
INRICH v.1.0 : Mon Dec 1 11:23:35 2014
http://atgu.mgh.harvard.edu/inrich

project-title (-o) : 5-1000_go_1000Kperm_canfam3.hg19_gwas
test-regions (-a) : gwasregions_canfam3new.int
gene-list (-g) : canfam3.hg19.genes.map
background-genes (-b) : --no background set--
range-file (-x) : --no ranges--
target-file (-t) : go.test.set
target size-filter (-i,j) : 5..1000
min-obs threshold (-z) : 2
test-type (-l) : INTERVALS
top-N-regions (-n) : --all--
kb-window (-w) : 0
map-file (-m) : my_markers_canfam3.snps
match-density (-d) : 0.1
pre-compute (-c) : YES
match-genes (-e) : YES
num-replicates (-r) : 1000000
num-bootstraps (-q) : 1000000
random-seed (-f) : 700081734
display-p (-p) : 0.05

1768.89Mb total sequence length on 26 chromosomes
read 133695 map positions
read 13878 reference genes
read 11197 unique genes/targets, in 9086 groups
118754 total gene/group pairs
6549 genes/targets not found in main gene-list
after size filters, 2684 groups remaining
read 21 intervals
18 test elements on gene regions
3 non-genic test elements dropped

After merging, 11883 non-overlapping reference genes
After merging, 10204 non-overlapping genes in target sets
After merging, 18 non-overlapping intervals

133695 SNP counts assigned
Precomputing acceptable positions 18
1000000 first-pass permutations (completed)
1000000 second-pass permutations (completed)

Total of 18 intervals tested for 2684 target sets

Proportion unplaced/self-placed interval/permutations = 0.000163056

T_Size Int_No Empirical_P Corrected_P Target

160 4 1.1e-05 0.00617299 G0:0000122

| | | | | | | |
|--|-----|---|-------------|------------|------------|-------------|
| negative_regulation_of_transcription_from_RNA_polymerase_II_promoter | 44 | 3 | 9.99999e-06 | 0.00556999 | G0:0001558 | |
| regulation_of_cell_growth | 52 | 2 | 0.000348 | 0.0950739 | G0:0002576 | |
| platelet_degranulation | 79 | 2 | 0.0012 | 0.185405 | G0:0003690 | double- |
| stranded_DNA_binding | 622 | 6 | 3e-06 | 0.00182 | G0:0003700 | sequence- |
| specific_DNA_binding_transcription_factor_activity | 198 | 2 | 0.020267 | 0.582399 | G0:0003779 | |
| actin_binding | 75 | 2 | 0.001655 | 0.219867 | G0:0004222 | |
| metalloendopeptidase_activity | 301 | 2 | 0.023215 | 0.609116 | G0:0005488 | binding |
| | 909 | 3 | 0.047166 | 0.706319 | G0:0005524 | ATP_binding |
| | 345 | 2 | 0.030622 | 0.642941 | G0:0005575 | |
| cellular_component | 166 | 2 | 0.011648 | 0.508221 | G0:0005578 | |
| proteinaceous_extracellular_matrix | 499 | 3 | 0.003443 | 0.308913 | G0:0005615 | |
| extracellular_space | 498 | 3 | 0.002715 | 0.281437 | G0:0005654 | nucleoplasm |
| | 124 | 3 | 0.000119 | 0.045301 | G0:0005667 | |
| transcription_factor_complex | 697 | 4 | 0.001055 | 0.172897 | G0:0005730 | nucleolus |
| | 113 | 2 | 0.00338 | 0.307749 | G0:0005813 | centrosome |
| | 439 | 3 | 0.00865799 | 0.456225 | G0:0005856 | |
| cytoskeleton | 177 | 2 | 0.004555 | 0.35498 | G0:0005975 | |
| carbohydrate_metabolic_process | 60 | 2 | 0.000428 | 0.104867 | G0:0006006 | |
| glucose_metabolic_process | 557 | 5 | 1.6e-05 | 0.00879199 | G0:0006355 | |
| regulation_of_transcription,_DNA-dependent | 268 | 2 | 0.016238 | 0.541168 | G0:0006508 | proteolysis |
| | 364 | 3 | 0.002442 | 0.264807 | G0:0006915 | apoptosis |
| | 19 | 2 | 8.39999e-05 | 0.034121 | G0:0007015 | |
| actin_filament_organization | 189 | 2 | 0.013636 | 0.521072 | G0:0007264 | |
| small_GTPase_mediated_signal_transduction | 613 | 3 | 0.012557 | 0.516034 | G0:0007275 | |
| multicellular_organismal_development | 56 | 2 | 0.001235 | 0.187451 | G0:0007389 | |
| pattern_specification_process | 230 | 3 | 0.00111 | 0.175702 | G0:0007596 | |
| blood_coagulation | 145 | 2 | 0.00613999 | 0.407546 | G0:0008134 | |
| transcription_factor_binding | 293 | 2 | 0.019572 | 0.577468 | G0:0008233 | |
| peptidase_activity | 64 | 2 | 0.000601999 | 0.124557 | G0:0009653 | |
| anatomical_structure_morphogenesis | 70 | 2 | 0.000727999 | 0.137657 | G0:0014070 | |
| response_to_organic_cyclic_substance | | | | | | |

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|---|---|-------------|-----------|------------------------|
| 51 | 2 | 0.001313 | 0.19455 | G0:0016477 |
| cell_migration | | | | |
| 263 | 2 | 0.011199 | 0.494678 | G0:0016491 |
| oxidoreductase_activity | | | | |
| 134 | 2 | 0.00593299 | 0.398216 | G0:0016568 |
| chromatin_modification | | | | |
| 38 | 2 | 0.000314 | 0.0893319 | G0:0016702 |
| oxidoreductase_activity,_acting_on_single_donors_with_incorporation_of_molecular_oxygen,_incorporation_of_two_atoms_of_oxygen | | | | |
| 583 | 4 | 0.001131 | 0.177593 | G0:0016787 |
| hydrolase_activity | | | | |
| 67 | 2 | 0.000477 | 0.10964 | G0:0016829 |
| lyase_activity | | | | |
| 80 | 2 | 0.00546999 | 0.382459 | G0:0030036 |
| actin_cytoskeleton_organization | | | | |
| 39 | 2 | 0.000805999 | 0.146665 | G0:0030097 hemopoiesis |
| 319 | 2 | 0.030068 | 0.638468 | G0:0030154 |
| cell_differentiation | | | | |
| 157 | 3 | 0.000547999 | 0.119056 | G0:0030168 |
| platelet_activation | | | | |
| 192 | 2 | 0.004723 | 0.359966 | G0:0030528 |
| transcription_regulator_activity | | | | |
| 26 | 2 | 8.49999e-05 | 0.034596 | G0:0031093 |
| platelet_alpha_granule_lumen | | | | |
| 48 | 3 | 3e-06 | 0.00182 | G0:0032355 |
| response_to_estradiol_stimulus | | | | |
| 67 | 2 | 0.000601999 | 0.124557 | G0:0032496 |
| response_to_lipopolysaccharide | | | | |
| 37 | 2 | 0.000151 | 0.0549709 | G0:0034097 |
| response_to_cytokine_stimulus | | | | |
| 112 | 2 | 0.00452 | 0.352829 | G0:0043234 |
| protein_complex | | | | |
| 321 | 3 | 0.001001 | 0.168941 | G0:0043565 sequence- |
| specific_DNA_binding | | | | |
| 180 | 2 | 0.037092 | 0.676482 | G0:0045202 synapse |
| 106 | 2 | 0.00927499 | 0.466609 | G0:0051056 |
| regulation_of_small_GTPase_mediated_signal_transduction | | | | |
| 321 | 2 | 0.01498 | 0.529507 | G0:0055114 oxidation- |
| reduction_process | | | | |

| Target_P_Threshold | Uniq_Gene_No_in_Targets | Significance |
|--------------------|-------------------------|--------------|
| 0.001 | 20 | 9.99999e-07 |
| 0.01 | 36 | 9.99999e-07 |
| 0.05 | 39 | 9.99999e-07 |

Writing output to
5-1000_go_1000Kperm_canfam3.hg19_gwas.out.inrich ...

I. Main Analysis Results

| _01 | T_TARG | N_INT | P | PCORR | LOW_WARN | UNSH | TARGET |
|---------|--|-------|---------|------------|----------|----------|------------|
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000038 | Very_long-chain_fatty_acid_metabolic_process | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000045 | Autophagic_vacuole_assembly | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000049 | TRNA_binding | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000050 | Urea_cycle | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000060 | Protein_import_into_nucleus,_translocation | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000062 | Acyl-CoA_binding | | | | | | |
| _01 | 83 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0000075 | Cell_cycle_checkpoint | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000077 | DNA_damage_checkpoint | | | | | | |
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000079 | Regulation_of_cyclin-dependent_protein_kinase_activity | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000080 | G1_phase_of_mitotic_cell_cycle | | | | | | |
| _01 | 93 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000082 | G1/S_transition_of_mitotic_cell_cycle | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000083 | Regulation_of_transcription_involved_in_G1/S_phase_of_mitotic_cell_cycle | | | | | | |
| _01 | 74 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000084 | S_phase_of_mitotic_cell_cycle | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000085 | G2_phase_of_mitotic_cell_cycle | | | | | | |
| _01 | 65 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0000086 | G2/M_transition_of_mitotic_cell_cycle | | | | | | |
| _01 | 48 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000087 | M_phase_of_mitotic_cell_cycle | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000118 | Histone_deacetylase_complex | | | | | | |
| _01 | 160 | 4 | 1.1e-05 | 0.00617299 | 0 | 0.000205 | G0:0000122 |
| 0000122 | Negative_regulation_of_transcription_from_RNA_polymerase_II_promoter | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000123 | Histone_acetyltransferase_complex | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000132 | Establishment_of_mitotic_spindle_orientation | | | | | | |
| _01 | 259 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0000139 | Golgi_membrane | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000145 | Exocyst | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000146 | Microfilament_motor_activity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |

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|---------|---|---|---|---|---|----------|--|-----|
| 0000149 | SNARE_binding | | | | | | | |
| _01 | 38 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000151 | Ubiquitin_ligase_complex | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000155 | Two-component_sensor_activity | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000159 | Protein_phosphatase_type_2A_complex | | | | | | | |
| _01 | 32 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000165 | MAPKKK_cascade | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000175 | 3'-5'-exoribonuclease_activity | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000178 | Exosome_(RNase_complex) | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000183 | Chromatin_silencing_at_rDNA | | | | | | | |
| _01 | 23 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000184 | Nuclear-transcribed_mRNA_catabolic_process,_nonsense-mediated_decay | | | | | | | |
| _01 | 30 | 1 | 1 | 1 | 0 | 5e-05 | | GO: |
| 0000186 | Activation_of_MAPKK_activity | | | | | | | |
| _01 | 59 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000187 | Activation_of_MAPK_activity | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000188 | Inactivation_of_MAPK_activity | | | | | | | |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000209 | Protein_polyubiquitination | | | | | | | |
| _01 | 54 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000216 | M/G1_transition_of_mitotic_cell_cycle | | | | | | | |
| _01 | 22 | 1 | 1 | 1 | 0 | 5e-05 | | GO: |
| 0000226 | Microtubule_cytoskeleton_organization | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000228 | Nuclear_chromosome | | | | | | | |
| _01 | 44 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000236 | Mitotic_prometaphase | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000242 | Pericentriolar_material | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000245 | Spliceosome_assembly | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000266 | Mitochondrial_fission | | | | | | | |
| _01 | 193 | 1 | 1 | 1 | 0 | 0.000423 | | GO: |
| 0000278 | Mitotic_cell_cycle | | | | | | | |
| _01 | 106 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000287 | Magnesium_ion_binding | | | | | | | |
| _01 | 32 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000288 | Nuclear-transcribed_mRNA_catabolic_process,_deadenylation-dependent_decay | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000289 | Nuclear-transcribed_mRNA_poly(A)_tail_shortening | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000299 | Integral_to_membrane_of_membrane_fraction | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0000302 | Response_to_reactive_oxygen_species | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |

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|---------|--|---|---|---|---|---------|-----|--|
| 0000307 | Cyclin-dependent_protein_kinase_holoenzyme_complex | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000346 | Transcription_export_complex | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000375 | RNA_splicing,_via_transesterification_reactions | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000381 | Regulation_of_alternative_nuclear_mRNA_splicing,_via_spliceosome | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000387 | Spliceosomal_snRNP_assembly | | | | | | | |
| _01 | 89 | 1 | 1 | 1 | 0 | 5.2e-05 | G0: | |
| 0000398 | Nuclear_mRNA_splicing,_via_spliceosome | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000405 | Bubble_DNA_binding | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000421 | Autophagic_vacuole_membrane | | | | | | | |
| _01 | 41 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000502 | Proteasome_complex | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000718 | Nucleotide_excision_repair,_DNA_damage_removal | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000722 | Telomere_maintenance_via_recombination | | | | | | | |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000723 | Telomere_maintenance | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000724 | Double-strand_break_repair_via_homologous_recombination | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000731 | DNA_synthesis_involved_in_DNA_repair | | | | | | | |
| _01 | 32 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000775 | Chromosome,_centromeric_region | | | | | | | |
| _01 | 31 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000776 | Kinetochores | | | | | | | |
| _01 | 35 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000777 | Condensed_chromosome_kinetochores | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000780 | Condensed_nuclear_chromosome,_centromeric_region | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000781 | Chromosome,_telomeric_region | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000783 | Nuclear_telomere_cap_complex | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000784 | Nuclear_chromosome,_telomeric_region | | | | | | | |
| _01 | 62 | 1 | 1 | 1 | 0 | 7.4e-05 | G0: | |
| 0000785 | Chromatin | | | | | | | |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000786 | Nucleosome | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000790 | Nuclear_chromatin | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000793 | Condensed_chromosome | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000794 | Condensed_nuclear_chromosome | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0000795 | Synaptonemal_complex | | | | | | | |

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|-------------|--|---|-------------|------------|---|---------|-----|
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000902 | Cell_morphogenesis | | | | | | |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000910 | Cytokinesis | | | | | | |
| _01 | 36 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000922 | Spindle_pole | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0000932 | Cytoplasmic_mRNA_processing_body | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001302 | Replicative_cell_aging | | | | | | |
| _01 | 82 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001501 | Skeletal_system_development | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001502 | Cartilage_condensation | | | | | | |
| _01 | 41 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001503 | Ossification | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001508 | Regulation_of_action_potential | | | | | | |
| _01 | 9 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: |
| 0001516 | Prostaglandin_biosynthetic_process | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001518 | Voltage-gated_sodium_channel_complex | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001522 | Pseudouridine_synthesis | | | | | | |
| _01 | 86 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001525 | Angiogenesis | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001530 | Lipopolysaccharide_binding | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001533 | Cornified_envelope | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001539 | Ciliary_or_flagellar_motility | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001540 | Beta-amyloid_binding | | | | | | |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001541 | Ovarian_follicle_development | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001542 | Ovulation_from_ovarian_follicle | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001553 | Luteinization | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001556 | Oocyte_maturation | | | | | | |
| _01 | 44 | 3 | 9.99999e-06 | 0.00556999 | 0 | 0 | |
| 5.53333e-05 | G0:0001558 Regulation_of_cell_growth | | | | | | |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001568 | Blood_vessel_development | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001569 | Patterning_of_blood_vessels | | | | | | |
| _01 | 33 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001570 | Vasculogenesis | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001578 | Microtubule_bundle_formation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001609 | Adenosine_receptor_activity,_G-protein_coupled | | | | | | |

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|---------|---|---|---|---|---|----------|-----|
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001614 | Purinergic_nucleotide_receptor_activity | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001619 | Lysosphingolipid_and_lyso phosphatidic_acid_receptor_activity | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001649 | Osteoblast_differentiation | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001656 | Metanephros_development | | | | | | |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001657 | Ureteric_bud_development | | | | | | |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001658 | Branching_involved_in_ureteric_bud_morphogenesis | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001659 | Temperature_homeostasis | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001662 | Behavioral_fear_response | | | | | | |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001664 | G-protein-coupled_receptor_binding | | | | | | |
| _01 | 101 | 1 | 1 | 1 | 0 | 0.000339 | G0: |
| 0001666 | Response_to_hypoxia | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001669 | Acrosomal_vesicle | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001673 | Male_germ_cell_nucleus | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001676 | Long-chain_fatty_acid_metabolic_process | | | | | | |
| _01 | 103 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001701 | In_uterus_embryonic_development | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001702 | Gastrulation_with_mouth_forming_second | | | | | | |
| _01 | 17 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0001707 | Mesoderm_formation | | | | | | |
| _01 | 9 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0001708 | Cell_fate_specification | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001709 | Cell_fate_determination | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001725 | Stress_fiber | | | | | | |
| _01 | 40 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001726 | Ruffle | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001741 | XY_body | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001750 | Photoreceptor_outer_segment | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001755 | Neural_crest_cell_migration | | | | | | |
| _01 | 32 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001756 | Somitogenesis | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001759 | Organ_induction | | | | | | |
| _01 | 36 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001764 | Neuron_migration | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001772 | Immunological_synapse | | | | | | |

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| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001782 | B_cell_homeostasis | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001784 | Phosphotyrosine_binding | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001786 | Phosphatidylserine_binding | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001816 | Cytokine_production | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001817 | Regulation_of_cytokine_production | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001819 | Positive_regulation_of_cytokine_production | | | | | | |
| _01 | 48 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001822 | Kidney_development | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001823 | Mesonephros_development | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001824 | Blastocyst_development | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001829 | Trophectodermal_cell_differentiation | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001836 | Release_of_cytochrome_c_from_mitochondria | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001837 | Epithelial_to_mesenchymal_transition | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001841 | Neural_tube_formation | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001843 | Neural_tube_closure | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001882 | Nucleoside_binding | | | | | | |
| _01 | 42 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001889 | Liver_development | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001890 | Placenta_development | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001892 | Embryonic_placenta_development | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001894 | Tissue_homeostasis | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001917 | Photoreceptor_inner_segment | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001932 | Regulation_of_protein_phosphorylation | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001933 | Negative_regulation_of_protein_phosphorylation | | | | | | |
| _01 | 30 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001934 | Positive_regulation_of_protein_phosphorylation | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001935 | Endothelial_cell_proliferation | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001937 | Negative_regulation_of_endothelial_cell_proliferation | | | | | | |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001938 | Positive_regulation_of_endothelial_cell_proliferation | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001942 | Hair_follicle_development | | | | | | |

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| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001944 | Vasculature_development | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001946 | Lymphangiogenesis | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001947 | Heart_looping | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001948 | Glycoprotein_binding | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001952 | Regulation_of_cell-matrix_adhesion | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001953 | Negative_regulation_of_cell-matrix_adhesion | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001954 | Positive_regulation_of_cell-matrix_adhesion | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001955 | Blood_vessel_maturation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001957 | Intramembranous_ossification | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001958 | Endochondral_ossification | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001960 | Negative_regulation_of_cytokine-mediated_signaling_pathway | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001963 | Synaptic_transmission,_dopaminergic | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001965 | G-protein_alpha-subunit_binding | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001968 | Fibronectin_binding | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001972 | Retinoic_acid_binding | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001974 | Blood_vessel_remodeling | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0001975 | Response_to_amphetamine | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002009 | Morphogenesis_of_an_epithelium | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002011 | Morphogenesis_of_an_epithelial_sheet | | | | | | |
| _01 | 20 | 1 | 1 | 1 | 0 | 0.000339 | G0: |
| 0002020 | Protease_binding | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002026 | Regulation_of_the_force_of_heart_contraction | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002027 | Regulation_of_heart_rate | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002028 | Regulation_of_sodium_ion_transport | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002039 | P53_binding | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002040 | Sprouting_angiogenesis | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002052 | Positive_regulation_of_neuroblast_proliferation | | | | | | |
| _01 | 23 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002053 | Positive_regulation_of_mesenchymal_cell_proliferation | | | | | | |

