

## Appendix 2.4 Top 100 secreted protein genes

Reference	Human Refseq (Oct. 2017) best blast result	logFC
TRINITY_DN34136_c2_g1	NP_002762.2_trypsin-3_isoform_2_preproprotein_[Homo_sapiens]	9.520762002
TRINITY_DN35303_c1_g1	NP_001020371.3_chymotrypsinogen_B2_precursor_[Homo_sapiens]	9.17936759
TRINITY_DN36040_c0_g2	NP_002761.1_trypsin-2_isoform_2_preproprotein_[Homo_sapiens]	8.561790181
TRINITY_DN37936_c6_g1	NP_001897.4_chymotrypsinogen_B_isoform_1_precursor_[Homo_sapiens]	7.844366361
TRINITY_DN34386_c1_g1	NP_001862.2_carboxypeptidase_B_preproprotein_[Homo_sapiens]	7.344479267
TRINITY_DN37558_c0_g2	NP_071920.1_hedgehog-interacting_protein_precursor_[Homo_sapiens]	7.283464627
TRINITY_DN37769_c0_g2	NP_001990.2_fibrillin-2_precursor_[Homo_sapiens]	7.083219168
TRINITY_DN35694_c0_g1	NP_001926.2_dipeptidyl_peptidase_4_[Homo_sapiens]	7.009778441
TRINITY_DN29322_c0_g2	NP_001862.2_carboxypeptidase_B_preproprotein_[Homo_sapiens]	6.850630218
TRINITY_DN31752_c0_g1	NP_002760.1_trypsin-1_preproprotein_[Homo_sapiens]	6.76394845
TRINITY_DN35454_c1_g3	NP_115822.1_multiple_epidermal_growth_factor-like_domains_protein_	6.76394845
TRINITY_DN38364_c1_g1	NP_001165910.1_poly(U)-specific_endoribonuclease_isoform_1_precur	6.573198505
TRINITY_DN34477_c1_g1	NP_001160163.1_dual_specificity_protein_kinase_TTK_isoform_2_[Hor	6.158939371
TRINITY_DN36660_c0_g1	NP_068569.2_acidic_mammalian_chitinase_isoform_a_[Homo_sapiens]	6.093819431
TRINITY_DN34477_c1_g1	NP_001177638.1_collagen_alpha-1(XI)_chain_isoform_E_preproprotein	6.023866215
TRINITY_DN31780_c0_g1	NP_002382.1_midkine_isoform_a_precursor_[Homo_sapiens]	5.777162402
TRINITY_DN33354_c0_g1	NP_005214.2_deoxyribonuclease-1_precursor_[Homo_sapiens]	5.777162402
TRINITY_DN36343_c0_g1	NP_061978.6_tenascin-X_isoform_1_precursor_[Homo_sapiens]	5.615521826
TRINITY_DN28413_c0_g2	NP_443098.3_ADAMTS-like_protein_1_isoform_2_precursor_[Homo_sa	5.588270616
TRINITY_DN30387_c0_g1	NP_067639.1_retinoid-inducible_serine_carboxypeptidase_precursor_[H	5.370867442
TRINITY_DN32751_c0_g2	NP_006220.1_inactive_pancreatic_lipase-related_protein_1_precursor_	5.370867442
TRINITY_DN32907_c0_g3	NP_940978.2_agrin_isoform_2_precursor_[Homo_sapiens]	5.370867442
TRINITY_DN36655_c0_g2	NP_001859.1_carboxypeptidase_A1_preproprotein_[Homo_sapiens]	5.370867442
TRINITY_DN36041_c1_g1	NP_001278744.1_hemicentin-2_precursor_[Homo_sapiens]	5.370867442
TRINITY_DN34414_c1_g3	NP_003053.1_slit_homolog_3_protein_isoform_2_precursor_[Homo_sap	4.869132902
TRINITY_DN36101_c2_g1	NP_001401.2_multiple_epidermal_growth_factor-like_domains_protein_	4.80323267
TRINITY_DN35453_c2_g3	NP_004029.2_alpha-amylase_1_precursor_[Homo_sapiens]	4.80323267
TRINITY_DN37420_c1_g2	NP_054860.1_contactin-associated_protein-like_2_precursor_[Homo_sa	4.80323267
TRINITY_DN33168_c0_g1	NP_001020371.3_chymotrypsinogen_B2_precursor_[Homo_sapiens]	4.80323267
TRINITY_DN32772_c1_g1	NP_001020371.3_chymotrypsinogen_B2_precursor_[Homo_sapiens]	4.80323267
TRINITY_DN38388_c1_g1	NP_001990.2_fibrillin-2_precursor_[Homo_sapiens]	4.80323267
TRINITY_DN29174_c0_g1	NP_001020371.3_chymotrypsinogen_B2_precursor_[Homo_sapiens]	4.80323267
TRINITY_DN36969_c0_g1	NP_001139478.1_insulin-like_growth_factor-binding_protein_complex_a	4.80323267
