

Appendix 1.4 Top 100 Nuclear protein genes

Reference	Human Refseq (Oct. 2017) best blast result	logFC
TRINITY_DN35687_c0_g3	NP_060427.2_ epsin-3_[Homo_sapiens]	7.739201772
TRINITY_DN34976_c0_g2	NP_001092688.1_RAD51-associated_protein_2_isoform_1_[Homo_sa	6.319807324
TRINITY_DN37408_c2_g4	NP_066564.2_histone_acetyltransferase_KAT2A_[Homo_sapiens]	5.823584744
TRINITY_DN31010_c0_g1	NP_001073007.1_X-box-binding_protein_1_isoform_XBP1(S)_[Homo_	5.795770415
TRINITY_DN35549_c5_g1	NP_001265139.1_nuclear_pore_complex_protein_Nup153_isoform_3_	5.708089382
TRINITY_DN35803_c0_g3	NP_208385.1_F-box_only_protein_3_isoform_2_[Homo_sapiens]	5.053490221
TRINITY_DN33607_c4_g1	NP_001013653.1_heterogeneous_nuclear_ribonucleoprotein_C-like_1_	4.995855304
TRINITY_DN30443_c0_g1	NP_065963.1_FLYWCH-type_zinc_finger-containing_protein_1_isoform	4.782061673
TRINITY_DN6757_c0_g1::	NP_115956.3_spermatogenic_leucine_zipper_protein_1_[Homo_sapie	4.748651168
TRINITY_DN37585_c1_g2	NP_056139.1_ribosomal_RNA-processing_protein_8_[Homo_sapiens]	4.743902191
TRINITY_DN33244_c6_g5	NP_003666.1_pre-mRNA-splicing_factor_18_[Homo_sapiens]	4.708797721
TRINITY_DN34857_c0_g1	NP_001269551.1_lysine-specific_demethylase_5C_isoform_3_[Homo_	4.487886935
TRINITY_DN35997_c4_g2	NP_001230368.1_cytospin-B_isoform_1_[Homo_sapiens]	4.421098404
TRINITY_DN30728_c0_g1	NP_009098.3_zinc_finger_MYM-type_protein_6_[Homo_sapiens]	4.295747496
TRINITY_DN37537_c0_g5	NP_079368.3_acid_trehalase-like_protein_1_[Homo_sapiens]	4.206948346
TRINITY_DN33392_c3_g1	NP_001284684.1_helicase_POLQ-like_isoform_2_[Homo_sapiens]	4.203423703
TRINITY_DN38005_c0_g1	NP_001317251.1_homeobox_protein_Hox-B3_isoform_2_[Homo_sapie	4.120218783
TRINITY_DN37619_c1_g2	NP_001070817.1_zinc_finger_protein_682_isoform_2_[Homo_sapiens]	4.031903904
TRINITY_DN29725_c0_g3	NP_001192191.1_DNA_repair_and_recombination_protein_RAD54B_i	3.935293379
TRINITY_DN30120_c0_g1	NP_005581.2_double-strand_break_repair_protein_MRE11_isoform_2_	3.920815946
TRINITY_DN32092_c0_g1	NP_001309342.1_arginine/serine-rich_protein_PNISR_isoform_b_[Horn	3.759329632
TRINITY_DN33152_c0_g2	NP_062427.1_protein_S100-A4_[Homo_sapiens]	3.741022241
TRINITY_DN32915_c0_g1	NP_004810.2_sympleskin_[Homo_sapiens]	3.720165907
TRINITY_DN34875_c0_g1	NP_001254524.1_sentrin-specific_protease_1_[Homo_sapiens]	3.569653664
TRINITY_DN11514_c0_g1	NP_945194.1_transcription_factor_Sp8_isoform_2_[Homo_sapiens]	3.544253878
TRINITY_DN37240_c1_g2	NP_001155894.1_protein_C-ets-1_isoform_3_[Homo_sapiens]	3.471369475
TRINITY_DN2318_c0_g1::	NP_004089.1_homeobox_protein_EMX2_isoform_1_[Homo_sapiens]	3.428207139
TRINITY_DN24193_c0_g1	NP_078956.2_transcription_factor_E2F8_[Homo_sapiens]	3.30243818
TRINITY_DN38259_c4_g3	NP_001035027.1_integrator_complex_subunit_6_isoform_c_[Homo_sa	3.298418863
TRINITY_DN31141_c0_g1	NP_001036037.1_chromodomain-helicase-DNA-binding_protein_2_iso	3.088726769
TRINITY_DN31289_c0_g1	NP_055817.1_F-box_only_protein_21_isoform_2_[Homo_sapiens]	3.047964294
TRINITY_DN26418_c0_g1	NP_057018.1_nucleolar_protein_58_[Homo_sapiens]	2.942144291
TRINITY_DN38117_c4_g1	NP_005639.1_elongin-C_isoform_a_[Homo_sapiens]	2.740306718
TRINITY_DN38114_c4_g1	NP_001275907.1_X-ray_repair_cross-complementing_protein_6_isoform	2.716990928
TRINITY_DN34682_c0_g1	NP_001306924.1_PCNA-interacting_partner_isoform_4_[Homo_sapie	2.716051181
TRINITY_DN34625_c2_g1	NP_064545.1_homeobox_protein_Meis3_isoform_1_[Homo_sapiens]	2.711290517
TRINITY_DN27930_c0_g1	NP_001244097.1_ETS_domain-containing_protein_Elk-1_isoform_b_[H	2.699226015
TRINITY_DN35975_c0_g1	NP_001230967.1_zinc_finger_protein_726_isoform_1_[Homo_sapiens]	2.672981961
TRINITY_DN28887_c0_g1	NP_110420.3_F-box_only_protein_38_isoform_a_[Homo_sapiens]	2.658471299
TRINITY_DN30200_c0_g1	NP_001010877.2_zinc_finger_protein_311_isoform_a_[Homo_sapiens]	2.609599812
TRINITY_DN34505_c2_g3	NP_003212.2_transcription_factor_AP-2-beta_[Homo_sapiens]	2.600511736
TRINITY_DN35604_c7_g2	NP_060696.4_aminopeptidase_RNPEPL1_[Homo_sapiens]	2.577096658
TRINITY_DN35726_c4_g6	NP_001287907.1_Fanconi_anemia_core_complex-associated_protein_	2.565817341
TRINITY_DN37860_c2_g2	NP_002754.2_prospiero_homeobox_protein_1_[Homo_sapiens]	2.538348992
TRINITY_DN36428_c0_g1	NP_937825.2_grainyhead-like_protein_1_homolog_[Homo_sapiens]	2.535654661
TRINITY_DN31692_c0_g1	NP_000042.3_serine-protein_kinase_ATM_[Homo_sapiens]	2.52205899
TRINITY_DN37180_c1_g1	NP_001276950.1_armadillo_repeat-containing_protein_4_isoform_2_[H	2.4991082
TRINITY_DN34505_c2_g3	NP_003212.2_transcription_factor_AP-2-beta_[Homo_sapiens]	2.480904592
TRINITY_DN33639_c0_g1	NP_001287687.1_protein_angel_homolog_2_isoform_c_[Homo_sapie	2.466893872
TRINITY_DN37145_c1_g2	NP_722520.2_zinc_finger_protein_ZFPM1_[Homo_sapiens]	2.449512248
TRINITY_DN34552_c0_g1	NP_660328.2_homeobox_protein_Nkx-2.3_[Homo_sapiens]	2.355659451
TRINITY_DN35492_c3_g2	NP_001278675.1_proto-oncogene_c-Rel_isoform_2_[Homo_sapiens]	2.341642687
TRINITY_DN31328_c0_g1	NP_001035095.1_transcription_elongation_regulator_1_isoform_2_[Hc	2.335639479
TRINITY_DN36204_c0_g1	NP_001166303.1_zinc_finger_protein_300_isoform_3_[Homo_sapiens]	2.329438559
TRINITY_DN37590_c1_g1	NP_001182177.1_aprataxin_isoform_e_[Homo_sapiens]	2.311179402
TRINITY_DN31709_c0_g1	NP_001093870.1_sister_chromatid_cohesion_protein_PDS5_homolog	2.282482049
TRINITY_DN34695_c1_g1	NP_001138555.1_zinc_finger_protein_619_isoform_5_[Homo_sapiens]	2.270364325
TRINITY_DN35962_c1_g3	NP_001153699.1_spatacsin_isoform_2_[Homo_sapiens]	2.257882641
TRINITY_DN36986_c0_g5	NP_001333044.1_zinc_finger_and_BTBDomain-containing_protein_3	2.249676212
TRINITY_DN33288_c3_g1	NP_061915.2_pseudouridylylase_synthase_7_homolog_isoform_b_[Horn	2.246016153
TRINITY_DN34426_c1_g1	NP_055476.3_protein_FAM53B_[Homo_sapiens]	2.211977014

