E-10
P08727	K1C19_HUMAN	0.572573719	1.427426281	2.493	1.00891E-10
P09874	PARP1_HUMAN	0.716460684	1.283539316	1.7915	0.007477093
P0DMV8	HS71A_HUMAN	0.779423227	1.220576773	1.566	2.8258E-06
P10155	RO60_HUMAN	0.631313131	1.368686869	2.168	0.000968119
P11142	HSP7C_HUMAN	0.797289217	1.202710783	1.5085	2.50214E-13
P12830	CADH1_HUMAN	0.653915318	1.346084682	2.0585	1.42929E-05
P13010	XRCC5_HUMAN	0.70323488	1.29676512	1.844	3.97037E-06
P13611	CSPG2_HUMAN	0.552944429	1.447055571	2.617	4.99453E-06
P14678	RSMB_HUMAN	0.738279808	1.261720192	1.709	0.003967077
P15170	ERF3A_HUMAN	0.643293664	1.356706336	2.109	0.006605383
P15311	EZRI_HUMAN	0.680966973	1.319033027	1.937	0.000111799
P15924	DESP_HUMAN	0.538575468	1.461424532	2.7135	3.48866E-14
P18085	ARF4_HUMAN	0.768935025	1.231064975	1.601	0.007548843
P19338	NUCL_HUMAN	0.682943486	1.317056514	1.9285	4.88773E-05
P20700	LMNB1_HUMAN	0.670690812	1.329309188	1.982	6.80059E-05
P21266	GSTM3_HUMAN	0.597371565	1.402628435	2.348	2.26976E-05
P22234	PUR6_HUMAN	0.657894737	1.342105263	2.04	0.005674788
P23193	TCEA1_HUMAN	0.624414611	1.375585389	2.203	0.004442461
P23528	COF1_HUMAN	0.540248514	1.459751486	2.702	1.40437E-08
P26639	SYTC_HUMAN	0.769822941	1.230177059	1.598	0.002425976
P30520	PURA2_HUMAN	0.58979652	1.41020348	2.391	0.003515081
P31948	STIP1_HUMAN	0.759589821	1.240410179	1.633	3.67843E-10
P35442	TSP2_HUMAN	0.55233361	1.44766639	2.621	7.3699E-05
P37802	TAGL2_HUMAN	0.766283525	1.233716475	1.61	4.79149E-05
P38919	IF4A3_HUMAN	0.687285223	1.312714777	1.91	0.008213099
P39748	FEN1_HUMAN	0.625586487	1.374413513	2.197	0.005466157
P40121	CAPG_HUMAN	0.525210084	1.474789916	2.808	0.000100328
P43487	RANG_HUMAN	0.67351406	1.32648594	1.9695	0.007456127
P48735	IDHP_HUMAN	0.771010023	1.228989977	1.594	8.23933E-07
P49915	GUAA_HUMAN	0.748783227	1.251216773	1.671	0.000175359
P50454	SERPH_HUMAN	0.622858922	1.377141078	2.211	6.01505E-06
P50851	LRBA_HUMAN	0.658653055	1.341346945	2.0365	0.000609108
P51884	LUM_HUMAN	0.760600875	1.239399125	1.6295	6.53663E-13
P52306	GDS1_HUMAN	0.780031201	1.219968799	1.564	0.008913827
P52566	GDIR2_HUMAN	0.771753811	1.228246189	1.5915	0.005656912
P53621	COPA_HUMAN	0.709471444	1.290528556	1.819	3.57151E-08
P55265	DSRAD_HUMAN	0.769230769	1.230769231	1.6	0.002871291
P61081	UBC12_HUMAN	0.729128691	1.270871309	1.743	0.003600053
P61604	CH10_HUMAN	0.715563506	1.284436494	1.795	0.00066449
P62805	H4_HUMAN	0.774893452	1.225106548	1.581	1.61525E-08