TRINITY_DN36343_c0_g5	fibrillin-2_C-terminal_peptide	4.40531725
TRINITY_DN36343_c0_g1	NP_061978.6_tenascin-X_isoform_1_precursor_[Homo_sapiens]	4.291409166
TRINITY_DN31135_c0_g1	NP_003803.1_disintegrin_and_metalloproteinase_domain-containing_pr	4.207850911
TRINITY_DN38280_c1_g5	NP_002449.2_mucin-5B_precursor_[Homo_sapiens]	4.177773246
TRINITY_DN36336_c0_g1	NP_001926.2_dipeptidyl_peptidase_4_[Homo_sapiens]	3.974985375
TRINITY_DN37885_c0_g2	NP_000578.2_complement_component_C7_precursor_[Homo_sapiens]	3.928791493
TRINITY_DN37397_c2_g3	NP_001305870.1_tissue_factor_pathway_inhibitor_isoform_b_precursor	3.870624943
TRINITY_DN32803_c0_g1	NP_114141.2_hemicentin-1_precursor_[Homo_sapiens]	3.867693509
TRINITY_DN30872_c0_g1	NP_001316719.1_glutathione_peroxidase_3_isoform_2_precursor_[Hor	3.854001086
TRINITY_DN33751_c0_g3	NP_113649.1_cysteine-rich_secretory_protein_LCCL_domain-containing	3.854001086
TRINITY_DN23108_c0_g1	NP_006120.1_bone_morphogenetic_protein_1_isoform_3_precursor_[H	3.854001086
TRINITY_DN31854_c0_g1	NP_001177130.1_carboxylesterase_4A_isoform_3_[Homo_sapiens]	3.854001086
TRINITY_DN38090_c1_g2	NP_699197.3_sushi_von_Willebrand_factor_type_A_EGF_and_pentra	3.854001086
TRINITY_DN30729_c0_g1	NP_003801.1_tumor_necrosis_factor_ligand_superfamily_member_10_	3.814831268
TRINITY_DN32803_c0_g1	NP_114141.2_hemicentin-1_precursor_[Homo_sapiens]	3.62438992
TRINITY_DN33767_c0_g1	NP_114141.2_hemicentin-1_precursor_[Homo_sapiens]	3.521902402
TRINITY_DN30940_c0_g3	NP_694953.2_cartilage_intermediate_layer_protein_2_precursor_[Homo	3.401482365
TRINITY_DN29388_c0_g1	NP_001638.1_apolipoprotein_D_precursor_[Homo_sapiens]	3.372267667
TRINITY_DN35214_c0_g3	NP_066548.2_latent-transforming_growth_factor_beta-binding_protein_1	3.339979779
TRINITY_DN36160_c1_g4	NP_001243034.1_protein_Wnt-5a_isoform_2_precursor_[Homo_sapiens]	3.275095913
TRINITY_DN30940_c0_g2	NP_694953.2_cartilage_intermediate_layer_protein_2_precursor_[Homo	3.121231441
TRINITY_DN36672_c0_g2	NP_002760.1_trypsin-1_preproprotein_[Homo_sapiens]	3.056764237
TRINITY_DN27537_c0_g1	NP_542181.1_WAP_four-disulfide_core_domain_protein_3_precursor_	3.028403005
TRINITY_DN36982_c1_g3	NP_001139478.1_insulin-like_growth_factor-binding_protein_complex_a	2.934061654
TRINITY_DN33974_c1_g2	NP_004377.2_neurocan_core_protein_precursor_[Homo_sapiens]	2.910710677
TRINITY_DN31182_c0_g1	NP_060741.3_threonine_synthase-like_2_isoform_1_[Homo_sapiens]	2.89640192
TRINITY_DN38384_c0_g1	NP_775862.3_otogelin-like_protein_precursor_[Homo_sapiens]	2.768149842
TRINITY_DN34740_c0_g2	NP_114141.2_hemicentin-1_precursor_[Homo_sapiens]	2.751056543

TRINITY_DN38245_c0_g2	NP_598377.4_A_disintegrin_and_metalloproteinase_with_thrombospon	2.742855861
TRINITY_DN38157_c0_g3	NP_940857.2_SCO-spondin_precursor_[Homo_sapiens]	2.618542731
TRINITY_DN36302_c0_g1	NP_970615.2_acidic_mammalian_chitinase_isoform_c_precursor_[Homo	2.585188953
TRINITY_DN32036_c0_g1	NP_005176.1_calmodulin-like_protein_3_[Homo_sapiens]	2.56779387
TRINITY_DN37306_c0_g2	NP_001291288.1_mucin-5AC_precursor_[Homo_sapiens]	2.56779387
TRINITY_DN27537_c0_g1	NP_542181.1_WAP_four-disulfide_core_domain_protein_3_precursor_[	2.564252507
