

Appendix 2.3 Top 100 Nuclear protein genes

Reference	Human Refseq (Oct. 2017) best blast result	logFC
TRINITY_DN34506_c1_g1	NP_004487.2_hepatocyte_nuclear_factor_3-alpha_[Homo_sapiens]	12.0773757
TRINITY_DN32200_c0_g3	NP_001295023.1_transcription_factor_GATA-4_isoform_3_[Homo_s]	11.03670148
TRINITY_DN32880_c0_g1	NP_003097.1_transcription_factor_SOX-2_[Homo_sapiens]	10.71147493
TRINITY_DN34506_c0_g2	NP_068556.2_hepatocyte_nuclear_factor_3-beta_isoform_1_[Homo]	9.520762002
TRINITY_DN32542_c0_g1	NP_001293108.1_hepatocyte_nuclear_factor_1-alpha_isoform_1_[H]	9.244845335
TRINITY_DN37836_c3_g3	NP_055506.1_intron-binding_protein_aquarius_[Homo_sapiens]	6.642257475
TRINITY_DN33427_c0_g1	NP_006185.1_paired_box_protein_Pax-9_[Homo_sapiens]	6.63838601
TRINITY_DN33651_c7_g2	NP_001508.1_general_transcription_factor_IIH_subunit_4_[Homo_s]	6.093819431
TRINITY_DN36447_c0_g1	NP_942153.1_EF-hand_calcium-binding_domain-containing_protein	5.777162402
TRINITY_DN30999_c0_g1	NP_150285.3_forkhead_box_protein_Q1_[Homo_sapiens]	5.421918325
TRINITY_DN28563_c0_g1	NP_001269551.1_lysine-specific_demethylase_5C_isoform_3_[Homo]	5.370867442
TRINITY_DN30900_c0_g2	NP_001137154.1_calcium-binding_and_coiled-coil_domain-containi	5.370867442
TRINITY_DN37319_c0_g1	NP_001275642.1_protein_kinase_C-binding_protein_NELL1_isoform	4.80323267
TRINITY_DN25576_c0_g1	NP_003510.1_histone_H2B_type_1-L_[Homo_sapiens]	4.80323267
TRINITY_DN35496_c0_g2	NP_073622.2_EF-hand_calcium-binding_domain-containing_protein	4.80323267
TRINITY_DN26781_c0_g1	NP_001287895.1_bromodomain-containing_protein_8_isoform_7_[H]	4.80323267
TRINITY_DN30100_c0_g1	NP_808760.1_histone_H2A.J_[Homo_sapiens]	4.40531725
TRINITY_DN36340_c0_g2	NP_005513.1_homeobox_protein_Hox-A1_isoform_a_[Homo_sapie	4.40851891
TRINITY_DN36373_c0_g3	NP_001229609.1_zinc_finger_protein_729_[Homo_sapiens]	4.008500966
TRINITY_DN32928_c0_g1	NP_705895.1_homeobox_protein_Hox-A3_isoform_a_[Homo_sapie	4.005088403
TRINITY_DN31669_c0_g1	NP_001269678.1_transducin-like_enhancer_protein_4_isoform_2_[H]	3.854001086
TRINITY_DN37391_c0_g2	NP_001257450.1_mediator_of_RNA_polymerase_II_transcription_s	3.854001086
TRINITY_DN85358_c0_g1	NP_003515.1_histone_H2B_type_1-H_[Homo_sapiens]	3.854001086
TRINITY_DN35525_c0_g1	NP_660334.3_zinc_finger_and_BTBDomain-containing_protein_49	3.751039553
TRINITY_DN35570_c2_g4	NP_001026855.2_apoptosis-stimulating_of_p53_protein_2_isoform_	3.636245343
TRINITY_DN33709_c6_g1	NP_071915.1_zinc_finger_matri-type_protein_3_isoform_1_[Homo]	3.627288932
TRINITY_DN38168_c0_g1	NP_001284502.1_transcriptional-regulating_factor_1_isoform_1_[H]	3.463501939
TRINITY_DN38168_c0_g3	NP_005261.2_zinc_finger_protein_GLI2_[Homo_sapiens]	3.384113504
TRINITY_DN37909_c1_g1	NP_001278297.1_zinc_finger_protein_534_isoform_3_[Homo_sapie	3.373480331
TRINITY_DN38168_c0_g1	NP_004626.1_MAP_kinase-activated_protein_kinase_3_[Homo_sap	3.247938614
TRINITY_DN37809_c0_g1	NP_001165375.1_protein_VPRBP_isoform_2_[Homo_sapiens]	3.229496657
TRINITY_DN34145_c0_g4	NP_066363.1_NFX1-type_zinc_finger-containing_protein_1_[Homo_	3.136176374
TRINITY_DN32089_c0_g1	NP_005973.1_homeobox_protein_SIX1_[Homo_sapiens]	3.133426843