P62826	RAN_HUMAN	0.781097442	1.218902558	1.5605	0.003167895
P78527	PRKDC_HUMAN	0.731796561	1.268203439	1.733	1.08588E-10
Q00341	VIGLN_HUMAN	0.750469043	1.249530957	1.665	1.07035E-05
Q00688	FKBP3_HUMAN	0.566732785	1.433267215	2.529	0.00651434
Q00796	DHSO_HUMAN	0.772200772	1.227799228	1.59	0.005067755
Q00839	HNRPU_HUMAN	0.703111267	1.296888733	1.8445	0.000159278
Q01105	SET_HUMAN	0.520020801	1.479979199	2.846	0.000293636
Q02790	FKBP4_HUMAN	0.577200577	1.422799423	2.465	8.29321E-05
Q06210	GFPT1_HUMAN	0.706214689	1.293785311	1.832	6.28233E-05
Q06830	PRDX1_HUMAN	0.738552437	1.261447563	1.708	5.45718E-08
Q07065	CKAP4_HUMAN	0.766430351	1.233569649	1.6095	5.17643E-06
Q13153	PAK1_HUMAN	0.538647994	1.461352006	2.713	0.00354872
Q13177	PAK2_HUMAN	0.796971508	1.203028492	1.5095	0.009001749
Q13185	CBX3_HUMAN	0.545033383	1.454966617	2.6695	0.00137969
Q13263	TIF1B_HUMAN	0.751597144	1.248402856	1.661	0.000230832
Q14847	LASP1_HUMAN	0.786936848	1.213063152	1.5415	0.008203029
Q15063	POSTN_HUMAN	0.541345243	1.458654757	2.6945	1.36919E-12
Q15185	TEBP_HUMAN	0.79633685	1.20366315	1.5115	0.000382492
Q15437	SC23B_HUMAN	0.715563506	1.284436494	1.795	0.002945394
Q15833	STXB2_HUMAN	0.781860829	1.218139171	1.558	0.005127278
Q6P996	PDXD1_HUMAN	0.550206327	1.449793673	2.635	1.08723E-05
Q86VP6	CAND1_HUMAN	0.723589001	1.276410999	1.764	2.33593E-10
Q8IV36	HID1_HUMAN	0.636841267	1.363158733	2.1405	0.002397717
Q8N1S5	S39AB_HUMAN	0.705467372	1.294532628	1.835	0.007754981
Q8TF66	LRC15_HUMAN	0.546298825	1.453701175	2.661	0.00294708
Q92598	HS105_HUMAN	0.76394194	1.23605806	1.618	0.002144996
Q96A35	RM24_HUMAN	0.737871241	1.262128759	1.7105	0.004032021
Q99715	COCA1_HUMAN	0.648508431	1.351491569	2.084	1.36339E-11
Q9BZK7	TBL1R_HUMAN	0.73964497	1.26035503	1.704	0.003795054
Q9H3P7	GCP60_HUMAN	0.705218618	1.294781382	1.836	0.000972587
Q9HCC0	MCCB_HUMAN	0.705716302	1.294283698	1.834	0.000144853
Q9NR45	SIAS_HUMAN	0.689061154	1.310938846	1.9025	5.07267E-05
Q9NR99	MXRA5_HUMAN	0.683176772	1.316823228	1.9275	0.004448784
Q9NY33	DPP3_HUMAN	0.720980534	1.279019466	1.774	0.000322739
Q9NZB2	F120A_HUMAN	0.743494424	1.256505576	1.69	2.25452E-05
Q9P258	RCC2_HUMAN	0.587975893	1.412024107	2.4015	0.009155968
Q9UBE0	SAE1_HUMAN	0.717360115	1.282639885	1.788	0.00053816
Q9UNE7	CHIP_HUMAN	0.657246139	1.342753861	2.043	0.000281691
Q9Y3C6	PPIL1_HUMAN	0.799360512	1.200639488	1.502	0.00120908
Q9Y6E2	BZW2_HUMAN	0.735158978	1.264841022	1.7205	0.005659967