TRINITY_DN34947_c2_g2	NP_060299.4_cat_eye_syndrome_critical_region_protein_5_isoform_1_	2.438018582
TRINITY_DN38413_c2_g3	NP_001036009.1_latent-transforming_growth_factor_beta-binding_prot	2.437975016
TRINITY_DN35515_c0_g1	NP_004123.1_hyaluronan-binding_protein_2_isoform_1_preproprotein_	2.430293496
TRINITY_DN34411_c0_g1	NP_444514.1_WAP_Kazal_immunoglobulin_Kunitz_and_NTR_domain	2.409898716
TRINITY_DN34937_c5_g2	NP_001987.2_fibulin-1_isoform_C_precursor_[Homo_sapiens]	2.384661004
TRINITY_DN37030_c2_g2	NP_001311024.1_collectin-10_isoform_2_[Homo_sapiens]	2.381190215
TRINITY_DN34789_c0_g1	NP_001191.1_bone_morphogenetic_protein_2_preproprotein_[Homo_sa	2.37342103
TRINITY_DN36672_c0_g1	NP_061325.1_extracellular_sulfatase_Sulf-2_isoform_a_precursor_[H	2.333848063
TRINITY_DN27102_c0_g2	NP_110414.1_complement_factor_H-related_protein_5_precursor_[H	2.328554958
TRINITY_DN38194_c0_g5	NP_001837.2_collagen_alpha-2(IV)_chain_preproprotein_[Homo_sapie	2.277038122
TRINITY_DN31139_c0_g1	NP_037504.1_gremlin-1_isoform_1_precursor_[Homo_sapiens]	2.275658412
TRINITY_DN38447_c2_g1	NP_002281.3_laminin_subunit_alpha-4_isoform_2_precursor_[Homo_sa	2.241438889
TRINITY_DN38245_c0_g2	NP_598377.4_A_disintegrin_and_metalloproteinase_with_thrombospon	2.237549213
TRINITY_DN34937_c5_g2	NP_001987.2_fibulin-1_isoform_C_precursor_[Homo_sapiens]	2.223827566
TRINITY_DN36182_c1_g1	NP_690850.2_collagen_alpha-1(XXIV)_chain_precursor_[Homo_sapiens]	2.213581365
TRINITY_DN36442_c0_g2	NP_849144.2_immunoglobulin_superfamily_member_10_isoform_1_pre	2.198874029
TRINITY_DN34358_c0_g1	NP_114141.2_hemecentin-1_precursor_[Homo_sapiens]	2.196960228
TRINITY_DN38413_c2_g3	NP_003564.2_latent-transforming_growth_factor_beta-binding_protein_4	2.166717895
TRINITY_DN36786_c0_g2	NP_001846.3_collagen_alpha-1(XV)_chain_precursor_[Homo_sapiens]	2.152421167
TRINITY_DN29258_c0_g1	NP_001309108.1_contactin-associated_protein-like_4_isoform_4_precu	2.141882852
TRINITY_DN33325_c0_g1	NP_001138378.1_C-type_lectin_domain_family_4_member_M_isoform_	2.119187033
TRINITY_DN31814_c0_g1	NP_001257438.1_chitotriosidase-1_isoform_3_precursor_[Homo_sapie	2.111987161
TRINITY_DN26085_c0_g1	NP_114141.2_hemecentin-1_precursor_[Homo_sapiens]	2.069865181
TRINITY_DN27689_c0_g1	NP_955387.1_A_disintegrin_and_metalloproteinase_with_thrombospon	2.068636642
TRINITY_DN37308_c0_g3	NP_001157961.1_disintegrin_and_metalloproteinase_domain-containing	2.043411902
TRINITY_DN37907_c1_g1	NP_005551.3_laminin_subunit_alpha-5_precursor_[Homo_sapiens]	2.011618869
TRINITY_DN30876_c0_g1	NP_001295163.1_glutamate-rich_protein_6_isoform_2_[Homo_sapiens]	1.985840165
TRINITY_DN38245_c0_g1	NP_940857.2_SCO-spondin_precursor_[Homo_sapiens]	1.985646085
TRINITY_DN31693_c0_g1	NP_036597.1_tolloid-like_protein_2_precursor_[Homo_sapiens]	1.985501246
TRINITY_DN37308_c0_g2	NP_003465.3_disintegrin_and_metalloproteinase_domain-containing_pr	1.985156061
TRINITY_DN37407_c0_g1	NP_699197.3_sushi_von_Willebrand_factor_type_A_EGF_and_pentra	1.947606432
TRINITY_DN37664_c0_g3	NP_055087.2_A_disintegrin_and_metalloproteinase_with_thrombospon	1.939794789
TRINITY_DN37997_c0_g2	NP_009224.2_complement_C4-A_isoform_1_preproprotein_[Homo_sap	1.938710564