TRINITY_DN26996_c0_g1	NP_002136.1_homeobox_protein_Hox-B2_[Homo_sapiens]	3.069983964
TRINITY_DN26209_c0_g1	NP_005309.1_histone_H1.0_[Homo_sapiens]	2.950473501
TRINITY_DN31814_c0_g1	NP_733751.2_histone-lysine_N-methyltransferase_2C_[Homo_sapie	2.950473501
TRINITY_DN34667_c0_g1	NP_001027026.1_LON_peptidase_N-terminal_domain_and_RING_f	2.940831933
TRINITY_DN35749_c4_g2	NP_775322.1_nuclear_factor_of_activated_T-cells_5_isoform_a_[H]	2.938577631
TRINITY_DN30443_c0_g1	NP_065963.1_FLYWCH-type_zinc_finger-containing_protein_1_isof	2.865517448
TRINITY_DN34940_c0_g1	NP_001333488.1_fidgetin-like_protein_1_isoform_2_[Homo_sapiens]	2.830316489
TRINITY_DN11950_c0_g1	NP_113623.1_THAP_domain-containing_protein_2_[Homo_sapiens]	2.732071576
TRINITY_DN36058_c1_g1	NP_055391.2_APOBEC1_complementation_factor_isoform_1_[Homo]	2.714454797
TRINITY_DN33348_c1_g2	NP_066363.1_NFX1-type_zinc_finger-containing_protein_1_[Homo_	2.70898011
TRINITY_DN36373_c0_g6	NP_055445.2_zinc_finger_protein_592_[Homo_sapiens]	2.659310066
TRINITY_DN37145_c1_g2	NP_722520.2_zinc_finger_protein_ZFPM1_[Homo_sapiens]	2.618922555
TRINITY_DN32949_c0_g1	NP_001311310.1_poly(ADP-ribose)_glycohydrolase_isoform_b_[H]	2.539156046
TRINITY_DN35455_c0_g3	NP_055596.3_RB1-inducible_coiled-coil_protein_1_isoform_1_[H]	2.486145666
TRINITY_DN37916_c0_g1	NP_008816.3_zinc_finger_homeobox_protein_3_isoform_A_[Homo_	2.467457233
TRINITY_DN38168_c0_g1	NP_001284502.1_transcriptional-regulating_factor_1_isoform_1_[H]	2.456251305
TRINITY_DN35083_c0_g3	NP_004590.2_sterol_regulatory_element-binding_protein_2_[Homo_	2.378823059
TRINITY_DN37606_c0_g1	NP_000159.3_transcriptional_activator_GLI3_[Homo_sapiens]	2.362375839
TRINITY_DN37445_c0_g1	NP_115593.3_ankyrin_repeat_domain-containing_protein_17_isofor	2.343319036
TRINITY_DN34920_c0_g2	NP_776248.1_homeobox_protein_gooseoid_[Homo_sapiens]	2.336763017
TRINITY_DN34409_c0_g1	NP_060637.1_BTBD/POZ_domain-containing_protein_7_isoform_2_[2.247654443
TRINITY_DN38117_c4_g1	NP_005639.1_elongin-C_isoform_a_[Homo_sapiens]	2.24708672
TRINITY_DN37056_c0_g5	NP_003099.1_transcription_factor_SOX-11_[Homo_sapiens]	2.22155721
TRINITY_DN36340_c2_g2	NP_002500.1_homeobox_protein_Nkx-2.2_[Homo_sapiens]	2.221386481
TRINITY_DN35983_c6_g2	NP_110389.1_class_E_basic_helix-loop-helix_protein_41_[Homo_s]	2.21811335
TRINITY_DN32551_c0_g1	NP_001243404.1_testicular_haploid_expressed_gene_protein-like_	2.198668929
TRINITY_DN37996_c0_g1	NP_001243398.1_histone_acetyltransferase_KAT6B_isoform_3_[H]	2.186357648
TRINITY_DN37852_c1_g8	NP_443161.1_forkhead-associated_domain-containing_protein_1_[H]	2.179358802

TRINITY_DN37141_c0_g4	NP_004464.2_forkhead_box_protein_E1_[Homo_sapiens]	2.152221517
TRINITY_DN32242_c0_g2	NP_001287901.1_ankyrin_repeat_domain-containing_protein_42_is	2.142889717
TRINITY_DN37673_c0_g1	NP_004765.2_mediator_of_RNA_polymerase_II_transcription_subu	2.125386207
TRINITY_DN36508_c3_g2	NP_001316786.1_bromodomain_adjacent_to_zinc_finger_domain_p	2.113958992
TRINITY_DN34449_c6_g1	NP_658988.2_Smith-Magenis_syndrome_chromosomal_region_can	2.109082569