TRINITY_DN36993_c1_g5	NP_001276342.1_histone-lysine_N-methyltransferase_EHMT2_isoform	2.205662842
TRINITY_DN33435_c1_g1	NP_060130.3_transcriptional_repressor_p66-alpha_isoform_2_[Homo	2.192420803
TRINITY_DN32518_c0_g1	NP_001315615.1_amyloid-like_protein_2_isoform_9_precursor_[Homo	2.083186219
TRINITY_DN33806_c0_g1	NP_004255.2_mediator_of_RNA_polymerase_II_transcription_subunit	2.069689834
TRINITY_DN31217_c0_g2	NP_064706.1_max-binding_protein_MNT_[Homo_sapiens]	2.067807043
TRINITY_DN25222_c0_g1	NP_001138897.1_nuclear_receptor_subfamily_1_group_D_member_2	2.063290519
TRINITY_DN31045_c0_g2	NP_001073007.1_X-box-binding_protein_1_isoform_XBP1(S)[Homo	2.056959758
TRINITY_DN31068_c0_g1	NP_631946.1_nucleosome_assembly_protein_1-like_1_isoform_1_[Ho	2.056148533
TRINITY_DN35627_c0_g1	NP_976221.1_vigilin_isoform_a_[Homo_sapiens]	2.050570395
TRINITY_DN34426_c1_g1	NP_055476.3_protein_FAM53B_[Homo_sapiens]	2.003354221

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