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| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002062 | Chondrocyte_differentiation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002063 | Chondrocyte_development | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002076 | Osteoblast_development | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002087 | Regulation_of_respiratory_gaseous_exchange_by_neurological_system_process | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002088 | Lens_development_in_camera-type_eye | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002102 | Podosome | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002244 | Hemopoietic_progenitor_cell_differentiation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002446 | Neutrophil_mediated_immunity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002548 | Monocyte_chemotaxis | | | | | | |
| _01 | 52 | 2 | 0.000348 | 0.0950739 | 0 | | |
| 0.0001945 | G0:0002576 Platelet_degranulation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002675 | Positive_regulation_of_acute_inflammatory_response | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002687 | Positive_regulation_of_leukocyte_migration | | | | | | |
| _01 | 40 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002756 | MyD88-independent_toll-like_receptor_signaling_pathway | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0002925 | Positive_regulation_of_humoral_immune_response_mediated_by_circulating_immunoglobulin | | | | | | |
| _01 | 23 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003007 | Heart_morphogenesis | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003009 | Skeletal_muscle_contraction | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003016 | Respiratory_system_process | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003151 | Outflow_tract_morphogenesis | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003281 | Ventricular_septum_development | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003337 | Mesenchymal_to_epithelial_transition_involved_in_metanephros_morphogenesis | | | | | | |
| _01 | 397 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0003674 | Molecular_function | | | | | | |
| _01 | 175 | 1 | 1 | 1 | 0 | 5.9e-05 | G0: |
| 0003676 | Nucleic_acid_binding | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003678 | DNA_helicase_activity | | | | | | |
| _01 | 106 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003682 | Chromatin_binding | | | | | | |

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| _01 | 31 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003684 | Damaged_DNA_binding | | | | | | |
| _01 | 79 | 2 | 0.0012 | 0.185405 | 0 | 6.85e-05 | G0: |
| 0003690 | Double-stranded_DNA_binding | | | | | | |
| _01 | 31 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003697 | Single-stranded_DNA_binding | | | | | | |
| _01 | 622 | 6 | 3e-06 | 0.00182 | 0 | 0.0002155 | |
| G0:0003700 | Sequence-specific_DNA_binding_transcription_factor_activity | | | | | | |
| _01 | 92 | 1 | 1 | 1 | 0 | 0.000344 | G0: |
| 0003702 | RNA_polymerase_II_transcription_factor_activity | | | | | | |
| _01 | 52 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: |
| 0003704 | Specific_RNA_polymerase_II_transcription_factor_activity | | | | | | |
| _01 | 56 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: |
| 0003705 | Sequence-specific_enhancer_binding_RNA_polymerase_II_transcription_factor_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003706 | Ligand-regulated_transcription_factor_activity | | | | | | |
| _01 | 32 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003707 | Steroid_hormone_receptor_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003711 | Transcription_elongation_regulator_activity | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003712 | Transcription_cofactor_activity | | | | | | |
| _01 | 130 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003713 | Transcription_coactivator_activity | | | | | | |
| _01 | 99 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003714 | Transcription_corepressor_activity | | | | | | |
| _01 | 394 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0003723 | RNA_binding | | | | | | |
| _01 | 7 | 1 | 1 | 1 | 0 | 5.2e-05 | G0: |
| 0003724 | RNA_helicase_activity | | | | | | |
| _01 | 19 | 1 | 1 | 1 | 0 | 5.2e-05 | G0: |
| 0003725 | Double-stranded_RNA_binding | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003727 | Single-stranded_RNA_binding | | | | | | |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003729 | mRNA_binding | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003730 | mRNA_3'-UTR_binding | | | | | | |
| _01 | 109 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003735 | Structural_constituent_of_ribosome | | | | | | |
| _01 | 34 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003743 | Translation_initiation_factor_activity | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003746 | Translation_elongation_factor_activity | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003755 | Peptidyl-prolyl_cis-trans_isomerase_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003756 | Protein_disulfide_isomerase_activity | | | | | | |
| _01 | 50 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0003774 | Motor_activity | | | | | | |
| _01 | 50 | 0 | 1 | 1 | 0 | 0 | G0: |

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| 0003777 | Microtubule_motor_activity | | | | | | | |
| _01 | 198 | 2 | 0.020267 | 0.582399 | 0 | 5.95e-05 | G0: | |
| 0003779 | Actin_binding | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0003785 | Actin_monomer_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0003796 | Lysozyme_activity | | | | | | | |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0003823 | Antigen_binding | | | | | | | |
| _01 | 72 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0003824 | Catalytic_activity | | | | | | | |
| _01 | 3 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0003840 | Gamma-glutamyltransferase_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0003841 | 1-acylglycerol-3-phosphate_0-acyltransferase_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0003847 | 1-alkyl-2-acetylgllycerophosphocholine_esterase_activity | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0003887 | DNA-directed_DNA_polymerase_activity | | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0003899 | DNA-directed_RNA_polymerase_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0003906 | DNA-(apurinic_or_aprimidinic_site)_lyase_activity | | | | | | | |
| _01 | 145 | 1 | 1 | 1 | 0 | 0.000423 | G0: | |
| 0003924 | GTPase_activity | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0003950 | NAD+_ADP-ribosyltransferase_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0003954 | NADH_dehydrogenase_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0003993 | Acid_phosphatase_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0003995 | Acyl-CoA_dehydrogenase_activity | | | | | | | |
| _01 | 15 | 1 | 1 | 1 | 0 | 5.2e-05 | G0: | |
| 0004003 | ATP-dependent_DNA_helicase_activity | | | | | | | |
| _01 | 11 | 1 | 1 | 1 | 0 | 5.2e-05 | G0: | |
| 0004004 | ATP-dependent_RNA_helicase_activity | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004012 | Phospholipid-translocating_ATPase_activity | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004016 | Adenylate_cyclase_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004017 | Adenylate_kinase_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004029 | Aldehyde_dehydrogenase_(NAD)_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004033 | Aldo-keto_reductase_activity | | | | | | | |
| _01 | 3 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004035 | Alkaline_phosphatase_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004065 | Arylsulfatase_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004089 | Carbonate_dehydratase_activity | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0004091 | Carboxylesterase_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004114 | 3',5'-cyclic-nucleotide_phosphodiesterase_activity | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004115 | 3',5'-cyclic-AMP_phosphodiesterase_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004128 | Cytochrome-b5_reductase_activity | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004129 | Cytochrome-c_oxidase_activity | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004143 | Diacylglycerol_kinase_activity | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004175 | Endopeptidase_activity | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004177 | Aminopeptidase_activity | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004180 | Carboxypeptidase_activity | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004181 | Metallocoarboxypeptidase_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004185 | Serine-type_carboxypeptidase_activity | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004190 | Aspartic-type_endopeptidase_activity | | | | | | | |
| _01 | 34 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004197 | Cysteine-type_endopeptidase_activity | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004198 | Calcium-dependent_cysteine-type_endopeptidase_activity | | | | | | | |
| _01 | 36 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004221 | Ubiquitin_thiolesterase_activity | | | | | | | |
| _01 | 75 | 2 | 0.001655 | 0.219867 | 0 | 7.35e-05 | | G0: |
| 0004222 | Metalloendopeptidase_activity | | | | | | | |
| _01 | 94 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004252 | Serine-type_endopeptidase_activity | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004298 | Threonine-type_endopeptidase_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004303 | Estradiol_17-beta-dehydrogenase_activity | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004364 | Glutathione_transferase_activity | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004383 | Guanylate_cyclase_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004385 | Guanylate_kinase_activity | | | | | | | |
| _01 | 68 | 1 | 1 | 1 | 0 | 5.9e-05 | | G0: |
| 0004386 | Helicase_activity | | | | | | | |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004402 | Histone_acetyltransferase_activity | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004407 | Histone_deacetylase_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004428 | Inositol_or_phosphatidylinositol_kinase_activity | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0004435 | Phosphoinositide_phospholipase_C_activity | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | G0: |

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| _01 | 205 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0004674 | Protein_serine/threonine_kinase_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004675 | Transmembrane_receptor_protein_serine/threonine_kinase_activity | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004683 | Calmodulin-dependent_protein_kinase_activity | | | | | | |
| _01 | 4 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004691 | CAMP-dependent_protein_kinase_activity | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004693 | Cyclin-dependent_protein_kinase_activity | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004697 | Protein_kinase_C_activity | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004707 | MAP_kinase_activity | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004708 | MAP_kinase_kinase_activity | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004709 | MAP_kinase_kinase_kinase_activity | | | | | | |
| _01 | 54 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004713 | Protein_tyrosine_kinase_activity | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004714 | Transmembrane_receptor_protein_tyrosine_kinase_activity | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004715 | Non-membrane_spanning_protein_tyrosine_kinase_activity | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004716 | Receptor_signaling_protein_tyrosine_kinase_activity | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004721 | Phosphoprotein_phosphatase_activity | | | | | | |
| _01 | 20 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0004722 | Protein_serine/threonine_phosphatase_activity | | | | | | |
| _01 | 57 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004725 | Protein_tyrosine_phosphatase_activity | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004767 | Sphingomyelin_phosphodiesterase_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004791 | Thioredoxin-disulfide_reductase_activity | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004806 | Triglyceride_lipase_activity | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004835 | Tubulin-tyrosine_ligase_activity | | | | | | |
| _01 | 126 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0004842 | Ubiquitin-protein_ligase_activity | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004843 | Ubiquitin-specific_protease_activity | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004857 | Enzyme_inhibitor_activity | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004859 | Phospholipase_inhibitor_activity | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004860 | Protein_kinase_inhibitor_activity | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0004861 | Cyclin-dependent_protein_kinase_inhibitor_activity | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |

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| 0004864 | Phosphoprotein_phosphatase_inhibitor_activity | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004866 | Endopeptidase_inhibitor_activity | | | | | | | |
| _01 | 58 | 1 | 1 | 1 | 0 | 0.000339 | G0: | |
| 0004867 | Serine-type_endopeptidase_inhibitor_activity | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004869 | Cysteine-type_endopeptidase_inhibitor_activity | | | | | | | |
| _01 | 188 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004871 | Signal_transducer_activity | | | | | | | |
| _01 | 862 | 1 | 1 | 1 | 0 | 5.9e-05 | G0: | |
| 0004872 | Receptor_activity | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004879 | Ligand-dependent_nuclear_receptor_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004887 | Thyroid_hormone_receptor_activity | | | | | | | |
| _01 | 73 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004888 | Transmembrane_receptor_activity | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004889 | Nicotinic_acetylcholine-activated_cation-selective_channel_activity | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004890 | GABA-A_receptor_activity | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004896 | Cytokine_receptor_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004908 | Interleukin-1_receptor_activity | | | | | | | |
| _01 | 242 | 1 | 1 | 1 | 0 | 5.9e-05 | G0: | |
| 0004930 | G-protein_coupled_receptor_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004931 | Extracellular_ATP-gated_cation_channel_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004935 | Adrenergic_receptor_activity | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004950 | Chemokine_receptor_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004957 | Prostaglandin_E_receptor_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004969 | Histamine_receptor_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004977 | Melanocortin_receptor_activity | | | | | | | |
| _01 | 4 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004982 | N-formyl_peptide_receptor_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004983 | Neuropeptide_Y_receptor_activity | | | | | | | |
| _01 | 284 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004984 | Olfactory_receptor_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004993 | Serotonin_receptor_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0004994 | Somatostatin_receptor_activity | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005001 | Transmembrane_receptor_protein_tyrosine_phosphatase_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005003 | Ephrin_receptor_activity | | | | | | | |

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| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005005 | Transmembrane-ephrin_receptor_activity | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005021 | Vascular_endothelial_growth_factor_receptor_activity | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005024 | Transforming_growth_factor_beta_receptor_activity | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005031 | Tumor_necrosis_factor_receptor_activity | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005041 | Low-density_lipoprotein_receptor_activity | | | | | | |
| _01 | 30 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005044 | Scavenger_receptor_activity | | | | | | |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005057 | Receptor_signaling_protein_activity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005068 | Transmembrane_receptor_protein_tyrosine_kinase_adaptor_activity | | | | | | |
| _01 | 32 | 1 | 1 | 1 | 0 | 4.9e-05 | G0: |
| 0005070 | SH3/SH2_adaptor_activity | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005080 | Protein_kinase_C_binding | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005083 | Small_GTPase_regulator_activity | | | | | | |
| _01 | 84 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005085 | Guanyl-nucleotide_exchange_factor_activity | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005086 | ARF_guanyl-nucleotide_exchange_factor_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005088 | Ras_guanyl-nucleotide_exchange_factor_activity | | | | | | |
| _01 | 45 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005089 | Rho_guanyl-nucleotide_exchange_factor_activity | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005095 | GTPase_inhibitor_activity | | | | | | |
| _01 | 113 | 1 | 1 | 1 | 0 | 4.9e-05 | G0: |
| 0005096 | GTPase_activator_activity | | | | | | |
| _01 | 30 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005097 | Rab_GTPase_activator_activity | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005099 | Ras_GTPase_activator_activity | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005100 | Rho_GTPase_activator_activity | | | | | | |
| _01 | 143 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005102 | Receptor_binding | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005104 | Fibroblast_growth_factor_receptor_binding | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005109 | Frizzled_binding | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005112 | Notch_binding | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005114 | Type_II_transforming_growth_factor_beta_receptor_binding | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005123 | Death_receptor_binding | | | | | | |
| _01 | 119 | 1 | 1 | 1 | 0 | 0.000423 | G0: |

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| 0005125 | Cytokine_activity | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005126 | Cytokine_receptor_binding | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005132 | Interferon-alpha/beta_receptor_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005138 | Interleukin-6_receptor_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005149 | Interleukin-1_receptor_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005152 | Interleukin-1_receptor_antagonist_activity | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005154 | Epidermal_growth_factor_receptor_binding | | | | | | | |
| _01 | 23 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005158 | Insulin_receptor_binding | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005159 | Insulin-like_growth_factor_receptor_binding | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005160 | Transforming_growth_factor_beta_receptor_binding | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005161 | Platelet-derived_growth_factor_receptor_binding | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005164 | Tumor_necrosis_factor_receptor_binding | | | | | | | |
| _01 | 44 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005178 | Integrin_binding | | | | | | | |
| _01 | 52 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005179 | Hormone_activity | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005184 | Neuropeptide_hormone_activity | | | | | | | |
| _01 | 128 | 1 | 1 | 1 | 0 | 6.9e-05 | G0: | |
| 0005198 | Structural_molecule_activity | | | | | | | |
| _01 | 45 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005200 | Structural_constituent_of_cytoskeleton | | | | | | | |
| _01 | 41 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005201 | Extracellular_matrix_structural_constituent | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005212 | Structural_constituent_of_eye_lens | | | | | | | |
| _01 | 173 | 1 | 1 | 1 | 0 | 5e-05 | G0: | |
| 0005215 | Transporter_activity | | | | | | | |
| _01 | 99 | 1 | 1 | 1 | 0 | 0.000423 | G0: | |
| 0005216 | Ion_channel_activity | | | | | | | |
| _01 | 30 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005230 | Extracellular_ligand-gated_ion_channel_activity | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005234 | Extracellular-glutamate-gated_ion_channel_activity | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005242 | Inward_rectifier_potassium_channel_activity | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005243 | Gap_junction_channel_activity | | | | | | | |
| _01 | 105 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005244 | Voltage-gated_ion_channel_activity | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005245 | Voltage-gated_calcium_channel_activity | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0005246 | Calcium_channel_regulator_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005247 | Voltage-gated_chloride_channel_activity | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005248 | Voltage-gated_sodium_channel_activity | | | | | | | |
| _01 | 51 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005249 | Voltage-gated_potassium_channel_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005251 | Delayed_rectifier_potassium_channel_activity | | | | | | | |
| _01 | 40 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005254 | Chloride_channel_activity | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005261 | Cation_channel_activity | | | | | | | |
| _01 | 35 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005262 | Calcium_channel_activity | | | | | | | |
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005267 | Potassium_channel_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005272 | Sodium_channel_activity | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005313 | L-glutamate_transmembrane_transporter_activity | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005319 | Lipid_transporter_activity | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005328 | Neurotransmitter:sodium_symporter_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005337 | Nucleoside_transmembrane_transporter_activity | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005344 | Oxygen_transporter_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005351 | Sugar:hydrogen_symporter_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005355 | Glucose_transmembrane_transporter_activity | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005385 | Zinc_ion_transmembrane_transporter_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005388 | Calcium-transporting_ATPase_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005391 | Sodium:potassium-exchanging_ATPase_activity | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005452 | Inorganic_anion_exchanger_activity | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005484 | SNAP_receptor_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005487 | Nucleocytoplasmic_transporter_activity | | | | | | | |
| _01 | 301 | 2 | 0.023215 | 0.609116 | 0 | 0 | 0.0002365 | |
| G0:0005488 | Binding | | | | | | | |
| _01 | 15 | 1 | 1 | 1 | 0 | 0 | 0.000339 | GO: |
| 0005496 | Steroid_binding | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005501 | Retinoid_binding | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005504 | Fatty_acid_binding | | | | | | | |
| _01 | 45 | 0 | 1 | 1 | 0 | 0 | | GO: |