TRINITY_DN6757_c0_g1::	NP_115956.3_spermatogenic_leucine_zipper_protein_1_[Homo_sap	2.089199288
TRINITY_DN38358_c1_g2	NP_001316786.1_bromodomain_adjacent_to_zinc_finger_domain_p	2.057937853
TRINITY_DN37194_c0_g1	NP_149062.1_nesprin-1_isoform_2_[Homo_sapiens]	2.021129042
TRINITY_DN36821_c0_g1	NP_001245385.1_TNFAIP3-interacting_protein_1_isoform_6_[Homo	2.019987766
TRINITY_DN37464_c0_g1	NP_001191330.1_E3_ubiquitin-protein_ligase_XIAP_[Homo_sapien	2.015353205
TRINITY_DN35913_c0_g2	NP_055401.1_hormonally_up-regulated_neu_tumor-associated_kina	1.998897328
TRINITY_DN37979_c0_g1	NP_055921.2_helicase_ARIP4_isoform_a_[Homo_sapiens]	1.998136143
TRINITY_DN33693_c0_g1	NP_005474.2_chromatin_assembly_factor_1_subunit_A_[Homo_sap	1.997716555
TRINITY_DN38095_c1_g1	NP_056070.1_E3_ubiquitin-protein_ligase_UBR2_isoform_1_[Homo	1.9973496
TRINITY_DN38168_c0_g1	NP_277037.1_transcriptional-regulating_factor_1_isoform_2_[Homo	1.996980386
TRINITY_DN33961_c0_g1	NP_056136.2_CREB-regulated_transcription_coactivator_1_isoform	1.996859705
TRINITY_DN35899_c6_g1	NP_056986.2_E3_ubiquitin-protein_ligase_UBR5_isoform_1_[Homo	1.996225792
TRINITY_DN37548_c0_g2	NP_079003.2_leucine-rich_repeat-containing_protein_31_isoform_1	1.996154715
TRINITY_DN37263_c0_g4	NP_004625.2_peregrin_isoform_2_[Homo_sapiens]	1.994631109
TRINITY_DN37983_c0_g3	NP_116208.3_zinc_finger_protein_341_isoform_2_[Homo_sapiens]	1.993404055
TRINITY_DN32177_c0_g1	NP_201591.2_nuclear_receptor_subfamily_6_group_A_member_1_	1.992562932
TRINITY_DN38095_c1_g1	NP_056070.1_E3_ubiquitin-protein_ligase_UBR2_isoform_1_[Homo	1.989967119
TRINITY_DN30905_c0_g1	NP_116216.2_protein_atonal_homolog_8_[Homo_sapiens]	1.987561081
TRINITY_DN32459_c0_g1	NP_001955.1_early_growth_response_protein_1_[Homo_sapiens]	1.986981393
TRINITY_DN37795_c5_g1	NP_877398.1_1-phosphatidylinositol_4,5-bisphosphate_phosphodie	1.98660998
TRINITY_DN33159_c0_g1	NP_005240.3_forkhead_box_protein_G1_[Homo_sapiens]	1.984772462
TRINITY_DN38273_c0_g5	NP_073577.3_homeodomain-interacting_protein_kinase_2_isoform	1.984515327
TRINITY_DN35606_c1_g1	NP_006480.2_RNA-binding_protein_Nova-1_isoform_2_[Homo_sap	1.984160926
TRINITY_DN37372_c0_g1	NP_060024.2_poly_[ADP-ribose]_polymerase_14_[Homo_sapiens]	1.983589586
TRINITY_DN36755_c0_g1	NP_001307148.1_U2_snRNP-associated_SURP_motif-containing_p	1.982652474
TRINITY_DN33878_c1_g1	NP_005333.2_high_mobility_group_protein_B3_isoform_a_[Homo_s	1.98186907
TRINITY_DN38060_c0_g2	NP_000544.2_Werner_syndrome_ATP-dependent_helicase_[Homo	1.981626712
TRINITY_DN35293_c1_g3	NP_208382.1_serine/threonine-protein_kinase_DCLK3_[Homo_sapi	1.961355641
TRINITY_DN35720_c0_g1	NP_060113.2_MBT_domain-containing_protein_1_[Homo_sapiens]	1.960762967
TRINITY_DN35371_c1_g1	NP_005220.2_ETS_domain-containing_protein_Elk-1_isoform_a_[H	1.94012452
TRINITY_DN36518_c0_g1	NP_001317534.1_transcription_factor_4_isoform_p_[Homo_sapiens	1.929898203
TRINITY_DN34552_c0_g1	NP_660328.2_homeobox_protein_Nkx-2.3_[Homo_sapiens]	1.929421012
TRINITY_DN32045_c0_g1	NP_001095124.1_CXXC-type_zinc_finger_protein_1_isoform_1_[Hc	1.92662452
TRINITY_DN33990_c0_g1	NP_942559.1_prickle-like_protein_2_[Homo_sapiens]	1.925629316