

## Appendix 2.2 Top 100 Cytosolic protein genes

Reference	Human Refseq (Oct. 2017) best blast result	logFC
TRINITY_DN34217_c3_g2	NP_001153699.1_spatascin_isoform_2_[Homo_sapiens]	7.45927348
TRINITY_DN33554_c0_g2	NP_055300.1_hematopoietic_prostaglandin_D_synthase_[Homo_sapie]	7.08321917
TRINITY_DN36025_c0_g1	NP_612144.1_E3_ubiquitin-protein_ligase_DTX3L_[Homo_sapiens]	6.85063022
TRINITY_DN23468_c0_g1	NP_444510.2_outer_dense_fiber_protein_3_isoform_1_[Homo_sapiens]	6.76394845
TRINITY_DN33724_c0_g1	NP_006588.1_heat_shock_cognate_71_kDa_protein_isoform_1_[Homo]	6.57319851
TRINITY_DN25005_c0_g1	NP_060281.2_ubiquitin-conjugating_enzyme_E2_R2_[Homo_sapiens]	5.7771624
TRINITY_DN34062_c3_g4	NP_006588.1_heat_shock_cognate_71_kDa_protein_isoform_1_[Homo]	5.37086744
TRINITY_DN38310_c0_g2	NP_060599.1_pyridoxine-5'-phosphate_oxidase_[Homo_sapiens]	5.25714422
TRINITY_DN32270_c0_g2	NP_005011.1_calcium/calmodulin-dependent_3',5'-cyclic_nucleotide_ph	5.11478912
TRINITY_DN38310_c0_g1	NP_006182.2_proliferation-associated_protein_2G4_[Homo_sapiens]	5.07339246
TRINITY_DN32600_c0_g1	NP_068766.1_serine_racemase_isoform_a_[Homo_sapiens]	4.80323267
TRINITY_DN34294_c0_g1	NP_055135.1_heme-binding_protein_2_isoform_2_[Homo_sapiens]	4.79339907
TRINITY_DN28914_c0_g2	NP_005204.1_cystatin-A_[Homo_sapiens]	4.62939622
TRINITY_DN34464_c0_g1	NP_002494.2_NF-kappa-B_inhibitor_beta_isoform_1_[Homo_sapiens]	3.8839031
TRINITY_DN33492_c0_g1	NP_001275749.1_cytoplasmic_polyadenylation_element-binding_protein	3.85400109
TRINITY_DN34943_c0_g1	NP_001073883.2_protein_Daple_[Homo_sapiens]	3.85400109
TRINITY_DN35205_c1_g2	NP_001074312.1_glutathione_S-transferase_theta-2B_[Homo_sapiens]	3.85400109
TRINITY_DN36449_c0_g2	NP_001436.1_gastrotropin_isoform_2_[Homo_sapiens]	3.85400109
TRINITY_DN29190_c0_g1	NP_443732.3_testis-specific_serine/threonine-protein_kinase_2_[Homo]	3.85400109
TRINITY_DN37086_c0_g5	NP_001654.1_ADP-ribosylation_factor_6_[Homo_sapiens]	3.85400109
TRINITY_DN24551_c0_g1	NP_000844.2_glutathione_S-transferase_theta-1_isoform_a_[Homo_sa]	3.85400109
TRINITY_DN24289_c0_g1	NP_002392.2_mitogen-activated_protein_kinase_kinase_kinase_3_isof	3.85400109
TRINITY_DN32098_c0_g1	NP_001334856.1_sorting_nexin-19_isoform_12_[Homo_sapiens]	3.8078569
TRINITY_DN37566_c1_g2	NP_543136.1_radial_spoke_head_1_homolog_isoform_1_[Homo_sapie]	3.44907931
TRINITY_DN36231_c0_g2	NP_065979.1_zinc_finger_SWIM_domain-containing_protein_6_[Homo]	3.39249275
TRINITY_DN37493_c0_g1	NP_079514.1_BTB/POZ_domain-containing_protein_1_isoform_1_[Hor]	3.16875157
TRINITY_DN38384_c0_g2	NP_000375.2_apolipoprotein_B-100_precursor_[Homo_sapiens]	3.15545772
TRINITY_DN34464_c0_g1	NP_002494.2_NF-kappa-B_inhibitor_beta_isoform_1_[Homo_sapiens]	3.05974591
TRINITY_DN33369_c0_g1	NP_001436.1_gastrotropin_isoform_2_[Homo_sapiens]	2.9388103
TRINITY_DN33714_c9_g2	NP_004087.1_eukaryotic_translation_initiation_factor_4E-binding_prot	2.9136417
TRINITY_DN38045_c0_g4	NP_055852.2_zinc_finger_SWIM_domain-containing_protein_8_isoform	2.8932162
TRINITY_DN38251_c0_g2	NP_056197.3_E3_ubiquitin-protein_ligase_HECTD1_[Homo_sapiens]	2.86543473
TRINITY_DN36864_c1_g2	NP_001264984.1_sacsin_isoform_2_[Homo_sapiens]	2.85297441