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| 0005506 | Iron_ion_binding | | | | | | | |
| _01 | 39 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005507 | Copper_ion_binding | | | | | | | |
| _01 | 411 | 1 | 1 | 1 | 0 | 0.000423 | G0: | |
| 0005509 | Calcium_ion_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005513 | Detection_of_calcium_ion | | | | | | | |
| _01 | 98 | 1 | 1 | 1 | 0 | 6.9e-05 | G0: | |
| 0005516 | Calmodulin_binding | | | | | | | |
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005518 | Collagen_binding | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005520 | Insulin-like_growth_factor_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005521 | Lamin_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005522 | Profilin_binding | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005523 | Tropomyosin_binding | | | | | | | |
| _01 | 909 | 3 | 0.047166 | 0.706319 | 0 | 5.36667e-05 | | |
| G0:0005524 | ATP_binding | | | | | | | |
| _01 | 239 | 1 | 1 | 1 | 0 | 0.000423 | G0: | |
| 0005525 | GTP_binding | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005528 | FK506_binding | | | | | | | |
| _01 | 90 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005529 | Sugar_binding | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005537 | Mannose_binding | | | | | | | |
| _01 | 13 | 1 | 1 | 1 | 0 | 0.000339 | G0: | |
| 0005539 | Glycosaminoglycan_binding | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005540 | Hyaluronic_acid_binding | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005542 | Folic_acid_binding | | | | | | | |
| _01 | 34 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005543 | Phospholipid_binding | | | | | | | |
| _01 | 19 | 1 | 1 | 1 | 0 | 5e-05 | G0: | |
| 0005544 | Calcium-dependent_phospholipid_binding | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005545 | Phosphatidylinositol_binding | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005546 | Phosphatidylinositol-4,5-bisphosphate_binding | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005547 | Phosphatidylinositol-3,4,5-trisphosphate_binding | | | | | | | |
| _01 | 345 | 2 | 0.030622 | 0.642941 | 0 | 0.0002435 | | |
| G0:0005575 | Cellular_component | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005577 | Fibrinogen_complex | | | | | | | |
| _01 | 166 | 2 | 0.011648 | 0.508221 | 0 | 0.000211 | G0: | |
| 0005578 | Proteinaceous_extracellular_matrix | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005579 | Membrane_attack_complex | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0005581 | Collagen | | | | | | | |
| _01 | 45 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005604 | Basement_membrane | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005605 | Basal_lamina | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005606 | Laminin-1_complex | | | | | | | |
| _01 | 499 | 3 | 0.003443 | 0.308913 | 0 | 0 | 0.000281667 | |
| G0:0005615 | Extracellular_space | | | | | | | |
| _01 | 323 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005624 | Membrane_fraction | | | | | | | |
| _01 | 197 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005625 | Soluble_fraction | | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005626 | Insoluble_fraction | | | | | | | |
| _01 | 64 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005635 | Nuclear_envelope | | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005637 | Nuclear_inner_membrane | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005640 | Nuclear_outer_membrane | | | | | | | |
| _01 | 38 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005643 | Nuclear_pore | | | | | | | |
| _01 | 498 | 3 | 0.002715 | 0.281437 | 0 | 0 | 0.000183 | G0: |
| 0005654 | Nucleoplasm | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005655 | Nucleolar_ribonuclease_P_complex | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005657 | Replication_fork | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005658 | Alpha_DNA_polymerase:primase_complex | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005664 | Nuclear_origin_of_replication_recognition_complex | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005665 | DNA-directed_RNA_polymerase_II,_core_complex | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005666 | DNA-directed_RNA_polymerase_III_complex | | | | | | | |
| _01 | 124 | 3 | 0.000119 | 0.045301 | 0 | 0 | 0.000157 | G0: |
| 0005667 | Transcription_factor_complex | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005669 | Transcription_factor_TFIID_complex | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005671 | Ada2/Gcn5/Ada3_transcription_activator_complex | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005675 | Holo_TFIIF_complex | | | | | | | |
| _01 | 20 | 1 | 1 | 1 | 0 | 0 | 0.000423 | G0: |
| 0005680 | Anaphase-promoting_complex | | | | | | | |
| _01 | 87 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005681 | Spliceosomal_complex | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0005689 | U12-type_spliceosomal_complex | | | | | | | |
| _01 | 70 | 1 | 1 | 1 | 0 | 0 | 0.000423 | G0: |
| 0005694 | Chromosome | | | | | | | |
| _01 | 9 | 1 | 1 | 1 | 0 | 0 | 7.4e-05 | G0: |

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|---------|--|-----------|----------|----------|---|------------|-----|
| 0005720 | Nuclear_heterochromatin | | | | | | |
| _01 | 697 | 4 | 0.001055 | 0.172897 | 0 | 0.00021725 | |
| G0: | 0005730 | Nucleolus | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005732 | Small_nucleolar_ribonucleoprotein_complex | | | | | | |
| _01 | 790 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0005739 | Mitochondrion | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005740 | Mitochondrial_envelope | | | | | | |
| _01 | 58 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005741 | Mitochondrial_outer_membrane | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005742 | Mitochondrial_outer_membrane_translocase_complex | | | | | | |
| _01 | 160 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005743 | Mitochondrial_inner_membrane | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005744 | Mitochondrial_inner_membrane_presequence_translocase_complex | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005746 | Mitochondrial_respiratory_chain | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005747 | Mitochondrial_respiratory_chain_complex_I | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005753 | Mitochondrial_proton-transporting_ATP_synthase_complex | | | | | | |
| _01 | 19 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0005758 | Mitochondrial_intermembrane_space | | | | | | |
| _01 | 111 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005759 | Mitochondrial_matrix | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005761 | Mitochondrial_ribosome | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005762 | Mitochondrial_large_ribosomal_subunit | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005763 | Mitochondrial_small_ribosomal_subunit | | | | | | |
| _01 | 104 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0005764 | Lysosome | | | | | | |
| _01 | 62 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005765 | Lysosomal_membrane | | | | | | |
| _01 | 142 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005768 | Endosome | | | | | | |
| _01 | 54 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005769 | Early_endosome | | | | | | |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005770 | Late_endosome | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005771 | Multivesicular_body | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005773 | Vacuole | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005774 | Vacuolar_membrane | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005776 | Autophagic_vacuole | | | | | | |
| _01 | 57 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0005777 | Peroxisome | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: |

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|------------|--|---|-----------|----------|----------|----------|----------|--|
| 0005778 | Peroxisomal_membrane | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005779 | Integral_to_peroxisomal_membrane | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005782 | Peroxisomal_matrix | | | | | | | |
| _01 | 575 | 2 | 0.0593539 | | 0.722286 | 0 | 4.45e-05 | |
| G0:0005783 | Endoplasmic_reticulum | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005786 | Signal_recognition_particle,_endoplasmic_reticulum_targeting | | | | | | | |
| _01 | 59 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0005788 | Endoplasmic_reticulum_lumen | | | | | | | |
| _01 | 355 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0005789 | Endoplasmic_reticulum_membrane | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005790 | Smooth_endoplasmic_reticulum | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005791 | Rough_endoplasmic_reticulum | | | | | | | |
| _01 | 126 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0005792 | Microsome | | | | | | | |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005793 | ER-Golgi_intermediate_compartment | | | | | | | |
| _01 | 574 | 1 | 1 | 1 | 0 | 0.000423 | G0: | |
| 0005794 | Golgi_apparatus | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005795 | Golgi_stack | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005796 | Golgi_lumen | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005798 | Golgi-associated_vesicle | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005801 | Cis-Golgi_network | | | | | | | |
| _01 | 40 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005802 | Trans-Golgi_network | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005811 | Lipid_particle | | | | | | | |
| _01 | 113 | 2 | 0.00338 | 0.307749 | 0 | 5.1e-05 | G0: | |
| 0005813 | Centrosome | | | | | | | |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005814 | Centriole | | | | | | | |
| _01 | 64 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005815 | Microtubule_organizing_center | | | | | | | |
| _01 | 65 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005819 | Spindle | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005832 | Chaperonin-containing_T-complex | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005833 | Hemoglobin_complex | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005834 | Heterotrimeric_G-protein_complex | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005838 | Proteasome_regulatory_particle | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005839 | Proteasome_core_complex | | | | | | | |
| _01 | 107 | 0 | 1 | 1 | 0 | 0 | G0: | |

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|-------------|--|--------------|------------|----------|---|-----------|--|-----|
| 0005840 | Ribosome | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005844 | Polysome | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005845 | MRNA_cap_binding_complex | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005852 | Eukaryotic_translation_initiation_factor_3_complex | | | | | | | |
| _01 | 439 | 3 | 0.00865799 | 0.456225 | 0 | 0 | | |
| 0.000180667 | GO:0005856 | Cytoskeleton | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005858 | Axonemal_dynein_complex | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005859 | Muscle_myosin_complex | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005861 | Troponin_complex | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005868 | Cytoplasmic_dynein_complex | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005871 | Kinesin_complex | | | | | | | |
| _01 | 145 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005874 | Microtubule | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005875 | Microtubule_associated_complex | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005876 | Spindle_microtubule | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005881 | Cytoplasmic_microtubule | | | | | | | |
| _01 | 43 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005882 | Intermediate_filament | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005883 | Neurofilament | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005884 | Actin_filament | | | | | | | |
| _01 | 646 | 2 | 0.111196 | 0.827606 | 0 | 0.0002375 | | |
| GO:0005887 | Integral_to_plasma_membrane | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005890 | Sodium:potassium-exchanging_ATPase_complex | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005891 | Voltage-gated_calcium_channel_complex | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005892 | Nicotinic_acetylcholine-gated_receptor-channel_complex | | | | | | | |
| _01 | 35 | 1 | 1 | 1 | 0 | 3.9e-05 | | GO: |
| 0005901 | Caveola | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005902 | Microvillus | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005903 | Brush_border | | | | | | | |
| _01 | 32 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005905 | Coated_pit | | | | | | | |
| _01 | 45 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005911 | Cell-cell_junction | | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0005912 | Adherens_junction | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | | GO: |

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| 0005913 | Cell-cell_adherens_junction | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005915 | Zonula_adherens | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005916 | Fascia_adherens | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005921 | Gap_junction | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005922 | Connexon_complex | | | | | | | |
| _01 | 53 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005923 | Tight_junction | | | | | | | |
| _01 | 71 | 1 | 1 | 1 | 0 | 0.000344 | G0: | |
| 0005925 | Focal_adhesion | | | | | | | |
| _01 | 63 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005929 | Cilium | | | | | | | |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005932 | Microtubule_basal_body | | | | | | | |
| _01 | 56 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005938 | Cell_cortex | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005942 | Phosphoinositide_3-kinase_complex | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005952 | CAMP-dependent_protein_kinase_complex | | | | | | | |
| _01 | 177 | 2 | 0.004555 | 0.35498 | 0 | 5.1e-05 | G0: | |
| 0005975 | Carbohydrate_metabolic_process | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005977 | Glycogen_metabolic_process | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005978 | Glycogen_biosynthetic_process | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0005980 | Glycogen_catabolic_process | | | | | | | |
| _01 | 5 | 1 | 1 | 1 | 0 | 5e-05 | G0: | |
| 0006000 | Fructose_metabolic_process | | | | | | | |
| _01 | 60 | 2 | 0.000428 | 0.104867 | 0 | 0.0001945 | | |
| G0:0006006 | Glucose_metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006013 | Mannose_metabolic_process | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006024 | Glycosaminoglycan_biosynthetic_process | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006044 | N-acetylglucosamine_metabolic_process | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006071 | Glycerol_metabolic_process | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006081 | Cellular_aldehyde_metabolic_process | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006090 | Pyruvate_metabolic_process | | | | | | | |
| _01 | 43 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006091 | Generation_of_precursor_metabolites_and_energy | | | | | | | |
| _01 | 25 | 1 | 1 | 1 | 0 | 5e-05 | G0: | |
| 0006094 | Gluconeogenesis | | | | | | | |
| _01 | 23 | 1 | 1 | 1 | 0 | 5e-05 | G0: | |
| 0006096 | Glycolysis | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0006098 | Pentose-phosphate_shunt | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006099 | Tricarboxylic_acid_cycle | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006101 | Citrate_metabolic_process | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006103 | 2-oxoglutarate_metabolic_process | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006107 | Oxaloacetate_metabolic_process | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006108 | Malate_metabolic_process | | | | | | | |
| _01 | 71 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006112 | Energy_reserve_metabolic_process | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006120 | Mitochondrial_electron_transport,_NADH_to_ubiquinone | | | | | | | |
| _01 | 34 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006139 | Nucleobase,_nucleoside,_nucleotide_and_nucleic_acid_metabolic_processes | | | | | | | |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006144 | Purine_base_metabolic_process | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006164 | Purine_nucleotide_biosynthetic_process | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006182 | CGMP_biosynthetic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006183 | GTP_biosynthetic_process | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006195 | Purine_nucleotide_catabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006200 | ATP_catabolic_process | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006206 | Pyrimidine_base_metabolic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006228 | UTP_biosynthetic_process | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006241 | CTP_biosynthetic_process | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006259 | DNA_metabolic_process | | | | | | | |
| _01 | 93 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006260 | DNA_replication | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006261 | DNA-dependent_DNA_replication | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006265 | DNA_topological_change | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006268 | DNA_unwinding_involved_in_replication | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006270 | DNA-dependent_DNA_replication_initiation | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006271 | DNA_strand_elongation_involved_in_DNA_replication | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006275 | Regulation_of_DNA_replication | | | | | | | |
| _01 | 159 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0006281 | DNA_repair | | | | | | | |
| _01 | 23 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006283 | Transcription-coupled_nucleotide-excision_repair | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006284 | Base-excision_repair | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006285 | Base-excision_repair,_AP_site_formation | | | | | | | |
| _01 | 37 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006289 | Nucleotide-excision_repair | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006297 | Nucleotide-excision_repair,_DNA_gap_filling | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006298 | Mismatch_repair | | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006302 | Double-strand_break_repair | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006303 | Double-strand_break_repair_via_nonhomologous_end_joining | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006306 | DNA_methylation | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006309 | DNA_fragmentation_involved_in_apoptotic_nuclear_change | | | | | | | |
| _01 | 39 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006310 | DNA_recombination | | | | | | | |
| _01 | 15 | 1 | 1 | 1 | 0 | 7.4e-05 | | GO: |
| 0006325 | Chromatin_organization | | | | | | | |
| _01 | 25 | 1 | 1 | 1 | 0 | 5e-05 | | GO: |
| 0006333 | Chromatin_assembly_or_disassembly | | | | | | | |
| _01 | 36 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006334 | Nucleosome_assembly | | | | | | | |
| _01 | 32 | 1 | 1 | 1 | 0 | 6.3e-05 | | GO: |
| 0006338 | Chromatin_remodeling | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006342 | Chromatin_silencing | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006349 | Regulation_of_gene_expression_by_genetic_imprinting | | | | | | | |
| _01 | 122 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006350 | Transcription | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006351 | Transcription,_DNA-dependent | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006352 | Transcription_initiation,_DNA-dependent | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006354 | Transcription_elongation,_DNA-dependent | | | | | | | |
| _01 | 557 | 5 | 1.6e-05 | 0.00879199 | 0 | 0.000246 | | |
| GO:0006355 | Regulation_of_transcription,_DNA-dependent | | | | | | | |
| _01 | 152 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006357 | Regulation_of_transcription_from_RNA_polymerase_II_promoter | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006360 | Transcription_from_RNA_polymerase_I_promoter | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006361 | Transcription_initiation_from_RNA_polymerase_I_promoter | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006362 | Transcription_elongation_from_RNA_polymerase_I_promoter | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | GO: |

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|---------|---|---|---|---|---|---|--|-----|
| 0006363 | Termination_of_RNA_polymerase_I_transcription | | | | | | | |
| _01 | 58 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006364 | RRNA_processing | | | | | | | |
| _01 | 161 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006366 | Transcription_from_RNA_polymerase_II_promoter | | | | | | | |
| _01 | 38 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006367 | Transcription_initiation_from_RNA_polymerase_II_promoter | | | | | | | |
| _01 | 31 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006368 | Transcription_elongation_from_RNA_polymerase_II_promoter | | | | | | | |
| _01 | 35 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006369 | Termination_of_RNA_polymerase_II_transcription | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006370 | MRNA_capping | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006376 | MRNA_splice_site_selection | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006378 | MRNA_polyadenylation | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006379 | MRNA_cleavage | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006383 | Transcription_from_RNA_polymerase_III_promoter | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006385 | Transcription_elongation_from_RNA_polymerase_III_promoter | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006386 | Termination_of_RNA_polymerase_III_transcription | | | | | | | |
| _01 | 57 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006396 | RNA_processing | | | | | | | |
| _01 | 166 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006397 | MRNA_processing | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006398 | Histone_mRNA_3'-end_processing | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006401 | RNA_catabolic_process | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006402 | MRNA_catabolic_process | | | | | | | |
| _01 | 40 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006406 | MRNA_export_from_nucleus | | | | | | | |
| _01 | 171 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006412 | Translation | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006413 | Translational_initiation | | | | | | | |
| _01 | 66 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006414 | Translational_elongation | | | | | | | |
| _01 | 61 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006415 | Translational_termination | | | | | | | |
| _01 | 43 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006417 | Regulation_of_translation | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006418 | TRNA_aminoacylation_for_protein_translation | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006446 | Regulation_of_translational_initiation | | | | | | | |
| _01 | 110 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0006457 | Protein_folding | | | | | | | |
| _01 | 68 | 0 | 1 | 1 | 0 | 0 | | GO: |

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| 0006461 | Protein_complex_assembly | | | | | | | |
| _01 | 94 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006464 | Protein_modification_process | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006465 | Signal_peptide_processing | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006467 | Protein_thiol-disulfide_exchange | | | | | | | |
| _01 | 300 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006468 | Protein_phosphorylation | | | | | | | |
| _01 | 36 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006469 | Negative_regulation_of_protein_kinase_activity | | | | | | | |
| _01 | 75 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006470 | Protein_dephosphorylation | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006471 | Protein_ADP-ribosylation | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006476 | Protein_deacetylation | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006479 | Protein_methylation | | | | | | | |
| _01 | 41 | 1 | 1 | 1 | 0 | 0.000423 | G0: | |
| 0006486 | Protein_glycosylation | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006487 | Protein_N-linked_glycosylation | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006488 | Dolichol-linked_oligosaccharide_biosynthetic_process | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006491 | N-glycan_processing | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006493 | Protein_O-linked_glycosylation | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006501 | C-terminal_protein_lipidation | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006506 | GPI_anchor_biosynthetic_process | | | | | | | |
| _01 | 268 | 2 | 0.016238 | 0.541168 | 0 | 7.35e-05 | G0: | |
| 0006508 | Proteolysis | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006509 | Membrane_protein_ectodomain_proteolysis | | | | | | | |
| _01 | 79 | 1 | 1 | 1 | 0 | 0.000423 | G0: | |
| 0006511 | Ubiquitin-dependent_protein_catabolic_process | | | | | | | |
| _01 | 30 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006520 | Cellular_amino_acid_metabolic_process | | | | | | | |
| _01 | 33 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006521 | Regulation_of_cellular_amino_acid_metabolic_process | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006527 | Arginine_catabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006536 | Glutamate_metabolic_process | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006541 | Glutamine_metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006546 | Glycine_catabolic_process | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006548 | Histidine_catabolic_process | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0006554 | Lysine_catabolic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006559 | L-phenylalanine_catabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006569 | Tryptophan_catabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006573 | Valine_metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006584 | Catecholamine_metabolic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006590 | Thyroid_hormone_generation | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006595 | Polyamine_metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006600 | Creatine_metabolic_process | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006605 | Protein_targeting | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006606 | Protein_import_into_nucleus | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006607 | NLS-bearing_substrate_import_into_nucleus | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006611 | Protein_export_from_nucleus | | | | | | | |
| _01 | 7 | 1 | 1 | 1 | 0 | 5e-05 | G0: | |
| 0006612 | Protein_targeting_to_membrane | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006613 | Cotranslational_protein_targeting_to_membrane | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006614 | SRP-dependent_cotranslational_protein_targeting_to_membrane | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006621 | Protein_retention_in_ER_lumen | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006622 | Protein_targeting_to_lysosome | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006625 | Protein_targeting_to_peroxisome | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006626 | Protein_targeting_to_mitochondrion | | | | | | | |
| _01 | 133 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006629 | Lipid_metabolic_process | | | | | | | |
| _01 | 43 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006631 | Fatty_acid_metabolic_process | | | | | | | |
| _01 | 35 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0006633 | Fatty_acid_biosynthetic_process | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006635 | Fatty_acid_beta-oxidation | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006637 | Acyl-CoA_metabolic_process | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006641 | Triglyceride_metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006642 | Triglyceride_mobilization | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006644 | Phospholipid_metabolic_process | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0006656 | Phosphatidylcholine_biosynthetic_process | | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006665 | Sphingolipid_metabolic_process | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006672 | Ceramide_metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006685 | Sphingomyelin_catabolic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006688 | Glycosphingolipid_biosynthetic_process | | | | | | | |
| _01 | 8 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0006692 | Prostanoid_metabolic_process | | | | | | | |
| _01 | 6 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0006693 | Prostaglandin_metabolic_process | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006694 | Steroid_biosynthetic_process | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006695 | Cholesterol_biosynthetic_process | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006699 | Bile_acid_biosynthetic_process | | | | | | | |
| _01 | 4 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006700 | C21-steroid_hormone_biosynthetic_process | | | | | | | |
| _01 | 4 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006702 | Androgen_biosynthetic_process | | | | | | | |
| _01 | 4 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006704 | Glucocorticoid_biosynthetic_process | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006707 | Cholesterol_catabolic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006729 | Tetrahydrobiopterin_biosynthetic_process | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006730 | One-carbon_metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006734 | NADH_metabolic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006744 | Ubiquinone_biosynthetic_process | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006749 | Glutathione_metabolic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006750 | Glutathione_biosynthetic_process | | | | | | | |
| _01 | 34 | 1 | 1 | 1 | 0 | 5e-05 | G0: | |
| 0006754 | ATP_biosynthetic_process | | | | | | | |
| _01 | 32 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006766 | Vitamin_metabolic_process | | | | | | | |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006767 | Water-soluble_vitamin_metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006776 | Vitamin_A_metabolic_process | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006778 | Porphyrin_metabolic_process | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006783 | Heme_biosynthetic_process | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006790 | Sulfur_compound_metabolic_process | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0006796 | Phosphate_metabolic_process | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006800 | Oxygen_and_reactive_oxygen_species_metabolic_process | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006801 | Superoxide_metabolic_process | | | | | | | |
| _01 | 62 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0006805 | Xenobiotic_metabolic_process | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006807 | Nitrogen_compound_metabolic_process | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006809 | Nitric_oxide_biosynthetic_process | | | | | | | |
| _01 | 324 | 1 | 1 | 1 | 0 | 0.000339 | G0: | |
| 0006810 | Transport | | | | | | | |
| _01 | 391 | 2 | 0.0635899 | | 0.727532 | 0 | 0.000246 | |
| G0:0006811 | Ion_transport | | | | | | | |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006812 | Cation_transport | | | | | | | |
| _01 | 108 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006813 | Potassium_ion_transport | | | | | | | |
| _01 | 77 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006814 | Sodium_ion_transport | | | | | | | |
| _01 | 84 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006816 | Calcium_ion_transport | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006817 | Phosphate_transport | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006820 | Anion_transport | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006821 | Chloride_transport | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006825 | Copper_ion_transport | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006826 | Iron_ion_transport | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006829 | Zinc_ion_transport | | | | | | | |
| _01 | 23 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006833 | Water_transport | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006835 | Dicarboxylic_acid_transport | | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006836 | Neurotransmitter_transport | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006839 | Mitochondrial_transport | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006853 | Carnitine_shuttle | | | | | | | |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006865 | Amino_acid_transport | | | | | | | |
| _01 | 36 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006869 | Lipid_transport | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006873 | Cellular_ion_homeostasis | | | | | | | |
| _01 | 47 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006874 | Cellular_calcium_ion_homeostasis | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0006878 | Cellular_copper_ion_homeostasis | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006879 | Cellular_iron_ion_homeostasis | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006882 | Cellular_zinc_ion_homeostasis | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006884 | Cell_volume_homeostasis | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006885 | Regulation_of_pH | | | | | | | |
| _01 | 122 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006886 | Intracellular_protein_transport | | | | | | | |
| _01 | 33 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006887 | Exocytosis | | | | | | | |
| _01 | 31 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006888 | ER_to_Golgi_vesicle-mediated_transport | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006890 | Retrograde_vesicle-mediated_transport,_Golgi_to_ER | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006891 | Intra-Golgi_vesicle-mediated_transport | | | | | | | |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006892 | Post-Golgi_vesicle-mediated_transport | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006895 | Golgi_to_endosome_transport | | | | | | | |
| _01 | 68 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006897 | Endocytosis | | | | | | | |
| _01 | 32 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006898 | Receptor-mediated_endocytosis | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006904 | Vesicle_docking_involved_in_exocytosis | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006906 | Vesicle_fusion | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006909 | Phagocytosis | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006913 | Nucleocytoplasmic_transport | | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006914 | Autophagy | | | | | | | |
| _01 | 364 | 3 | 0.002442 | 0.264807 | 0 | 0.000182333 | | |
| G0:0006915 | Apoptosis | | | | | | | |
| _01 | 128 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006916 | Anti-apoptosis | | | | | | | |
| _01 | 115 | 1 | 1 | 1 | 0 | 0.000423 | G0: | |
| 0006917 | Induction_of_apoptosis | | | | | | | |
| _01 | 31 | 1 | 1 | 1 | 0 | 0.000423 | G0: | |
| 0006919 | Activation_of_caspase_activity | | | | | | | |
| _01 | 30 | 1 | 1 | 1 | 0 | 7.4e-05 | G0: | |
| 0006921 | Cellular_component_disassembly_involved_in_apoptosis | | | | | | | |
| _01 | 71 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0006928 | Cellular_component_movement | | | | | | | |
| _01 | 80 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006935 | Chemotaxis | | | | | | | |
| _01 | 67 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006936 | Muscle_contraction | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0006937 | Regulation_of_muscle_contraction | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006939 | Smooth_muscle_contraction | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006940 | Regulation_of_smooth_muscle_contraction | | | | | | | |
| _01 | 7 | 1 | 1 | 1 | 0 | 5e-05 | G0: | |
| 0006941 | Striated_muscle_contraction | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006942 | Regulation_of_striated_muscle_contraction | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006944 | Cellular_membrane_fusion | | | | | | | |
| _01 | 78 | 1 | 1 | 1 | 0 | 5e-05 | G0: | |
| 0006950 | Response_to_stress | | | | | | | |
| _01 | 43 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006952 | Defense_response | | | | | | | |
| _01 | 21 | 1 | 1 | 1 | 0 | 0.000339 | G0: | |
| 0006953 | Acute-phase_response | | | | | | | |
| _01 | 151 | 1 | 1 | 1 | 0 | 0.000339 | G0: | |
| 0006954 | Inflammatory_response | | | | | | | |
| _01 | 207 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006955 | Immune_response | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006956 | Complement_activation | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006957 | Complement_activation,_alternative_pathway | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006958 | Complement_activation,_classical_pathway | | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006959 | Humoral_immune_response | | | | | | | |
| _01 | 37 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006968 | Cellular_defense_response | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006970 | Response_to_osmotic_stress | | | | | | | |
| _01 | 58 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006974 | Response_to_DNA_damage_stimulus | | | | | | | |
| _01 | 39 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006977 | DNA_damage_response,_signal_transduction_by_p53_class_mediator_resulting_in_cell_cycle_arrest | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006978 | DNA_damage_response,_signal_transduction_by_p53_class_mediator_resulting_in_transcription_of_p21_class_mediator | | | | | | | |
| _01 | 68 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0006979 | Response_to_oxidative_stress | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006983 | ER_overload_response | | | | | | | |
| _01 | 36 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0006986 | Response_to_unfolded_protein | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007004 | Telomere_maintenance_via_telomerase | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007005 | Mitochondrion_organization | | | | | | | |
| _01 | 31 | 0 | 1 | 1 | 0 | 0 | G0: | |

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|-----------|--|-----------------------------|-------------|----------|---|----------|-----|
| 0007010 | Cytoskeleton_organization | | | | | | |
| _01 | 19 | 2 | 8.39999e-05 | 0.034121 | 0 | | |
| 0.0002365 | G0:0007015 | Actin_filament_organization | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007016 | Cytoskeletal_anchoring_at_plasma_membrane | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007017 | Microtubule-based_process | | | | | | |
| _01 | 53 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007018 | Microtubule-based_movement | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007020 | Microtubule_nucleation | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007026 | Negative_regulation_of_microtubule_depolymerization | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007029 | Endoplasmic_reticulum_organization | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007030 | Golgi_organization | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007031 | Peroxisome_organization | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007032 | Endosome_organization | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007040 | Lysosome_organization | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007043 | Cell-cell_junction_assembly | | | | | | |
| _01 | 230 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007049 | Cell_cycle | | | | | | |
| _01 | 86 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007050 | Cell_cycle_arrest | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007051 | Spindle_organization | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007052 | Mitotic_spindle_organization | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007059 | Chromosome_segregation | | | | | | |
| _01 | 106 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007067 | Mitosis | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007076 | Mitotic_chromosome_condensation | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007080 | Mitotic_metaphase_plate_congression | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007088 | Regulation_of_mitosis | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007089 | Traversing_start_control_point_of_mitotic_cell_cycle | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007090 | Regulation_of_S_phase_of_mitotic_cell_cycle | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007091 | Mitotic_metaphase/anaphase_transition | | | | | | |
| _01 | 20 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0007094 | Mitotic_cell_cycle_spindle_assembly_checkpoint | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007099 | Centriole_replication | | | | | | |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: |

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| 0007126 | Meiosis | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007130 | Synaptonemal_complex_assembly | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007131 | Reciprocal_meiotic_recombination | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007140 | Male_meiosis | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007141 | Male_meiosis_I | | | | | | | |
| _01 | 63 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007154 | Cell_communication | | | | | | | |
| _01 | 342 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007155 | Cell_adhesion | | | | | | | |
| _01 | 77 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007156 | Homophilic_cell_adhesion | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007157 | Heterophilic_cell-cell_adhesion | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007159 | Leukocyte_cell-cell_adhesion | | | | | | | |
| _01 | 54 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007160 | Cell-matrix_adhesion | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007162 | Negative_regulation_of_cell_adhesion | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007163 | Establishment_or_maintenance_of_cell_polarity | | | | | | | |
| _01 | 721 | 1 | 1 | 1 | 0 | 4.9e-05 | G0: | |
| 0007165 | Signal_transduction | | | | | | | |
| _01 | 112 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007166 | Cell_surface_receptor_linked_signaling_pathway | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007168 | Receptor_guanylyl_cyclase_signaling_pathway | | | | | | | |
| _01 | 55 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007169 | Transmembrane_receptor_protein_tyrosine_kinase_signaling_pathway | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007172 | Signal_complex_assembly | | | | | | | |
| _01 | 49 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007173 | Epidermal_growth_factor_receptor_signaling_pathway | | | | | | | |
| _01 | 44 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007179 | Transforming_growth_factor_beta_receptor_signaling_pathway | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007183 | SMAD_protein_complex_assembly | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007185 | Transmembrane_receptor_protein_tyrosine_phosphatase_signaling_pathway | | | | | | | |
| _01 | 210 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007186 | G-protein_coupled_receptor_protein_signaling_pathway | | | | | | | |
| _01 | 31 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007187 | G-protein_signaling,_coupled_to_cyclic_nucleotide_second_messenger | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007188 | G-protein_signaling,_coupled_to_cAMP_nucleotide_second_messenger | | | | | | | |

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| _01 | 27 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007189 | Activation_of_adenylate_cyclase_activity_by_G-protein_signaling_pathway | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007190 | Activation_of_adenylate_cyclase_activity | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007193 | Inhibition_of_adenylate_cyclase_activity_by_G-protein_signaling_pathway | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007194 | Negative_regulation_of_adenylate_cyclase_activity | | | | | | |
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007200 | Activation_of_phospholipase_C_activity_by_G-protein_coupled_receptor_protein_signaling_pathway_coupled_to_IP3_second_messenger | | | | | | |
| _01 | 39 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007202 | Activation_of_phospholipase_C_activity | | | | | | |
| _01 | 70 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007204 | Elevation_of_cytosolic_calcium_ion_concentration | | | | | | |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007205 | Activation_of_protein_kinase_C_activity_by_G-protein_coupled_receptor_protein_signaling_pathway | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007212 | Dopamine_receptor_signaling_pathway | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007213 | Muscarinic_acetylcholine_receptor_signaling_pathway | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007214 | Gamma-aminobutyric_acid_signaling_pathway | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007215 | Glutamate_signaling_pathway | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007217 | Tachykinin_receptor_signaling_pathway | | | | | | |
| _01 | 62 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007218 | Neuropeptide_signaling_pathway | | | | | | |
| _01 | 35 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007219 | Notch_signaling_pathway | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007220 | Notch_receptor_processing | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007223 | Wnt_receptor_signaling_pathway,_calcium_modulating_pathway | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007224 | Smoothed_signaling_pathway | | | | | | |
| _01 | 34 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007229 | Integrin-mediated_signaling_pathway | | | | | | |
| _01 | 69 | 1 | 1 | 1 | 0 | 5.2e-05 | G0: |
| 0007243 | Intracellular_protein_kinase_cascade | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007249 | I-kappaB_kinase/NF-kappaB_cascade | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007250 | Activation_of_NF-kappaB-inducing_kinase_activity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007252 | I-kappaB_phosphorylation | | | | | | |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0007254 | JNK_cascade | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: |

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| 0007257 | Activation_of_JUN_kinase_activity | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007259 | JAK-STAT_cascade | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007263 | Nitric_oxide_mediated_signal_transduction | | | | | | | |
| _01 | 189 | 2 | 0.013636 | 0.521072 | 0 | 0.000236 | | GO: |
| 0007264 | Small_GTPase_mediated_signal_transduction | | | | | | | |
| _01 | 50 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007265 | Ras_protein_signal_transduction | | | | | | | |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007266 | Rho_protein_signal_transduction | | | | | | | |
| _01 | 172 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007267 | Cell-cell_signaling | | | | | | | |
| _01 | 195 | 1 | 1 | 1 | 0 | 5e-05 | | GO: |
| 0007268 | Synaptic_transmission | | | | | | | |
| _01 | 34 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007269 | Neurotransmitter_secretion | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007271 | Synaptic_transmission,_cholinergic | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007274 | Neuromuscular_synaptic_transmission | | | | | | | |
| _01 | 613 | 3 | 0.012557 | 0.516034 | 0 | 0.000152667 | | |
| GO:0007275 | Multicellular_organismal_development | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007276 | Gamete_generation | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007281 | Germ_cell_development | | | | | | | |
| _01 | 179 | 1 | 1 | 1 | 0 | 0.000339 | | GO: |
| 0007283 | Spermatogenesis | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007286 | Spermatid_development | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007292 | Female_gamete_generation | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007338 | Single_fertilization | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007339 | Binding_of_sperm_to_zona_pellucida | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007340 | Acrosome_reaction | | | | | | | |
| _01 | 5 | 1 | 1 | 1 | 0 | 0.000339 | | GO: |
| 0007342 | Fusion_of_sperm_to_egg_plasma_membrane | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007346 | Regulation_of_mitotic_cell_cycle | | | | | | | |
| _01 | 23 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007368 | Determination_of_left/right_symmetry | | | | | | | |
| _01 | 14 | 1 | 1 | 1 | 0 | 0.000339 | | GO: |
| 0007369 | Gastrulation | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007379 | Segment_specification | | | | | | | |
| _01 | 56 | 2 | 0.001235 | 0.187451 | 0 | 5.75e-05 | | GO: |
| 0007389 | Pattern_specification_process | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0007398 | Ectoderm_development | | | | | | | |
| _01 | 272 | 1 | 1 | 1 | 0 | 5e-05 | | GO: |

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| 0007399 | Nervous_system_development | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007405 | Neuroblast_proliferation | | | | | | | |
| _01 | 43 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007409 | Axonogenesis | | | | | | | |
| _01 | 200 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007411 | Axon_guidance | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007413 | Axonal_fasciculation | | | | | | | |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007416 | Synapse_assembly | | | | | | | |
| _01 | 60 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007417 | Central_nervous_system_development | | | | | | | |
| _01 | 83 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007420 | Brain_development | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007422 | Peripheral_nervous_system_development | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007492 | Endoderm_development | | | | | | | |
| _01 | 21 | 1 | 1 | 1 | 0 | 5e-05 | G0: | |
| 0007498 | Mesoderm_development | | | | | | | |
| _01 | 80 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007507 | Heart_development | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007512 | Adult_heart_development | | | | | | | |
| _01 | 62 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007517 | Muscle_organ_development | | | | | | | |
| _01 | 30 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007519 | Skeletal_muscle_tissue_development | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007520 | Myoblast_fusion | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007528 | Neuromuscular_junction_development | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007530 | Sex_determination | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007548 | Sex_differentiation | | | | | | | |
| _01 | 41 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007565 | Female_pregnancy | | | | | | | |
| _01 | 17 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0007566 | Embryo_implantation | | | | | | | |
| _01 | 60 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007568 | Aging | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007569 | Cell_aging | | | | | | | |
| _01 | 51 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007584 | Response_to_nutrient | | | | | | | |
| _01 | 23 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007585 | Respiratory_gaseous_exchange | | | | | | | |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007586 | Digestion | | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0007588 | Excretion | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0007589 | Body_fluid_secretion | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007595 | Lactation | | | | | | | |
| _01 | 230 | 3 | 0.00111 | 0.175702 | 0 | 0 | 0.000270667 | |
| G0:0007596 | Blood_coagulation | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007597 | Blood_coagulation,_intrinsic_pathway | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007599 | Hemostasis | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007600 | Sensory_perception | | | | | | | |
| _01 | 126 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007601 | Visual_perception | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007602 | Phototransduction | | | | | | | |
| _01 | 68 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007605 | Sensory_perception_of_sound | | | | | | | |
| _01 | 291 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007608 | Sensory_perception_of_smell | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007610 | Behavior | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007611 | Learning_or_memory | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007612 | Learning | | | | | | | |
| _01 | 22 | 1 | 1 | 1 | 0 | 3.9e-05 | 0 | G0: |
| 0007613 | Memory | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007616 | Long-term_memory | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007617 | Mating_behavior | | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007623 | Circadian_rhythm | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007625 | Grooming_behavior | | | | | | | |
| _01 | 37 | 1 | 1 | 1 | 0 | 6.4e-05 | 0 | G0: |
| 0007626 | Locomotory_behavior | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007628 | Adult_walking_behavior | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0007631 | Feeding_behavior | | | | | | | |
| _01 | 32 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0008009 | Chemokine_activity | | | | | | | |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0008013 | Beta-catenin_binding | | | | | | | |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0008015 | Blood_circulation | | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0008016 | Regulation_of_heart_contraction | | | | | | | |
| _01 | 43 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0008017 | Microtubule_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |
| 0008020 | G-protein_coupled_photoreceptor_activity | | | | | | | |
| _01 | 36 | 0 | 1 | 1 | 0 | 0 | 0 | G0: |