TRINITY_DN35528_c5_g1	NP_055135.1_heme-binding_protein_2_isoform_2_[Homo_sapiens]	2.80697421
TRINITY_DN36888_c0_g7	NP_006087.2_protein_NDRG1_isoform_1_[Homo_sapiens]	2.73232144
TRINITY_DN27401_c0_g1	NP_001177718.1_neutrophil_cytosol_factor_2_isoform_3_[Homo_sapie]	2.58939879
TRINITY_DN36785_c2_g1	NP_006606.1_calpain-9_isoform_1_[Homo_sapiens]	2.4793351
TRINITY_DN35745_c1_g1	NP_001074.2_cGMP-specific_3',5'-cyclic_phosphodiesterase_isoform_	2.47215429
TRINITY_DN36712_c2_g3	NP_001157974.1_eukaryotic_translation_initiation_factor_4E_transporte	2.43303176
TRINITY_DN2643_c0_g1::	NP_659447.1_enkurin_isoform_1_[Homo_sapiens]	2.41852083
TRINITY_DN36934_c0_g1	NP_001267730.1_E3_ubiquitin-protein_ligase_RNF130_isoform_2_prec	2.39866704
TRINITY_DN37783_c1_g1	NP_001273001.1_putative_helicase_MOV-10_isoform_2_[Homo_sapie]	2.39558246
TRINITY_DN37999_c0_g3	NP_055867.3_E3_ubiquitin-protein_ligase_HECW1_isoform_a_[Homo_	2.35989316
TRINITY_DN28427_c0_g1	NP_653248.3_calcyphosin-like_protein_[Homo_sapiens]	2.35781715
TRINITY_DN38251_c0_g1	NP_056197.3_E3_ubiquitin-protein_ligase_HECTD1_[Homo_sapiens]	2.32802137
TRINITY_DN33903_c0_g1	NP_004148.1_cAMP-dependent_protein_kinase_type_II-alpha_regulato	2.31355718
TRINITY_DN30157_c0_g2	NP_872577.1_Hermansky-Pudlak_syndrome_1_protein_isoform_c_[Ho]	2.31274881
TRINITY_DN36600_c1_g3	NP_116764.2_caspase-2_isoform_1_preproprotein_[Homo_sapiens]	2.30349985
TRINITY_DN36200_c4_g3	NP_005337.2_heat_shock_70_kDa_protein_1B_[Homo_sapiens]	2.28043645
TRINITY_DN36888_c0_g6	NP_001245362.1_protein_NDRG1_isoform_3_[Homo_sapiens]	2.27811872
TRINITY_DN36712_c2_g7	NP_062817.2_eukaryotic_translation_initiation_factor_4E_transporter_is	2.26648788
TRINITY_DN35293_c1_g1	NP_835365.1_neuronal_migration_protein_doublecortin_isoform_b_[Ho]	2.24205497
TRINITY_DN37479_c1_g1	NP_001306886.1_E3_ubiquitin-protein_ligase_RNF220_isoform_2_[Ho]	2.21937312
TRINITY_DN37916_c0_g1	NP_004087.1_eukaryotic_translation_initiation_factor_4E-binding_prot	2.21186823
TRINITY_DN37056_c0_g1	NP_006249.1_cGMP-dependent_protein_kinase_1_isoform_2_[Homo_s]	2.17500496
TRINITY_DN37514_c1_g2	NP_000344.1_tyrosine_aminotransferase_[Homo_sapiens]	2.16562838
TRINITY_DN37456_c0_g2	NP_904324.1_ubiquitin-protein_ligase_E3B_isoform_1_[Homo_sapiens]	2.10615373
TRINITY_DN35326_c0_g3	NP_073576.1_E3_ubiquitin-protein_ligase_SMURF2_[Homo_sapiens]	2.10261506
TRINITY_DN37464_c0_g1	NP_001191330.1_E3_ubiquitin-protein_ligase_XIAP_[Homo_sapiens]	2.09361012
TRINITY_DN38266_c2_g1	NP_001317481.1_protein_NLRC5_isoform_2_[Homo_sapiens]	2.08593526
TRINITY_DN37783_c1_g2	NP_001273001.1_putative_helicase_MOV-10_isoform_2_[Homo_sapie]	2.08559454

TRINITY_DN32076_c0_g1	NP_001309180.1_RNA-binding_protein_Musashi_homolog_2_isoform_1	2.08414473
TRINITY_DN33567_c0_g1	NP_001309022.1_CCR4-NOT_transcription_complex_subunit_7_isoform_1	2.08117585
TRINITY_DN37897_c2_g2	NP_077747.1_5'-AMP-activated_protein_kinase_subunit_gamma-2_isoform_1	2.08050767
TRINITY_DN36080_c2_g1	NP_981949.1_AMP_deaminase_2_isoform_3_[Homo_sapiens]	2.05478258
TRINITY_DN36481_c1_g1	NP_001879.1_ketimine_reductase_mu-crystallin_[Homo_sapiens]	2.04289937
TRINITY_DN38192_c1_g3	NP_892007.1_baculoviral_IAP_repeat-containing_protein_3_[Homo_sapiens]	2.03729036