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| 0008021 | Synaptic_vesicle | | | | | | | |
| _01 | 102 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008022 | Protein_C-terminus_binding | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008023 | Transcription_elongation_factor_complex | | | | | | | |
| _01 | 41 | 1 | 1 | 1 | 0 | 5.9e-05 | G0: | |
| 0008026 | ATP-dependent_helicase_activity | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008028 | Monocarboxylic_acid_transmembrane_transporter_activity | | | | | | | |
| _01 | 38 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008033 | TRNA_processing | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008035 | High-density_lipoprotein_binding | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008037 | Cell_recognition | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008038 | Neuron_recognition | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008045 | Motor_axon_guidance | | | | | | | |
| _01 | 30 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008047 | Enzyme_activator_activity | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008060 | ARF_GTPase_activator_activity | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008066 | Glutamate_receptor_activity | | | | | | | |
| _01 | 64 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008076 | Voltage-gated_potassium_channel_complex | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008080 | N-acetyltransferase_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008081 | Phosphoric_diester_hydrolase_activity | | | | | | | |
| _01 | 119 | 1 | 1 | 1 | 0 | 5.2e-05 | G0: | |
| 0008083 | Growth_factor_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008091 | Spectrin | | | | | | | |
| _01 | 27 | 1 | 1 | 1 | 0 | 5e-05 | G0: | |
| 0008092 | Cytoskeletal_protein_binding | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008093 | Cytoskeletal_adaptor_activity | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008094 | DNA-dependent_ATPase_activity | | | | | | | |
| _01 | 36 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008104 | Protein_localization | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008113 | Peptide-methionine-(S)-S-oxide_reductase_activity | | | | | | | |
| _01 | 145 | 2 | 0.00613999 | 0.407546 | 0 | 6.6e-05 | G0: | |
| G0:0008134 | Transcription_factor_binding | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008135 | Translation_factor_activity,_nucleic_acid_binding | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008137 | NADH_dehydrogenase_(ubiquinone)_activity | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008138 | Protein_tyrosine/serine/threonine_phosphatase_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0008139 | Nuclear_localization_sequence_binding | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008143 | Poly(A)_RNA_binding | | | | | | | |
| _01 | 37 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008144 | Drug_binding | | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008146 | Sulfotransferase_activity | | | | | | | |
| _01 | 361 | 1 | 1 | 1 | 0 | 0.000423 | | GO: |
| 0008150 | Biological_process | | | | | | | |
| _01 | 119 | 1 | 1 | 1 | 0 | 8.3e-05 | | GO: |
| 0008152 | Metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008154 | Actin_polymerization_or_depolymerization | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008156 | Negative_regulation_of_DNA_replication | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008158 | Hedgehog_receptor_activity | | | | | | | |
| _01 | 67 | 1 | 1 | 1 | 0 | 0.000423 | | GO: |
| 0008168 | Methyltransferase_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008180 | Signalosome | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008188 | Neuropeptide_receptor_activity | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008191 | Metalloendopeptidase_inhibitor_activity | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008195 | Phosphatidate_phosphatase_activity | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008198 | Ferrous_iron_binding | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008199 | Ferric_iron_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008200 | Ion_channel_inhibitor_activity | | | | | | | |
| _01 | 80 | 1 | 1 | 1 | 0 | 0.000339 | | GO: |
| 0008201 | Heparin_binding | | | | | | | |
| _01 | 47 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008202 | Steroid_metabolic_process | | | | | | | |
| _01 | 37 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008203 | Cholesterol_metabolic_process | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008206 | Bile_acid_metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008209 | Androgen_metabolic_process | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008210 | Estrogen_metabolic_process | | | | | | | |
| _01 | 37 | 1 | 1 | 1 | 0 | 3.9e-05 | | GO: |
| 0008217 | Regulation_of_blood_pressure | | | | | | | |
| _01 | 89 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008219 | Cell_death | | | | | | | |
| _01 | 293 | 2 | 0.019572 | 0.577468 | 0 | 7.35e-05 | | GO: |
| 0008233 | Peptidase_activity | | | | | | | |
| _01 | 34 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0008234 | Cysteine-type_peptidase_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |

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| 0008235 | Metalloexopeptidase_activity | | | | | | | |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008236 | Serine-type_peptidase_activity | | | | | | | |
| _01 | 58 | 1 | 1 | 1 | 0 | 6.4e-05 | G0: | |
| 0008237 | Metallopeptidase_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008239 | Dipeptidyl-peptidase_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008250 | Oligosaccharyltransferase_complex | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008253 | 5'-nucleotidase_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008266 | Poly(U)_RNA_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008271 | Secondary_active_sulfate_transmembrane_transporter_activity | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008272 | Sulfate_transport | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008276 | Protein_methyltransferase_activity | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008277 | Regulation_of_G-protein_coupled_receptor_protein_signaling_pathway | | | | | | | |
| _01 | 195 | 1 | 1 | 1 | 0 | 0.000344 | G0: | |
| 0008283 | Cell_proliferation | | | | | | | |
| _01 | 220 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008284 | Positive_regulation_of_cell_proliferation | | | | | | | |
| _01 | 218 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0008285 | Negative_regulation_of_cell_proliferation | | | | | | | |
| _01 | 97 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008286 | Insulin_receptor_signaling_pathway | | | | | | | |
| _01 | 6 | 1 | 1 | 1 | 0 | 0.000339 | G0: | |
| 0008287 | Protein_serine/threonine_phosphatase_complex | | | | | | | |
| _01 | 86 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0008289 | Lipid_binding | | | | | | | |
| _01 | 6 | 1 | 1 | 1 | 0 | 6.9e-05 | G0: | |
| 0008290 | F-actin_capping_protein_complex | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008299 | Isoprenoid_biosynthetic_process | | | | | | | |
| _01 | 33 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: | |
| 0008301 | DNA_bending_activity | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008305 | Integrin_complex | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008306 | Associative_learning | | | | | | | |
| _01 | 33 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008307 | Structural_constituent_of_muscle | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008312 | 7S_RNA_binding | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008324 | Cation_transmembrane_transporter_activity | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008333 | Endosome_to_lysome_transport | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0008334 | Histone_mRNA_metabolic_process | | | | | | | |

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| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008340 | Determination_of_adult_lifespan | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008343 | Adult_feeding_behavior | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008344 | Adult_locomotory_behavior | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008353 | RNA_polymerase_II_carboxy-terminal_domain_kinase_activity | | | | | | |
| _01 | 43 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0008360 | Regulation_of_cell_shape | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008373 | Sialyltransferase_activity | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008375 | Acetylglucosaminyltransferase_activity | | | | | | |
| _01 | 13 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0008378 | Galactosyltransferase_activity | | | | | | |
| _01 | 183 | 1 | 1 | 1 | 0 | 5.2e-05 | G0: |
| 0008380 | RNA_splicing | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008406 | Gonad_development | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008408 | 3'-5'_exonuclease_activity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008409 | 5'-3'_exonuclease_activity | | | | | | |
| _01 | 76 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008415 | Acyltransferase_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008417 | Fucosyltransferase_activity | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008430 | Selenium_binding | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008467 | [heparan_sulfate]-glucosamine_3-sulfotransferase_1_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008483 | Transaminase_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008503 | Benzodiazepine_receptor_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008509 | Anion_transmembrane_transporter_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008514 | Organic_anion_transmembrane_transporter_activity | | | | | | |
| _01 | 4 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008519 | Ammonium_transmembrane_transporter_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008527 | Taste_receptor_activity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008528 | Peptide_receptor_activity,_G-protein_coupled | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008535 | Respiratory_chain_complex_IV_assembly | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008536 | Ran_GTPase_binding | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008542 | Visual_learning | | | | | | |
| _01 | 38 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008543 | Fibroblast_growth_factor_receptor_signaling_pathway | | | | | | |

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| _01 | 54 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008544 | Epidermis_development | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008553 | Hydrogen-exporting_ATPase_activity,_phosphorylative_mechanism | | | | | | |
| _01 | 47 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008565 | Protein_transporter_activity | | | | | | |
| _01 | 33 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008584 | Male_gonad_development | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008585 | Female_gonad_development | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008589 | Regulation_of_smoothened_signaling_pathway | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008595 | Anterior/posterior_axis_specification,_embryo | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008601 | Protein_phosphatase_type_2A_regulator_activity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008603 | CAMP-dependent_protein_kinase_regulator_activity | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008610 | Lipid_biosynthetic_process | | | | | | |
| _01 | 52 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008624 | Induction_of_apoptosis_by_extracellular_signals | | | | | | |
| _01 | 6 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0008625 | Induction_of_apoptosis_via_death_domain_receptors | | | | | | |
| _01 | 28 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0008629 | Induction_of_apoptosis_by_intracellular_signals | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008630 | DNA_damage_response,_signal_transduction_resulting_in_induction_of_apoptosis | | | | | | |
| _01 | 6 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0008631 | Induction_of_apoptosis_by_oxidative_stress | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008633 | Activation_of_pro-apoptotic_gene_products | | | | | | |
| _01 | 5 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: |
| 0008634 | Negative_regulation_of_survival_gene_product_expression | | | | | | |
| _01 | 6 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0008635 | Activation_of_caspase_activity_by_cytochrome_c | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008637 | Apoptotic_mitochondrial_changes | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008643 | Carbohydrate_transport | | | | | | |
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008645 | Hexose_transport | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008652 | Cellular_amino_acid_biosynthetic_process | | | | | | |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008654 | Phospholipid_biosynthetic_process | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0008656 | Caspase_activator_activity | | | | | | |
| _01 | 5 | 1 | 1 | 1 | 0 | 0.000344 | G0: |
| 0008889 | Glycerophosphodiester_phosphodiesterase_activity | | | | | | |
| _01 | 89 | 0 | 1 | 1 | 0 | 0 | G0: |

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| 0009055 | Electron_carrier_activity | | | | | | | |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009058 | Biosynthetic_process | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009060 | Aerobic_respiration | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009062 | Fatty_acid_catabolic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009072 | Aromatic_amino_acid_family_metabolic_process | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009083 | Branched_chain_family_amino_acid_catabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009100 | Glycoprotein_metabolic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009101 | Glycoprotein_biosynthetic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009103 | Lipopolysaccharide_biosynthetic_process | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009116 | Nucleoside_metabolic_process | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009117 | Nucleotide_metabolic_process | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009168 | Purine_ribonucleoside_monophosphate_biosynthetic_process | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009267 | Cellular_response_to_starvation | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009268 | Response_to_pH | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009303 | RRNA_transcription | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009306 | Protein_secretion | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009311 | Oligosaccharide_metabolic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009312 | Oligosaccharide_biosynthetic_process | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009314 | Response_to_radiation | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009395 | Phospholipid_catabolic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009396 | Folic_acid-containing_compound_biosynthetic_process | | | | | | | |
| _01 | 35 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009408 | Response_to_heat | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009409 | Response_to_cold | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009411 | Response_to_UV | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009416 | Response_to_light_stimulus | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009434 | Microtubule-based_flagellum | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0009435 | NAD_biosynthetic_process | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | G0: |

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| 0009566 | Fertilization | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009605 | Response_to_external_stimulus | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009607 | Response_to_biotic_stimulus | | | | | | | |
| _01 | 37 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009611 | Response_to_wounding | | | | | | | |
| _01 | 33 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009612 | Response_to_mechanical_stimulus | | | | | | | |
| _01 | 81 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009615 | Response_to_virus | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009617 | Response_to_bacterium | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009629 | Response_to_gravity | | | | | | | |
| _01 | 39 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009636 | Response_to_toxin | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009650 | UV_protection | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009651 | Response_to_salt_stress | | | | | | | |
| _01 | 64 | 2 | 0.000601999 | 0.124557 | 0 | 0 | | |
| 0.0001945 | G0:0009653 | Anatomical_structure_morphogenesis | | | | | | |
| _01 | 35 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009725 | Response_to_hormone_stimulus | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009743 | Response_to_carbohydrate_stimulus | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009744 | Response_to_sucrose_stimulus | | | | | | | |
| _01 | 38 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009749 | Response_to_glucose_stimulus | | | | | | | |
| _01 | 5 | 1 | 1 | 1 | 0 | 3.9e-05 | | GO: |
| 0009750 | Response_to_fructose_stimulus | | | | | | | |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009755 | Hormone-mediated_signaling_pathway | | | | | | | |
| _01 | 69 | 1 | 1 | 1 | 0 | 6.3e-05 | | GO: |
| 0009790 | Embryo_development | | | | | | | |
| _01 | 41 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009791 | Post-embryonic_development | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009798 | Axis_specification | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009880 | Embryonic_pattern_specification | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009881 | Photoreceptor_activity | | | | | | | |
| _01 | 80 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009887 | Organ_morphogenesis | | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009888 | Tissue_development | | | | | | | |
| _01 | 80 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009897 | External_side_of_plasma_membrane | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009898 | Internal_side_of_plasma_membrane | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | | GO: |

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| 0009925 | Basal_plasma_membrane | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009948 | Anterior/posterior_axis_specification | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009950 | Dorsal/ventral_axis_specification | | | | | | | |
| _01 | 62 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009952 | Anterior/posterior_pattern_formation | | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009953 | Dorsal/ventral_pattern_formation | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009954 | Proximal/distal_pattern_formation | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009966 | Regulation_of_signal_transduction | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009967 | Positive_regulation_of_signal_transduction | | | | | | | |
| _01 | 31 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009968 | Negative_regulation_of_signal_transduction | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009982 | Pseudouridine_synthase_activity | | | | | | | |
| _01 | 161 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009986 | Cell_surface | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0009987 | Cellular_process | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0010001 | Glial_cell_differentiation | | | | | | | |
| _01 | 63 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0010008 | Endosome_membrane | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0010033 | Response_to_organic_substance | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0010035 | Response_to_inorganic_substance | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0010038 | Response_to_metal_ion | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0010043 | Response_to_zinc_ion | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0010165 | Response_to_X-ray | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0010181 | FMN_binding | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0010212 | Response_to_ionizing_radiation | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0010224 | Response_to_UV-B | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0010225 | Response_to_UV-C | | | | | | | |
| _01 | 24 | 1 | 1 | 1 | 0 | 3.9e-05 | | GO: |
| 0010243 | Response_to_organic_nitrogen | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0010269 | Response_to_selenium_ion | | | | | | | |
| _01 | 9 | 1 | 1 | 1 | 0 | 0.000339 | | GO: |
| 0010288 | Response_to_lead_ion | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0010310 | Regulation_of_hydrogen_peroxide_metabolic_process | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | | GO: |

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| 0010332 | Response_to_gamma_radiation | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010390 | Histone_monoubiquitination | | | | | | | |
| _01 | 263 | 1 | 1 | 1 | 0 | 5.2e-05 | G0: | |
| 0010467 | Gene_expression | | | | | | | |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010468 | Regulation_of_gene_expression | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010494 | Stress_granule | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010510 | Regulation_of_acetyl-CoA_biosynthetic_process_from_pyruvate | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010524 | Positive_regulation_of_calcium_ion_transport_into_cytosol | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010544 | Negative_regulation_of_platelet_activation | | | | | | | |
| _01 | 46 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: | |
| 0010551 | Regulation_of_gene-specific_transcription_from_RNA_polymerase_II_promoter | | | | | | | |
| _01 | 74 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: | |
| 0010552 | Positive_regulation_of_gene-specific_transcription_from_RNA_polymerase_II_promoter | | | | | | | |
| _01 | 53 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010553 | Negative_regulation_of_gene-specific_transcription_from_RNA_polymerase_II_promoter | | | | | | | |
| _01 | 9 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0010575 | Positive_regulation_vascular_endothelial_growth_factor_production | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010595 | Positive_regulation_of_endothelial_cell_migration | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010596 | Negative_regulation_of_endothelial_cell_migration | | | | | | | |
| _01 | 35 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010628 | Positive_regulation_of_gene_expression | | | | | | | |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010629 | Negative_regulation_of_gene_expression | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010634 | Positive_regulation_of_epithelial_cell_migration | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010670 | Positive_regulation_of_oxygen_and_reactive_oxygen_species_metabolic_process | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010718 | Positive_regulation_of_epithelial_to_mesenchymal_transition | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010719 | Negative_regulation_of_epithelial_to_mesenchymal_transition | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010744 | Positive_regulation_of_macrophage_derived_foam_cell_differentiation | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010745 | Negative_regulation_of_macrophage_derived_foam_cell_differentiation | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0010765 | Positive_regulation_of_sodium_ion_transport | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0014911 | Positive_regulation_of_smooth_muscle_cell_migration | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0014912 | Negative_regulation_of_smooth_muscle_cell_migration | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015012 | Heparan_sulfate_proteoglycan_biosynthetic_process | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015020 | Glucuronosyltransferase_activity | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015026 | Coreceptor_activity | | | | | | |
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015030 | Cajal_body | | | | | | |
| _01 | 256 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015031 | Protein_transport | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015035 | Protein_disulfide_oxidoreductase_activity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015074 | DNA_integration | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015075 | Ion_transmembrane_transporter_activity | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015078 | Hydrogen_ion_transmembrane_transporter_activity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015101 | Organic_cation_transmembrane_transporter_activity | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015171 | Amino_acid_transmembrane_transporter_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015175 | Neutral_amino_acid_transmembrane_transporter_activity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015250 | Water_channel_activity | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015267 | Channel_activity | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015269 | Calcium-activated_potassium_channel_activity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015277 | Kainate_selective_glutamate_receptor_activity | | | | | | |
| _01 | 77 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015293 | Symporter_activity | | | | | | |
| _01 | 23 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015297 | Antiporter_activity | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015299 | Solute:hydrogen_antipporter_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015301 | Anion:anion_antipporter_activity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015321 | Sodium-dependent_phosphate_transmembrane_transporter_activity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015347 | Sodium-independent_organic_anion_transmembrane_transporter_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015355 | Secondary_active_monocarboxylate_transmembrane_transporter_activity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |

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| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015986 | ATP_synthesis_coupled_proton_transport | | | | | | G0: |
| _01 | 30 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0015992 | Proton_transport | | | | | | G0: |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016010 | Dystrophin-associated_glycoprotein_complex | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016012 | Sarcoglycan_complex | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016018 | Cyclosporin_A_binding | | | | | | G0: |
| _01 | 64 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0016023 | Cytoplasmic_membrane-bounded_vesicle | | | | | | G0: |
| _01 | 195 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016032 | Viral_reproduction | | | | | | G0: |
| _01 | 56 | 1 | 1 | 1 | 0 | 0.000344 | G0: |
| 0016042 | Lipid_catabolic_process | | | | | | G0: |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016043 | Cellular_component_organization | | | | | | G0: |
| _01 | 41 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016044 | Cellular_membrane_organization | | | | | | G0: |
| _01 | 35 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016049 | Cell_growth | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016050 | Vesicle_organization | | | | | | G0: |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016051 | Carbohydrate_biosynthetic_process | | | | | | G0: |
| _01 | 58 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016055 | Wnt_receptor_signaling_pathway | | | | | | G0: |
| _01 | 55 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016070 | RNA_metabolic_process | | | | | | G0: |
| _01 | 33 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016071 | mRNA_metabolic_process | | | | | | G0: |
| _01 | 6 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0016079 | Synaptic_vesicle_exocytosis | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016126 | Sterol_biosynthetic_process | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016165 | Lipoxygenase_activity | | | | | | G0: |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016180 | snRNA_processing | | | | | | G0: |
| _01 | 117 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016192 | Vesicle-mediated_transport | | | | | | G0: |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016197 | Endosome_transport | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016208 | AMP_binding | | | | | | G0: |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016209 | Antioxidant_activity | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016226 | Iron-sulfur_cluster_assembly | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016234 | Inclusion_body | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016235 | Aggresome | | | | | | G0: |

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| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016251 | General_RNA_polymerase_II_transcription_factor_activity | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016254 | Preassembly_of_GPI_anchor_in_ER_membrane | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016272 | Prefoldin_complex | | | | | | G0: |
| _01 | 79 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016301 | Kinase_activity | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016303 | 1-phosphatidylinositol-3-kinase_activity | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016308 | 1-phosphatidylinositol-4-phosphate_5-kinase_activity | | | | | | G0: |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016310 | Phosphorylation | | | | | | G0: |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016311 | Dephosphorylation | | | | | | G0: |
| _01 | 80 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016323 | Basolateral_plasma_membrane | | | | | | G0: |
| _01 | 117 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016324 | Apical_plasma_membrane | | | | | | G0: |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016328 | Lateral_plasma_membrane | | | | | | G0: |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016331 | Morphogenesis_of_embryonic_epithelium | | | | | | G0: |
| _01 | 54 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016337 | Cell-cell_adhesion | | | | | | G0: |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016338 | Calcium-independent_cell-cell_adhesion | | | | | | G0: |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016339 | Calcium-dependent_cell-cell_adhesion | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016342 | Catenin_complex | | | | | | G0: |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016358 | Dendrite_development | | | | | | G0: |
| _01 | 44 | 1 | 1 | 1 | 0 | 7.4e-05 | G0: |
| 0016363 | Nuclear_matrix | | | | | | G0: |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016407 | Acetyltransferase_activity | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016409 | Palmitoyltransferase_activity | | | | | | G0: |
| _01 | 23 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016455 | RNA_polymerase_II_transcription_mediator_activity | | | | | | G0: |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016459 | Myosin_complex | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016461 | Unconventional_myosin_complex | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016471 | Vacuolar_proton-transporting_V-type_ATPase_complex | | | | | | G0: |
| _01 | 51 | 2 | 0.001313 | 0.19455 | 0 | 5.7e-05 | G0: |
| 0016477 | Cell_migration | | | | | | G0: |
| _01 | 100 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0016481 | Negative_regulation_of_transcription | | | | | | G0: |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016485 | Protein_processing | | | | | | G0: |

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| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016486 | Peptide_hormone_processing | | | | | | |
| _01 | 263 | 2 | 0.011199 | 0.494678 | 0 | 0.000231 | G0: |
| 0016491 | Oxidoreductase_activity | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016493 | C-C_chemokine_receptor_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016500 | Protein-hormone_receptor_activity | | | | | | |
| _01 | 4 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016503 | Pheromone_receptor_activity | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016514 | SWI/SNF_complex | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016525 | Negative_regulation_of_angiogenesis | | | | | | |
| _01 | 23 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016529 | Sarcoplasmic_reticulum | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016538 | Cyclin-dependent_protein_kinase_regulator_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016558 | Protein_import_into_peroxisome_matrix | | | | | | |
| _01 | 210 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: |
| 0016563 | Transcription_activator_activity | | | | | | |
| _01 | 151 | 1 | 1 | 1 | 0 | 7.4e-05 | G0: |
| 0016564 | Transcription_repressor_activity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016565 | General_transcriptional_repressor_activity | | | | | | |
| _01 | 61 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: |
| 0016566 | Specific_transcriptional_repressor_activity | | | | | | |
| _01 | 64 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016567 | Protein_ubiquitination | | | | | | |
| _01 | 134 | 2 | 0.00593299 | 0.398216 | 0 | 0.0002485 | G0:0016568 |
| 0016568 | Chromatin_modification | | | | | | |
| _01 | 8 | 1 | 1 | 1 | 0 | 7.4e-05 | G0: |
| 0016571 | Histone_methylation | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016573 | Histone_acetylation | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016575 | Histone_deacetylation | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016578 | Histone_deubiquitination | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016579 | Protein_deubiquitination | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016580 | Sin3_complex | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016581 | NuRD_complex | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016585 | Chromatin_remodeling_complex | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016591 | DNA-directed_RNA_polymerase_II,_holoenzyme | | | | | | |
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016592 | Mediator_complex | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016594 | Glycine_binding | | | | | | |

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|------------|---|---|----------|-----------|---|------------|-----|
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016595 | Glutamate_binding | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016597 | Amino_acid_binding | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016601 | Rac_protein_signal_transduction | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016604 | Nuclear_body | | | | | | |
| _01 | 26 | 1 | 1 | 1 | 0 | 7.4e-05 | G0: |
| 0016605 | PML_body | | | | | | |
| _01 | 85 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0016607 | Nuclear_speck | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016616 | Oxidoreductase_activity,_acting_on_the_CH-OH_group_of_donors,_NAD_or_NADP_as_acceptor | | | | | | |
| _01 | 38 | 2 | 0.000314 | 0.0893319 | 0 | 0.000231 | |
| G0:0016702 | Oxidoreductase_activity,_acting_on_single_donors_with_incorporation_of_molecular_oxygen,_incorporation_of_two_atoms_of_oxygen | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016705 | Oxidoreductase_activity,_acting_on_paired_donors,_with_incorporation_or_reduction_of_molecular_oxygen | | | | | | |
| _01 | 711 | 2 | 0.1261 | 0.836466 | 0 | 0.0002365 | |
| G0:0016740 | Transferase_activity | | | | | | |
| _01 | 88 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0016757 | Transferase_activity,_transferring_glycosyl_groups | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016758 | Transferase_activity,_transferring_hexosyl_groups | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016769 | Transferase_activity,_transferring_nitrogenous_groups | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016773 | Phosphotransferase_activity,_alcohol_group_as_acceptor | | | | | | |
| _01 | 45 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016779 | Nucleotidyltransferase_activity | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016780 | Phosphotransferase_activity,_for_other_substituted_phosphate_groups | | | | | | |
| _01 | 583 | 4 | 0.001131 | 0.177593 | 0 | 0.00012625 | |
| G0:0016787 | Hydrolase_activity | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016788 | Hydrolase_activity,_acting_on_ester_bonds | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016790 | Thiolester_hydrolase_activity | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016791 | Phosphatase_activity | | | | | | |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016798 | Hydrolase_activity,_acting_on_glycosyl_bonds | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016805 | Dipeptidase_activity | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016810 | Hydrolase_activity,_acting_on_carbon-nitrogen_(but_not_peptide)_bonds | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |

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| 0016818 | Hydrolase_activity,_acting_on_acid_anhydrides,_in_phosphorus-containing_anhydrides | | | | | | |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016820 | Hydrolase_activity,_acting_on_acid_anhydrides,_catalyzing_transmembrane_movement_of_substances | | | | | | |
| _01 | 67 | 2 | 0.000477 | 0.10964 | 0 | 5.1e-05 | G0: |
| 0016829 | Lyase_activity | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016831 | Carboxy-lyase_activity | | | | | | |
| _01 | 65 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016853 | Isomerase_activity | | | | | | |
| _01 | 217 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0016874 | Ligase_activity | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016881 | Acid-amino_acid_ligase_activity | | | | | | |
| _01 | 81 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016887 | ATPase_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016918 | Retinal_binding | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016922 | Ligand-dependent_nuclear_receptor_binding | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016925 | Protein_sumoylation | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016944 | RNA_polymerase_II_transcription_elongation_factor_activity | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0016998 | Cell_wall_macromolecule_catabolic_process | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0017015 | Regulation_of_transforming_growth_factor_beta_receptor_signaling_pathway | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0017016 | Ras_GTPase_binding | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0017017 | MAP_kinase_tyrosine/serine/threonine_phosphatase_activity | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0017022 | Myosin_binding | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0017025 | TATA-binding_protein_binding | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0017046 | Peptide_hormone_binding | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0017048 | Rho_GTPase_binding | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0017049 | GTP-Rho_binding | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0017053 | Transcriptional_repressor_complex | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0017075 | Syntaxin-1_binding | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0017076 | Purine_nucleotide_binding | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |

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| 0017091 | AU-rich_element_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017110 | Nucleoside-diphosphatase_activity | | | | | | | |
| _01 | 37 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017111 | Nucleoside-triphosphatase_activity | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017119 | Golgi_transport_complex | | | | | | | |
| _01 | 74 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017124 | SH3_domain_binding | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017127 | Cholesterol_transporter_activity | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017134 | Fibroblast_growth_factor_binding | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017137 | Rab_GTPase_binding | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017144 | Drug_metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017146 | N-methyl-D-aspartate_selective_glutamate_receptor_complex | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017147 | Wnt-protein_binding | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017148 | Negative_regulation_of_translation | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017153 | Sodium:dicarboxylate_symporter_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017154 | Semaphorin_receptor_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017156 | Calcium_ion-dependent_exocytosis | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017157 | Regulation_of_exocytosis | | | | | | | |
| _01 | 8 | 1 | 1 | 1 | 0 | 5e-05 | | G0: |
| 0017158 | Regulation_of_calcium_ion-dependent_exocytosis | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0017166 | Vinculin_binding | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0018024 | Histone-lysine_N-methyltransferase_activity | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0018105 | Peptidyl-serine_phosphorylation | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0018107 | Peptidyl-threonine_phosphorylation | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0018108 | Peptidyl-tyrosine_phosphorylation | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0018149 | Peptide_cross-linking | | | | | | | |
| _01 | 32 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0018279 | Protein_N-linked_glycosylation_via_asparagine | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0018298 | Protein-chromophore_linkage | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0019001 | Guanyl_nucleotide_binding | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0019003 | GDP_binding | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | G0: |

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| 0019005 | SCF_ubiquitin_ligase_complex | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019047 | Provirus_integration | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019048 | Virus-host_interaction | | | | | | | |
| _01 | 62 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019058 | Viral_infectious_cycle | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019059 | Initiation_of_viral_infection | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019079 | Viral_genome_replication | | | | | | | |
| _01 | 59 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019083 | Viral_transcription | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019104 | DNA_N-glycosylase_activity | | | | | | | |
| _01 | 9 | 1 | 1 | 1 | 0 | 0.000339 | G0: | |
| 0019216 | Regulation_of_lipid_metabolic_process | | | | | | | |
| _01 | 35 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019221 | Cytokine-mediated_signaling_pathway | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019228 | Regulation_of_action_potential_in_neuron | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019229 | Regulation_of_vasoconstriction | | | | | | | |
| _01 | 23 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019233 | Sensory_perception_of_pain | | | | | | | |
| _01 | 4 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019236 | Response_to_pheromone | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019237 | Centromeric_DNA_binding | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019363 | Pyridine_nucleotide_biosynthetic_process | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019370 | Leukotriene_biosynthetic_process | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019430 | Removal_of_superoxide_radicals | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019432 | Triglyceride_biosynthetic_process | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019433 | Triglyceride_catabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019439 | Aromatic_compound_catabolic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019538 | Protein_metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019674 | NAD_metabolic_process | | | | | | | |
| _01 | 64 | 1 | 1 | 1 | 0 | 5e-05 | G0: | |
| 0019717 | Synaptosome | | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019722 | Calcium-mediated_signaling | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019725 | Cellular_homeostasis | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019752 | Carboxylic_acid_metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0019800 | Peptide_cross-linking_via_chondroitin_4-sulfate_glycosaminoglycan | | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019825 | Oxygen_binding | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019827 | Stem_cell_maintenance | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019835 | Cytolysis | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019838 | Growth_factor_binding | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019841 | Retinol_binding | | | | | | | |
| _01 | 16 | 1 | 1 | 1 | 0 | 0.000423 | G0: | |
| 0019843 | RRNA_binding | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019861 | Flagellum | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019882 | Antigen_processing_and_presentation | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019894 | Kinesin_binding | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019897 | Extrinsic_to_plasma_membrane | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019898 | Extrinsic_to_membrane | | | | | | | |
| _01 | 103 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0019899 | Enzyme_binding | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019900 | Kinase_binding | | | | | | | |
| _01 | 86 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019901 | Protein_kinase_binding | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019903 | Protein_phosphatase_binding | | | | | | | |
| _01 | 80 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: | |
| 0019904 | Protein_domain_specific_binding | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019905 | Syntaxin_binding | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019915 | Lipid_storage | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019933 | CAMP-mediated_signaling | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019955 | Cytokine_binding | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0019992 | Diacylglycerol_binding | | | | | | | |
| _01 | 76 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0020037 | Heme_binding | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0021510 | Spinal_cord_development | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0021527 | Spinal_cord_association_neuron_differentiation | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0021537 | Telencephalon_development | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0021549 | Cerebellum_development | | | | | | | |

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| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0021675 | Nerve_development | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0021756 | Striatum_development | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0021766 | Hippocampus_development | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0021772 | Olfactory_bulb_development | | | | | | |
| _01 | 10 | 1 | 1 | 1 | 0 | 0.000339 | G0: |
| 0021904 | Dorsal/ventral_neural_tube_patterning | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0021915 | Neural_tube_development | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0021953 | Central_nervous_system_neuron_differentiation | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0021954 | Central_nervous_system_neuron_development | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0021983 | Pituitary_gland_development | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0021987 | Cerebral_cortex_development | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0022008 | Neurogenesis | | | | | | |
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0022625 | Cytosolic_large_ribosomal_subunit | | | | | | |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0022627 | Cytosolic_small_ribosomal_subunit | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0022857 | Transmembrane_transporter_activity | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0022891 | Substrate-specific_transmembrane_transporter_activity | | | | | | |
| _01 | 31 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0022900 | Electron_transport_chain | | | | | | |
| _01 | 48 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0022904 | Respiratory_electron_transport_chain | | | | | | |
| _01 | 202 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0023034 | Intracellular_signaling_pathway | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030010 | Establishment_of_cell_polarity | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030016 | Myofibril | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030017 | Sarcomere | | | | | | |
| _01 | 36 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030018 | Z_disc | | | | | | |
| _01 | 50 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030027 | Lamellipodium | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030030 | Cell_projection_organization | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030031 | Cell_projection_assembly | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030032 | Lamellipodium_assembly | | | | | | |
| _01 | 80 | 2 | 0.00546999 | | 0.382459 | 0 | 5.95e-05 |
| G0:0030036 | Actin_cytoskeleton_organization | | | | | | |

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| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030041 | Actin_filament_polymerization | | | | | | G0: |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030048 | Actin_filament-based_movement | | | | | | G0: |
| _01 | 31 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030049 | Muscle_filament_sliding | | | | | | G0: |
| _01 | 299 | 2 | 0.0549819 | | 0.710953 | 0 | 4.55e-05 |
| G0:0030054 | Cell_junction | | | | | | G0: |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030057 | Desmosome | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030071 | Regulation_of_mitotic_metaphase/anaphase_transition | | | | | | G0: |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030073 | Insulin_secretion | | | | | | G0: |
| _01 | 39 | 2 | 0.000805999 | | 0.146665 | 0 | |
| 0.0005335 | G0:0030097 Hemopoiesis | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030099 | Myeloid_cell_differentiation | | | | | | G0: |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030100 | Regulation_of_endocytosis | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030101 | Natural_killer_cell_activation | | | | | | G0: |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030111 | Regulation_of_Wnt_receptor_signaling_pathway | | | | | | G0: |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030117 | Membrane_coat | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030121 | AP-1_adaptor_complex | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030122 | AP-2_adaptor_complex | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030126 | COPI_vesicle_coat | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030130 | Clathrin_coat_of_trans-Golgi_network_vesicle | | | | | | G0: |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030131 | Clathrin_adaptor_complex | | | | | | G0: |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030133 | Transport_vesicle | | | | | | G0: |
| _01 | 23 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030136 | Clathrin-coated_vesicle | | | | | | G0: |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030139 | Endocytic_vesicle | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030140 | Trans-Golgi_network_transport_vesicle | | | | | | G0: |
| _01 | 41 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030141 | Stored_secretory_granule | | | | | | G0: |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030145 | Manganese_ion_binding | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030146 | Diuresis | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030147 | Natriuresis | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030148 | Sphingolipid_biosynthetic_process | | | | | | G0: |

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| _01 | 319 | 2 | 0.030068 | 0.638468 | 0 | 6.65e-05 | G0: |
| 0030154 | Cell_differentiation | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030155 | Regulation_of_cell_adhesion | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030159 | Receptor_signaling_complex_scaffold_activity | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030162 | Regulation_of_proteolysis | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030163 | Protein_catabolic_process | | | | | | |
| _01 | 34 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030165 | PDZ_domain_binding | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030166 | Proteoglycan_biosynthetic_process | | | | | | |
| _01 | 157 | 3 | 0.000547999 | 0.119056 | 0 | 0.000270667 | G0:0030168 |
| 0030168 | Platelet_activation | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030169 | Low-density_lipoprotein_binding | | | | | | |
| _01 | 32 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030170 | Pyridoxal_phosphate_binding | | | | | | |
| _01 | 33 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030173 | Integral_to_Golgi_membrane | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030175 | Filopodium | | | | | | |
| _01 | 37 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030176 | Integral_to_endoplasmic_reticulum_membrane | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030177 | Positive_regulation_of_Wnt_receptor_signaling_pathway | | | | | | |
| _01 | 24 | 1 | 1 | 1 | 0 | 0.000339 | G0: |
| 0030178 | Negative_regulation_of_Wnt_receptor_signaling_pathway | | | | | | |
| _01 | 46 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030182 | Neuron_differentiation | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030183 | B_cell_differentiation | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030193 | Regulation_of_blood_coagulation | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030195 | Negative_regulation_of_blood_coagulation | | | | | | |
| _01 | 41 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030198 | Extracellular_matrix_organization | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030199 | Collagen_fibril_organization | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030206 | Chondroitin_sulfate_biosynthetic_process | | | | | | |
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030216 | Keratinocyte_differentiation | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030217 | T_cell_differentiation | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030218 | Erythrocyte_differentiation | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030225 | Macrophage_differentiation | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030234 | Enzyme_regulator_activity | | | | | | |

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| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030235 | Nitric-oxide_synthase_regulator_activity | | | | | | G0: |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030246 | Carbohydrate_binding | | | | | | G0: |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030247 | Polysaccharide_binding | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030252 | Growth_hormone_secretion | | | | | | G0: |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030261 | Chromosome_condensation | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030274 | LIM_domain_binding | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030276 | Clathrin_binding | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030278 | Regulation_of_ossification | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030279 | Negative_regulation_of_ossification | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030280 | Structural_constituent_of_epidermis | | | | | | G0: |
| _01 | 15 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: |
| 0030282 | Bone_mineralization | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030286 | Dynein_complex | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030288 | Outer_membrane-bounded_periplasmic_space | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030295 | Protein_kinase_activator_activity | | | | | | G0: |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030301 | Cholesterol_transport | | | | | | G0: |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030307 | Positive_regulation_of_cell_growth | | | | | | G0: |
| _01 | 66 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030308 | Negative_regulation_of_cell_growth | | | | | | G0: |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030315 | T-tubule | | | | | | G0: |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030316 | Osteoclast_differentiation | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030317 | Sperm_motility | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030318 | Melanocyte_differentiation | | | | | | G0: |
| _01 | 47 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: |
| 0030324 | Lung_development | | | | | | G0: |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030325 | Adrenal_gland_development | | | | | | G0: |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030326 | Embryonic_limb_morphogenesis | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030330 | DNA_damage_response,_signal_transduction_by_p53_class_mediator | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030331 | Estrogen_receptor_binding | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |

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| 0030332 | Cyclin_binding | | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030334 | Regulation_of_cell_migration | | | | | | | |
| _01 | 52 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030335 | Positive_regulation_of_cell_migration | | | | | | | |
| _01 | 33 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030336 | Negative_regulation_of_cell_migration | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030374 | Ligand-dependent_nuclear_receptor_transcription_coactivator_activity | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030384 | Phosphoinositide_metabolic_process | | | | | | | |
| _01 | 56 | 1 | 1 | 1 | 0 | 0.000339 | G0: | |
| 0030414 | Peptidase_inhibitor_activity | | | | | | | |
| _01 | 89 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030424 | Axon | | | | | | | |
| _01 | 91 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030425 | Dendrite | | | | | | | |
| _01 | 45 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030426 | Growth_cone | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030431 | Sleep | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030432 | Peristalsis | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030433 | ER-associated_protein_catabolic_process | | | | | | | |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030496 | Midbody | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030500 | Regulation_of_bone_mineralization | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030501 | Positive_regulation_of_bone_mineralization | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030506 | Ankyrin_binding | | | | | | | |
| _01 | 7 | 1 | 1 | 1 | 0 | 6.9e-05 | G0: | |
| 0030507 | Spectrin_binding | | | | | | | |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030509 | BMP_signaling_pathway | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030511 | Positive_regulation_of_transforming_growth_factor_beta_receptor_signaling_pathway | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030512 | Negative_regulation_of_transforming_growth_factor_beta_receptor_signaling_pathway | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030514 | Negative_regulation_of_BMP_signaling_pathway | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030515 | SnoRNA_binding | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030518 | Steroid_hormone_receptor_signaling_pathway | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0030520 | Estrogen_receptor_signaling_pathway | | | | | | | |