TRINITY_DN35123_c0_g2	NP_071334.1_egl_nine_homolog_1_[Homo_sapiens]	2.02450618
TRINITY_DN31825_c0_g6	NP_003879.2_retinal_dehydrogenase_2_isoform_1_[Homo_sapiens]	2.02099618
TRINITY_DN37666_c0_g1	NP_055331.1_CCR4-NOT_transcription_complex_subunit_3_[Homo_sapiens]	2.02027538
TRINITY_DN31742_c0_g2	NP_001243095.1_baculoviral_IAP_repeat-containing_protein_2_isoform_1	2.02019889
TRINITY_DN37984_c0_g1	NP_055427.2_constitutive_coactivator_of_PPAR-gamma-like_protein_1	2.02019542
TRINITY_DN38007_c0_g5	NP_062536.2_sickle_tail_protein_homolog_isoform_1_[Homo_sapiens]	2.02017454
TRINITY_DN37700_c1_g2	NP_892007.1_baculoviral_IAP_repeat-containing_protein_3_[Homo_sapiens]	2.02017021
TRINITY_DN38037_c1_g2	NP_060288.3_WD_repeat-containing_protein_WRAP73_[Homo_sapiens]	2.02012721
TRINITY_DN31794_c0_g1	NP_055135.1_heme-binding_protein_2_isoform_2_[Homo_sapiens]	2.01843475
TRINITY_DN36660_c0_g4	NP_077307.2_alpha-tocopherol_transfer_protein-like_isoform_1_[Homo_sapiens]	2.01560516
TRINITY_DN35303_c0_g1	NP_065956.1_retinol_dehydrogenase_14_[Homo_sapiens]	2.01541163
TRINITY_DN38045_c0_g1	NP_055852.2_zinc_finger_SWIM_domain-containing_protein_8_isoform_1	2.01439892
TRINITY_DN38501_c3_g1	NP_003326.2_ubiquitin-like_modifier-activating_enzyme_7_[Homo_sapiens]	2.01409086
TRINITY_DN37467_c2_g2	NP_036361.1_cytosolic_purine_5'-nucleotidase_[Homo_sapiens]	2.0110424
TRINITY_DN36423_c0_g5	NP_001305872.1_male-enhanced_antigen_1_isoform_2_[Homo_sapiens]	2.01089981
TRINITY_DN38010_c0_g1	NP_006639.3_serine/threonine-protein_kinase_WNK2_isoform_2_[Homo_sapiens]	2.01056789
TRINITY_DN34217_c3_g2	NP_001153699.1_spatacsin_isoform_2_[Homo_sapiens]	2.01048365
TRINITY_DN36413_c0_g3	NP_056104.2_vam6/Vps39-like_protein_isoform_b_[Homo_sapiens]	2.01015472
TRINITY_DN33828_c5_g3	NP_127497.1_NACHT_LRR_and_PYD_domains-containing_protein_1	2.01013214
TRINITY_DN38087_c0_g4	NP_001034679.2_probable_ubiquitin_carboxyl-terminal_hydrolase_FAF1	2.00986882
TRINITY_DN34113_c3_g1	NP_849172.2_protein_NLRC3_[Homo_sapiens]	2.00897561
TRINITY_DN35736_c1_g1	NP_055227.1_calcyclin-binding_protein_isoform_1_[Homo_sapiens]	2.00762356
TRINITY_DN37467_c2_g1	NP_036361.1_cytosolic_purine_5'-nucleotidase_[Homo_sapiens]	2.00656742
TRINITY_DN36048_c0_g1	NP_987096.1_kelch-like_ECH-associated_protein_1_[Homo_sapiens]	2.00612038
TRINITY_DN33680_c0_g1	NP_065210.2_ankyrin-1_isoform_2_[Homo_sapiens]	2.0048723
TRINITY_DN37266_c0_g3	NP_001156506.1_regulatory-associated_protein_of_mTOR_isoform_2	2.00481011
TRINITY_DN33986_c0_g4	NP_149095.2_stonin-2_isoform_1_[Homo_sapiens]	2.00297344
TRINITY_DN36104_c0_g1	NP_001034200.1_E3_ubiquitin-protein_ligase_TRIM71_[Homo_sapiens]	2.00254823
TRINITY_DN33455_c4_g5	NP_940936.2_uncharacterized_protein_C19orf45_[Homo_sapiens]	2.00198569
TRINITY_DN3175_c0_g1::	NP_001096123.1_OTU_domain-containing_protein_4_isoform_3_[Homo_sapiens]	2.00182636
TRINITY_DN38484_c2_g1	NP_037434.1_eukaryotic_elongation_factor_2_kinase_[Homo_sapiens]	2.00143651
TRINITY_DN37700_c1_g2	NP_892007.1_baculoviral_IAP_repeat-containing_protein_3_[Homo_sapiens]	2.00085935
TRINITY_DN37999_c0_g2	NP_065811.1_E3_ubiquitin-protein_ligase_HECW2_isoform_1_[Homo_sapiens]	2.00025677