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| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030521 | Androgen_receptor_signaling_pathway | | | | | | |
| _01 | 192 | 2 | 0.004723 | 0.359966 | 0 | 0.000204 | G0: |
| 0030528 | Transcription_regulator_activity | | | | | | |
| _01 | 71 | 1 | 1 | 1 | 0 | 5.2e-05 | G0: |
| 0030529 | Ribonucleoprotein_complex | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030530 | Heterogeneous_nuclear_ribonucleoprotein_complex | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030532 | Small_nuclear_ribonucleoprotein_complex | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030539 | Male_genitalia_development | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030552 | CAMP_binding | | | | | | |
| _01 | 19 | 1 | 1 | 1 | 0 | 8.3e-05 | G0: |
| 0030574 | Collagen_catabolic_process | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030593 | Neutrophil_chemotaxis | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030595 | Leukocyte_chemotaxis | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030658 | Transport_vesicle_membrane | | | | | | |
| _01 | 47 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0030659 | Cytoplasmic_vesicle_membrane | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030660 | Golgi-associated_vesicle_membrane | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030665 | Clathrin_coated_vesicle_membrane | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030666 | Endocytic_vesicle_membrane | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030667 | Secretory_granule_membrane | | | | | | |
| _01 | 32 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0030672 | Synaptic_vesicle_membrane | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030673 | Axolemma | | | | | | |
| _01 | 38 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030674 | Protein_binding,_bridging | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030675 | Rac_GTPase_activator_activity | | | | | | |
| _01 | 5 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: |
| 0030728 | Ovulation | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030742 | GTP-dependent_protein_binding | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030818 | Negative_regulation_of_cAMP_biosynthetic_process | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030819 | Positive_regulation_of_cAMP_biosynthetic_process | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030828 | Positive_regulation_of_cGMP_biosynthetic_process | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030833 | Regulation_of_actin_filament_polymerization | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030838 | Positive_regulation_of_actin_filament_polymerization | | | | | | |

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| _01 | 30 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030855 | Epithelial_cell_differentiation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030856 | Regulation_of_epithelial_cell_differentiation | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030863 | Cortical_cytoskeleton | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030864 | Cortical_actin_cytoskeleton | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030866 | Cortical_actin_cytoskeleton_organization | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030867 | Rough_endoplasmic_reticulum_membrane | | | | | | |
| _01 | 4 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030868 | Smooth_endoplasmic_reticulum_membrane | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030878 | Thyroid_gland_development | | | | | | |
| _01 | 21 | 1 | 1 | 1 | 0 | 5.2e-05 | G0: |
| 0030879 | Mammary_gland_development | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030889 | Negative_regulation_of_B_cell_proliferation | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030890 | Positive_regulation_of_B_cell_proliferation | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030897 | HOPS_complex | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030898 | Actin-dependent_ATPase_activity | | | | | | |
| _01 | 36 | 1 | 1 | 1 | 0 | 0.000339 | G0: |
| 0030900 | Forebrain_development | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030901 | Midbrain_development | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030902 | Hindbrain_development | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030914 | STAGA_complex | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030949 | Positive_regulation_of_vascular_endothelial_growth_factor_receptor_s ignaling_pathway | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030968 | Endoplasmic_reticulum_unfolded_protein_response | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030970 | Retrograde_protein_transport,_ER_to_cytosol | | | | | | |
| _01 | 7 | 1 | 1 | 1 | 0 | 5.2e-05 | G0: |
| 0030971 | Receptor_tyrosine_kinase_binding | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0030983 | Mismatched_DNA_binding | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031000 | Response_to_caffeine | | | | | | |
| _01 | 83 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031012 | Extracellular_matrix | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031013 | Troponin_I_binding | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031016 | Pancreas_development | | | | | | |

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|-----------|--|---|-------------|----------|---|----------|-----|
| _01 | 82 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031018 | Endocrine_pancreas_development | | | | | | G0: |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031047 | Gene_silencing_by_RNA | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031054 | Pre-microRNA_processing | | | | | | G0: |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031069 | Hair_follicle_morphogenesis | | | | | | G0: |
| _01 | 39 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031072 | Heat_shock_protein_binding | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031080 | Nup107-160_complex | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031091 | Platelet_alpha_granule | | | | | | G0: |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031092 | Platelet_alpha_granule_membrane | | | | | | G0: |
| _01 | 26 | 2 | 8.49999e-05 | 0.034596 | 0 | 0 | G0: |
| 0.0001945 | G0:0031093 Platelet_alpha_granule_lumen | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031095 | Platelet_dense_tubular_network_membrane | | | | | | G0: |
| _01 | 31 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031100 | Organ_regeneration | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031103 | Axon_regeneration | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031105 | Septin_complex | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031116 | Positive_regulation_of_microtubule_polymerization | | | | | | G0: |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031124 | MRNA_3'-end_processing | | | | | | G0: |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031143 | Pseudopodium | | | | | | G0: |
| _01 | 56 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0031145 | Anaphase-promoting_complex-dependent_proteasomal_ubiquitin-dependent_protein_catabolic_process | | | | | | G0: |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031146 | SCF-dependent_proteasomal_ubiquitin-dependent_protein_catabolic_process | | | | | | G0: |
| _01 | 33 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031175 | Neuron_projection_development | | | | | | G0: |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031201 | SNARE_complex | | | | | | G0: |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031214 | Biomineral_tissue_development | | | | | | G0: |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031224 | Intrinsic_to_membrane | | | | | | G0: |
| _01 | 68 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031225 | Anchored_to_membrane | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031227 | Intrinsic_to_endoplasmic_reticulum_membrane | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031234 | Extrinsic_to_internal_side_of_plasma_membrane | | | | | | G0: |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031252 | Cell_leading_edge | | | | | | G0: |

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|---------|--|---|---|---|---|-------|-----|
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031258 | Lamellipodium_membrane | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031274 | Positive_regulation_of_pseudopodium_assembly | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031290 | Retinal_ganglion_cell_axon_guidance | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031293 | Membrane_protein_intracellular_domain_proteolysis | | | | | | |
| _01 | 36 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031295 | T_cell_costimulation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031307 | Integral_to_mitochondrial_outer_membrane | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031397 | Negative_regulation_of_protein_ubiquitination | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031398 | Positive_regulation_of_protein_ubiquitination | | | | | | |
| _01 | 164 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0031410 | Cytoplasmic_vesicle | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031418 | L-ascorbic_acid_binding | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031419 | Cobalamin_binding | | | | | | |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031424 | Keratinization | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031430 | M_band | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031432 | Titin_binding | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031434 | Mitogen-activated_protein_kinase_kinase_binding | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031435 | Mitogen-activated_protein_kinase_kinase_kinase_binding | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031461 | Cullin-RING_ubiquitin_ligase_complex | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031463 | Cul3-RING_ubiquitin_ligase_complex | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031490 | Chromatin_DNA_binding | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031513 | Nonmotile_primary_cilium | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031514 | Motile_cilium | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031519 | PcG_protein_complex | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031526 | Brush_border_membrane | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031527 | Filopodium_membrane | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031528 | Microvillus_membrane | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031529 | Ruffle_organization | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031532 | Actin_cytoskeleton_reorganization | | | | | | |

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|---------|--|---|---|---|---|---------|-----|
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031572 | G2/M_transition_DNA_damage_checkpoint | | | | | | G0: |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031581 | Hemidesmosome_assembly | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031593 | Polyubiquitin_binding | | | | | | G0: |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031594 | Neuromuscular_junction | | | | | | G0: |
| _01 | 8 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: |
| 0031622 | Positive_regulation_of_fever | | | | | | G0: |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031623 | Receptor_internalization | | | | | | G0: |
| _01 | 49 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031625 | Ubiquitin_protein_ligase_binding | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031647 | Regulation_of_protein_stability | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031648 | Protein_destabilization | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031659 | Positive_regulation_of_cyclin-dependent_protein_kinase_activity_involved_in_G1/S | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031663 | Lipopolysaccharide-mediated_signaling_pathway | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031667 | Response_to_nutrient_levels | | | | | | G0: |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031668 | Cellular_response_to_extracellular_stimulus | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031672 | A_band | | | | | | G0: |
| _01 | 7 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0031674 | I_band | | | | | | G0: |
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031901 | Early_endosome_membrane | | | | | | G0: |
| _01 | 36 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031902 | Late_endosome_membrane | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031929 | TOR_signaling_cascade | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031941 | Filamentous_actin | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031953 | Negative_regulation_of_protein_autophosphorylation | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031954 | Positive_regulation_of_protein_autophosphorylation | | | | | | G0: |
| _01 | 69 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031965 | Nuclear_membrane | | | | | | G0: |
| _01 | 23 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031966 | Mitochondrial_membrane | | | | | | G0: |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031982 | Vesicle | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0031988 | Membrane-bounded_vesicle | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032007 | Negative_regulation_of_TOR_signaling_cascade | | | | | | G0: |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |

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|---------|--|---|-------------|----------|---|----------|------------|
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032391 | Photoreceptor_connecting_cilium | | | | | | G0: |
| _01 | 68 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032403 | Protein_complex_binding | | | | | | G0: |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032420 | Stereocilium | | | | | | G0: |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032436 | Positive_regulation_of_proteasomal_ubiquitin-dependent_protein_catabolic_process | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032438 | Melanosome_organization | | | | | | G0: |
| _01 | 67 | 2 | 0.000601999 | 0.124557 | 0 | 0.000189 | G0:0032496 |
| 0032496 | Response_to_lipopolysaccharide | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032508 | DNA_duplex_unwinding | | | | | | G0: |
| _01 | 30 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032526 | Response_to_retinoic_acid | | | | | | G0: |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032570 | Response_to_progesterone_stimulus | | | | | | G0: |
| _01 | 44 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032580 | Golgi_cisterna_membrane | | | | | | G0: |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032582 | Negative_regulation_of_gene-specific_transcription | | | | | | G0: |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032583 | Regulation_of_gene-specific_transcription | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032585 | Multivesicular_body_membrane | | | | | | G0: |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032587 | Ruffle_membrane | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032689 | Negative_regulation_of_interferon-gamma_production | | | | | | G0: |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032715 | Negative_regulation_of_interleukin-6_production | | | | | | G0: |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032720 | Negative_regulation_of_tumor_necrosis_factor_production | | | | | | G0: |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032722 | Positive_regulation_of_chemokine_production | | | | | | G0: |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032728 | Positive_regulation_of_interferon-beta_production | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032729 | Positive_regulation_of_interferon-gamma_production | | | | | | G0: |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032735 | Positive_regulation_of_interleukin-12_production | | | | | | G0: |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032755 | Positive_regulation_of_interleukin-6_production | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032757 | Positive_regulation_of_interleukin-8_production | | | | | | G0: |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032760 | Positive_regulation_of_tumor_necrosis_factor_production | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032781 | Positive_regulation_of_ATPase_activity | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0032839 | Dendrite_cytoplasm | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |

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| 0032862 | Activation_of_Rho_GTPase_activity | | | | | | | |
| _01 | 36 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0032868 | Response_to_insulin_stimulus | | | | | | | |
| _01 | 31 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0032869 | Cellular_response_to_insulin_stimulus | | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0032870 | Cellular_response_to_hormone_stimulus | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0032874 | Positive_regulation_of_stress-activated_MAPK_cascade | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0032880 | Regulation_of_protein_localization | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0032925 | Regulation_of_activin_receptor_signaling_pathway | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0032947 | Protein_complex_scaffold | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0032956 | Regulation_of_actin_cytoskeleton_organization | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0032967 | Positive_regulation_of_collagen_biosynthetic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0032981 | Mitochondrial_respiratory_chain_complex_I_assembly | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0032982 | Myosin_filament | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0033017 | Sarcoplasmic_reticulum_membrane | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0033077 | T_cell_differentiation_in_thymus | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0033116 | ER-Golgi_intermediate_compartment_membrane | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0033137 | Negative_regulation_of_peptidyl-serine_phosphorylation | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0033138 | Positive_regulation_of_peptidyl-serine_phosphorylation | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0033151 | V(D)J_recombination | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0033162 | Melanosome_membrane | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0033169 | Histone_H3-K9_demethylation | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0033180 | Proton-transporting_V-type_ATPase,_V1_domain | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0033189 | Response_to_vitamin_A | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0033198 | Response_to_ATP | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0033209 | Tumor_necrosis_factor-mediated_signaling_pathway | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0033235 | Positive_regulation_of_protein_sumoylation | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0033276 | Transcription_factor_TFTC_complex | | | | | | | |
| _01 | 13 | 1 | 1 | 1 | 0 | 3.9e-05 | | GO: |
| 0033280 | Response_to_vitamin_D | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | | GO: |

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| 0033344 | Cholesterol_efflux | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0033391 | Chromatoid_body | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0033523 | Histone_H2B_ubiquitination | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0033540 | Fatty_acid_beta-oxidation_using_acyl-CoA_oxidase | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0033558 | Protein_deacetylase_activity | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0033574 | Response_to_testosterone_stimulus | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0033613 | Activating_transcription_factor_binding | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0033700 | Phospholipid_efflux | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0033993 | Response_to_lipid | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034045 | Pre-autophagosomal_structure_membrane | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034080 | CenH3-containing_nucleosome_assembly_at_centromere | | | | | | | |
| _01 | 37 | 2 | 0.000151 | 0.0549709 | 0 | 0.000189 | | |
| G0:0034097 | Response_to_cytokine_stimulus | | | | | | | |
| _01 | 41 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034138 | Toll-like_receptor_3_signaling_pathway | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034185 | Apolipoprotein_binding | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034199 | Activation_of_protein_kinase_A_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034237 | Protein_kinase_A_regulatory_subunit_binding | | | | | | | |
| _01 | 64 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034329 | Cell_junction_assembly | | | | | | | |
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034332 | Adherens_junction_organization | | | | | | | |
| _01 | 38 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034339 | Regulation_of_transcription_from_RNA_polymerase_II_promoter_by_nuclear_hormone_receptor | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034341 | Response_to_interferon-gamma | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034361 | Very-low-density_lipoprotein_particle | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034362 | Low-density_lipoprotein_particle | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034364 | High-density_lipoprotein_particle | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034374 | Low-density_lipoprotein_particle_remodeling | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034375 | High-density_lipoprotein_particle_remodeling | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0034394 | Protein_localization_at_cell_surface | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0034405 | Response_to_fluid_shear_stress | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034446 | Substrate_adhesion-dependent_cell_spreading | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034450 | Ubiquitin-ubiquitin_ligase_activity | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034453 | Microtubule_anchoring | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034464 | BBSome | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034501 | Protein_localization_to_kinetochore | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034504 | Protein_localization_to_nucleus | | | | | | | |
| _01 | 11 | 1 | 1 | 1 | 0 | 5.2e-05 | | GO: |
| 0034605 | Cellular_response_to_heat | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034612 | Response_to_tumor_necrosis_factor | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034613 | Cellular_protein_localization | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034614 | Cellular_response_to_reactive_oxygen_species | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034644 | Cellular_response_to_UV | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034660 | NcrRNA_metabolic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034704 | Calcium_channel_complex | | | | | | | |
| _01 | 38 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034707 | Chloride_channel_complex | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034713 | Type_I_transforming_growth_factor_beta_receptor_binding | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034976 | Response_to_endoplasmic_reticulum_stress | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0034993 | SUN-KASH_complex | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0035019 | Somatic_stem_cell_maintenance | | | | | | | |
| _01 | 45 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0035023 | Regulation_of_Rho_protein_signal_transduction | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0035024 | Negative_regulation_of_Rho_protein_signal_transduction | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0035025 | Positive_regulation_of_Rho_protein_signal_transduction | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0035035 | Histone_acetyltransferase_binding | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0035050 | Embryonic_heart_tube_development | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0035064 | Methylated_histone_residue_binding | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0035085 | Cilium_axoneme | | | | | | | |
| _01 | 37 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0035091 | Phosphoinositide_binding | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |

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| 0035094 | Response_to_nicotine | | | | | | | |
| _01 | 12 | 1 | 1 | 1 | 0 | 0.000423 | G0: | |
| 0035097 | Histone_methyltransferase_complex | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0035115 | Embryonic_forelimb_morphogenesis | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0035116 | Embryonic_hindlimb_morphogenesis | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0035121 | Tail_morphogenesis | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0035136 | Forelimb_morphogenesis | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0035162 | Embryonic_hemopoiesis | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0035176 | Social_behavior | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0035235 | Ionotropic_glutamate_receptor_signaling_pathway | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0035249 | Synaptic_transmission,_glutamatergic | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0035253 | Ciliary_rootlet | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0035264 | Multicellular_organism_growth | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0035265 | Organ_growth | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0035267 | NuA4_histone_acetyltransferase_complex | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0035313 | Wound_healing,_spreading_of_epidermal_cells | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0035329 | Hippo_signaling_cascade | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0035338 | Long-chain_fatty-acyl-CoA_biosynthetic_process | | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0040007 | Growth | | | | | | | |
| _01 | 38 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0040008 | Regulation_of_growth | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0040014 | Regulation_of_multicellular_organism_growth | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0040018 | Positive_regulation_of_multicellular_organism_growth | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0040037 | Negative_regulation_of_fibroblast_growth_factor_receptor_signaling_pathway | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042056 | Chemoattractant_activity | | | | | | | |
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042059 | Negative_regulation_of_epidermal_growth_factor_receptor_signaling_pathway | | | | | | | |
| _01 | 32 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042060 | Wound_healing | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |

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|---------|---|---|---|---|---|---------|-----|--|
| 0042074 | Cell_migration_involved_in_gastrulation | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042088 | T-helper_1_type_immune_response | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042098 | T_cell_proliferation | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042100 | B_cell_proliferation | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042101 | T_cell_receptor_complex | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042102 | Positive_regulation_of_T_cell_proliferation | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042104 | Positive_regulation_of_activated_T_cell_proliferation | | | | | | | |
| _01 | 15 | 1 | 1 | 1 | 0 | 7.4e-05 | G0: | |
| 0042110 | T_cell_activation | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042113 | B_cell_activation | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042116 | Macrophage_activation | | | | | | | |
| _01 | 53 | 1 | 1 | 1 | 0 | 8.3e-05 | G0: | |
| 0042127 | Regulation_of_cell_proliferation | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042130 | Negative_regulation_of_T_cell_proliferation | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042135 | Neurotransmitter_catabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042136 | Neurotransmitter_biosynthetic_process | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042147 | Retrograde_transport,_endosome_to_Golgi | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042153 | RPTP-like_protein_binding | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042157 | Lipoprotein_metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042162 | Telomeric_DNA_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042166 | Acetylcholine_binding | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042169 | SH2_domain_binding | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042176 | Regulation_of_protein_catabolic_process | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042177 | Negative_regulation_of_protein_catabolic_process | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042220 | Response_to_cocaine | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042221 | Response_to_chemical_stimulus | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042246 | Tissue_regeneration | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042254 | Ribosome_biogenesis | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042274 | Ribosomal_small_subunit_biogenesis | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: | |

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|---------|--|---|---|---|---|----------|--|-----|
| 0042277 | Peptide_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042288 | MHC_class_I_protein_binding | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042301 | Phosphate_binding | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042310 | Vasoconstriction | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042311 | Vasodilation | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042312 | Regulation_of_vasodilation | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042325 | Regulation_of_phosphorylation | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042326 | Negative_regulation_of_phosphorylation | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042327 | Positive_regulation_of_phosphorylation | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042346 | Positive_regulation_of_NF-kappaB_import_into_nucleus | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042355 | L-fucose_catabolic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042359 | Vitamin_D_metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042382 | Paraspeckles | | | | | | | |
| _01 | 40 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042383 | Sarcolemma | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042384 | Cilium_assembly | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042391 | Regulation_of_membrane_potential | | | | | | | |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042393 | Histone_binding | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042417 | Dopamine_metabolic_process | | | | | | | |
| _01 | 10 | 1 | 1 | 1 | 0 | 6.3e-05 | | GO: |
| 0042445 | Hormone_metabolic_process | | | | | | | |
| _01 | 37 | 1 | 1 | 1 | 0 | 3.9e-05 | | GO: |
| 0042446 | Hormone_biosynthetic_process | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042462 | Eye_photoreceptor_cell_development | | | | | | | |
| _01 | 63 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042470 | Melanosome | | | | | | | |
| _01 | 34 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042472 | Inner_ear_morphogenesis | | | | | | | |
| _01 | 12 | 1 | 1 | 1 | 0 | 0.000339 | | GO: |
| 0042474 | Middle_ear_morphogenesis | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042475 | Odontogenesis_of_dentine-containing_tooth | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042476 | Odontogenesis | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0042491 | Auditory_receptor_cell_differentiation | | | | | | | |
| _01 | 173 | 1 | 1 | 1 | 0 | 3.9e-05 | | GO: |

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| 0042493 | Response_to_drug | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042517 | Positive_regulation_of_tyrosine_phosphorylation_of_Stat3_protein | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042523 | Positive_regulation_of_tyrosine_phosphorylation_of_Stat5_protein | | | | | | | |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042542 | Response_to_hydrogen_peroxide | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042552 | Myelination | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042554 | Superoxide_anion_generation | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042562 | Hormone_binding | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042573 | Retinoic_acid_metabolic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042581 | Specific_granule | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042589 | Zymogen_granule_membrane | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042592 | Homeostatic_process | | | | | | | |
| _01 | 34 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: | |
| 0042593 | Glucose_homeostasis | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042594 | Response_to_starvation | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042605 | Peptide_antigen_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042612 | MHC_class_I_protein_complex | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042623 | ATPase_activity,_coupled | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042626 | ATPase_activity,_coupled_to_transmembrane_movement_of_substances | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042627 | Chylomicron | | | | | | | |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042632 | Cholesterol_homeostasis | | | | | | | |
| _01 | 6 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0042640 | Anagen | | | | | | | |
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042645 | Mitochondrial_nucleoid | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042692 | Muscle_cell_differentiation | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042698 | Ovulation_cycle | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042711 | Maternal_behavior | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042713 | Sperm_ejaculation | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0042730 | Fibrinolysis | | | | | | | |

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|---------|--|---|---|---|---|----------|-----|
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042733 | Embryonic_digit_morphogenesis | | | | | | G0: |
| _01 | 30 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042734 | Presynaptic_membrane | | | | | | G0: |
| _01 | 51 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042742 | Defense_response_to_bacterium | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042744 | Hydrogen_peroxide_catabolic_process | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042752 | Regulation_of_circadian_rhythm | | | | | | G0: |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042755 | Eating_behavior | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042756 | Drinking_behavior | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042769 | DNA_damage_response,_detection_of_DNA_damage | | | | | | G0: |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042771 | DNA_damage_response,_signal_transduction_by_p53_class_mediator_resulting_in_induction_of_apoptosis | | | | | | G0: |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042776 | Mitochondrial_ATP_synthesis_coupled_proton_transport | | | | | | G0: |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042787 | Protein_ubiquitination_involved_in_ubiquitin-dependent_protein_catabolic_process | | | | | | G0: |
| _01 | 8 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0042800 | Histone_methyltransferase_activity_(H3-K4_specific) | | | | | | G0: |
| _01 | 216 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0042802 | Identical_protein_binding | | | | | | G0: |
| _01 | 244 | 1 | 1 | 1 | 0 | 6.9e-05 | G0: |
| 0042803 | Protein_homodimerization_activity | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042809 | Vitamin_D_receptor_binding | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042813 | Wnt_receptor_activity | | | | | | G0: |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042826 | Histone_deacetylase_binding | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042832 | Defense_response_to_protozoan | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042921 | Glucocorticoid_receptor_signaling_pathway | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042923 | Neuropeptide_binding | | | | | | G0: |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042953 | Lipoprotein_transport | | | | | | G0: |
| _01 | 116 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042981 | Regulation_of_apoptosis | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042994 | Cytoplasmic_sequestering_of_transcription_factor | | | | | | G0: |
| _01 | 70 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0042995 | Cell_projection | | | | | | G0: |
| _01 | 43 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0043005 | Neuron_projection | | | | | | G0: |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: |

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| 0043010 | Camera-type_eye_development | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043011 | Myeloid_dendritic_cell_differentiation | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043015 | Gamma-tubulin_binding | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043020 | NADPH_oxidase_complex | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043021 | Ribonucleoprotein_binding | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043022 | Ribosome_binding | | | | | | | |
| _01 | 96 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043025 | Neuronal_cell_body | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043027 | Caspase_inhibitor_activity | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043029 | T_cell_homeostasis | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043034 | Costamere | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043043 | Peptide_biosynthetic_process | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043046 | DNA_methylation_involved_in_gamete_generation | | | | | | | |
| _01 | 90 | 1 | 1 | 1 | 0 | 3.9e-05 | | G0: |
| 0043065 | Positive_regulation_of_apoptosis | | | | | | | |
| _01 | 102 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043066 | Negative_regulation_of_apoptosis | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043069 | Negative_regulation_of_programmed_cell_death | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043085 | Positive_regulation_of_catalytic_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043087 | Regulation_of_GTPase_activity | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043101 | Purine-containing_compound_salvage | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043113 | Receptor_clustering | | | | | | | |
| _01 | 80 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043123 | Positive_regulation_of_I-kappaB_kinase/NF-kappaB_cascade | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043124 | Negative_regulation_of_I-kappaB_kinase/NF-kappaB_cascade | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043129 | Surfactant_homeostasis | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043130 | Ubiquitin_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043149 | Stress_fiber_assembly | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043154 | Negative_regulation_of_caspase_activity | | | | | | | |
| _01 | 30 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043161 | Proteasomal_ubiquitin-dependent_protein_catabolic_process | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | | G0: |
| 0043169 | Cation_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | G0: |

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| 0043186 | P_granule | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043190 | ATP-binding_cassette_(ABC)_transporter_complex | | | | | | | |
| _01 | 43 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043193 | Positive_regulation_of_gene-specific_transcription | | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043195 | Terminal_button | | | | | | | |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043197 | Dendritic_spine | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043198 | Dendritic_shaft | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043200 | Response_to_amino_acid_stimulus | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043202 | Lysosomal_lumen | | | | | | | |
| _01 | 22 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043204 | Perikaryon | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043206 | Fibril_organization | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043208 | Glycosphingolipid_binding | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043209 | Myelin_sheath | | | | | | | |
| _01 | 130 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043231 | Intracellular_membrane-bounded_organelle | | | | | | | |
| _01 | 112 | 2 | 0.00452 | 0.352829 | 0 | 0.000189 | G0: | |
| 0043234 | Protein_complex | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043235 | Receptor_complex | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043236 | Laminin_binding | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043252 | Sodium-independent_organic_anion_transport | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043277 | Apoptotic_cell_clearance | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043278 | Response_to_morphine | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043280 | Positive_regulation_of_caspase_activity | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043292 | Contractile_fiber | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043306 | Positive_regulation_of_mast_cell_degranulation | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043325 | Phosphatidylinositol-3,4-bisphosphate_binding | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043330 | Response_to_exogenous_dsRNA | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043388 | Positive_regulation_of_DNA_binding | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043392 | Negative_regulation_of_DNA_binding | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0043393 | Regulation_of_protein_binding | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0043395 | Heparan_sulfate_proteoglycan_binding | | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043403 | Skeletal_muscle_tissue_regeneration | | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043406 | Positive_regulation_of_MAP_kinase_activity | | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043407 | Negative_regulation_of_MAP_kinase_activity | | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043408 | Regulation_of_MAPKKK_cascade | | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043409 | Negative_regulation_of_MAPKKK_cascade | | | | | | | | |
| _01 | 31 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043410 | Positive_regulation_of_MAPKKK_cascade | | | | | | | | |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043433 | Negative_regulation_of_transcription_factor_activity | | | | | | | | |
| _01 | 40 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043434 | Response_to_peptide_hormone_stimulus | | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043473 | Pigmentation | | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043484 | Regulation_of_RNA_splicing | | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043488 | Regulation_of_mRNA_stability | | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043491 | Protein_kinase_B_signaling_cascade | | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043498 | Cell_surface_binding | | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043499 | Eukaryotic_cell_surface_binding | | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043507 | Positive_regulation_of_JUN_kinase_activity | | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043508 | Negative_regulation_of_JUN_kinase_activity | | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043518 | Negative_regulation_of_DNA_damage_response,_signal_transduction_by_p53_class_mediator | | | | | | | | |
| _01 | 38 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043524 | Negative_regulation_of_neuron_apoptosis | | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043525 | Positive_regulation_of_neuron_apoptosis | | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043526 | Neuroprotection | | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043531 | ADP_binding | | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043534 | Blood_vessel_endothelial_cell_migration | | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043536 | Positive_regulation_of_blood_vessel_endothelial_cell_migration | | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | | GO: |
| 0043537 | Negative_regulation_of_blood_vessel_endothelial_cell_migration | | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | | GO: |

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| 0043542 | Endothelial_cell_migration | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043548 | Phosphoinositide_3-kinase_binding | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043560 | Insulin_receptor_substrate_binding | | | | | | | |
| _01 | 321 | 3 | 0.001001 | 0.168941 | 0 | 0.000160667 | 0 | |
| G0:0043565 | Sequence-specific_DNA_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043568 | Positive_regulation_of_insulin-like_growth_factor_receptor_signaling_pathway | | | | | | | |
| _01 | 5 | 1 | 1 | 1 | 0 | 0.000339 | 0 | GO: |
| 0043583 | Ear_development | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043586 | Tongue_development | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043587 | Tongue_morphogenesis | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043588 | Skin_development | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043616 | Keratinocyte_proliferation | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043621 | Protein_self-association | | | | | | | |
| _01 | 36 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043627 | Response_to_estrogen_stimulus | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043679 | Axon_terminus | | | | | | | |
| _01 | 74 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043687 | Post-translational_protein_modification | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043691 | Reverse_cholesterol_transport | | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043928 | Exonucleolytic_nuclear-transcribed_mRNA_catabolic_process_involved_in_deadenylation-dependent_decay | | | | | | | |
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043966 | Histone_H3_acetylation | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043967 | Histone_H4_acetylation | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043968 | Histone_H2A_acetylation | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043983 | Histone_H4-K12_acetylation | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0043984 | Histone_H4-K16_acetylation | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0044130 | Negative_regulation_of_growth_of_symbiont_in_host | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0044237 | Cellular_metabolic_process | | | | | | | |
| _01 | 76 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0044255 | Cellular_lipid_metabolic_process | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0044262 | Cellular_carbohydrate_metabolic_process | | | | | | | |
| _01 | 151 | 0 | 1 | 1 | 0 | 0 | 0 | GO: |
| 0044267 | Cellular_protein_metabolic_process | | | | | | | |

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| _01 | 180 | 1 | 1 | 1 | 0 | 7.4e-05 | G0: |
| 0044419 | Interspecies_interaction_between_organisms | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0044424 | Intracellular_part | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0044428 | Nuclear_part | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0044444 | Cytoplasmic_part | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045022 | Early_endosome_to_late_endosome_transport | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045028 | Purinergic_nucleotide_receptor_activity,_G-protein_coupled | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045055 | Regulated_secretory_pathway | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045059 | Positive_thymic_T_cell_selection | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045060 | Negative_thymic_T_cell_selection | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045078 | Positive_regulation_of_interferon-gamma_biosynthetic_process | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045084 | Positive_regulation_of_interleukin-12_biosynthetic_process | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045086 | Positive_regulation_of_interleukin-2_biosynthetic_process | | | | | | |
| _01 | 125 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045087 | Innate_immune_response | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045089 | Positive_regulation_of_innate_immune_response | | | | | | |
| _01 | 31 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045095 | Keratin_filament | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045109 | Intermediate_filament_organization | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045111 | Intermediate_filament_cytoskeleton | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045116 | Protein_neddylation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045120 | Pronucleus | | | | | | |
| _01 | 74 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045121 | Membrane_raft | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045165 | Cell_fate_commitment | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045176 | Apical_protein_localization | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045177 | Apical_part_of_cell | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045182 | Translation_regulator_activity | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045184 | Establishment_of_protein_localization | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045190 | Isotype_switching | | | | | | |
| _01 | 180 | 2 | 0.037092 | 0.676482 | 0 | 4.55e-05 | G0: |
| 0045202 | Synapse | | | | | | |

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| _01 | 110 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045211 | Postsynaptic_membrane | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045214 | Sarcomere_organization | | | | | | |
| _01 | 38 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045216 | Cell-cell_junction_organization | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045294 | Alpha-catenin_binding | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045295 | Gamma-catenin_binding | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045296 | Cadherin_binding | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045333 | Cellular_respiration | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045348 | Positive_regulation_of_MHC_class_II_biosynthetic_process | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045410 | Positive_regulation_of_interleukin-6_biosynthetic_process | | | | | | |
| _01 | 15 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: |
| 0045429 | Positive_regulation_of_nitric_oxide_biosynthetic_process | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045444 | Fat_cell_differentiation | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045445 | Myoblast_differentiation | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045446 | Endothelial_cell_differentiation | | | | | | |
| _01 | 585 | 2 | 0.0647219 | | 0.738657 | 0 | |
| 0.0003835 | G0:0045449 Regulation_of_transcription | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045453 | Bone_resorption | | | | | | |
| _01 | 47 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045454 | Cell_redox_homeostasis | | | | | | |
| _01 | 42 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045471 | Response_to_ethanol | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045494 | Photoreceptor_cell_maintenance | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045499 | Chemorepellent_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045588 | Positive_regulation_of_gamma-delta_T_cell_differentiation | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045595 | Regulation_of_cell_differentiation | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045596 | Negative_regulation_of_cell_differentiation | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045597 | Positive_regulation_of_cell_differentiation | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045599 | Negative_regulation_of_fat_cell_differentiation | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045600 | Positive_regulation_of_fat_cell_differentiation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045647 | Negative_regulation_of_erythrocyte_differentiation | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045648 | Positive_regulation_of_erythrocyte_differentiation | | | | | | |

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| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045651 | Positive_regulation_of_macrophage_differentiation | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045662 | Negative_regulation_of_myoblast_differentiation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045663 | Positive_regulation_of_myoblast_differentiation | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045664 | Regulation_of_neuron_differentiation | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045665 | Negative_regulation_of_neuron_differentiation | | | | | | |
| _01 | 22 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: |
| 0045666 | Positive_regulation_of_neuron_differentiation | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045667 | Regulation_of_osteoblast_differentiation | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045668 | Negative_regulation_of_osteoblast_differentiation | | | | | | |
| _01 | 21 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045669 | Positive_regulation_of_osteoblast_differentiation | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045671 | Negative_regulation_of_osteoclast_differentiation | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045672 | Positive_regulation_of_osteoclast_differentiation | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045723 | Positive_regulation_of_fatty_acid_biosynthetic_process | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045725 | Positive_regulation_of_glycogen_biosynthetic_process | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045727 | Positive_regulation_of_translation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045730 | Respiratory_burst | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045732 | Positive_regulation_of_protein_catabolic_process | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045736 | Negative_regulation_of_cyclin-dependent_protein_kinase_activity | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045739 | Positive_regulation_of_DNA_repair | | | | | | |
| _01 | 25 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045740 | Positive_regulation_of_DNA_replication | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045745 | Positive_regulation_of_G-protein_coupled_receptor_protein_signaling_pathway | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045746 | Negative_regulation_of_Notch_signaling_pathway | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045747 | Positive_regulation_of_Notch_signaling_pathway | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045749 | Negative_regulation_of_S_phase_of_mitotic_cell_cycle | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045765 | Regulation_of_angiogenesis | | | | | | |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045766 | Positive_regulation_of_angiogenesis | | | | | | |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045768 | Positive_regulation_of_anti-apoptosis | | | | | | |

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| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045773 | Positive_regulation_of_axon_extension | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045776 | Negative_regulation_of_blood_pressure | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045777 | Positive_regulation_of_blood_pressure | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045778 | Positive_regulation_of_ossification | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045779 | Negative_regulation_of_bone_resorption | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045785 | Positive_regulation_of_cell_adhesion | | | | | | |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045786 | Negative_regulation_of_cell_cycle | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045787 | Positive_regulation_of_cell_cycle | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045792 | Negative_regulation_of_cell_size | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045807 | Positive_regulation_of_endocytosis | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045821 | Positive_regulation_of_glycolysis | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045822 | Negative_regulation_of_heart_contraction | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045840 | Positive_regulation_of_mitosis | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045859 | Regulation_of_protein_kinase_activity | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045860 | Positive_regulation_of_protein_kinase_activity | | | | | | |
| _01 | 6 | 1 | 1 | 1 | 0 | 0.000339 | G0: |
| 0045861 | Negative_regulation_of_proteolysis | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045862 | Positive_regulation_of_proteolysis | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045879 | Negative_regulation_of_smoothened_signaling_pathway | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045880 | Positive_regulation_of_smoothened_signaling_pathway | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045885 | Positive_regulation_of_survival_gene_product_expression | | | | | | |
| _01 | 61 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045892 | Negative_regulation_of_transcription,_DNA-dependent | | | | | | |
| _01 | 89 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045893 | Positive_regulation_of_transcription,_DNA-dependent | | | | | | |
| _01 | 11 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: |
| 0045907 | Positive_regulation_of_vasoconstriction | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045909 | Positive_regulation_of_vasodilation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045921 | Positive_regulation_of_exocytosis | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045930 | Negative_regulation_of_mitotic_cell_cycle | | | | | | |
| _01 | 12 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: |
| 0045931 | Positive_regulation_of_mitotic_cell_cycle | | | | | | |

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| _01 | 106 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045941 | Positive_regulation_of_transcription | | | | | | |
| _01 | 228 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: |
| 0045944 | Positive_regulation_of_transcription_from_RNA_polymerase_II_promoter | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045947 | Negative_regulation_of_translational_initiation | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045954 | Positive_regulation_of_natural_killer_cell_mediated_cytotoxicity | | | | | | |
| _01 | 11 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: |
| 0045987 | Positive_regulation_of_smooth_muscle_contraction | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0045995 | Regulation_of_embryonic_development | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046034 | ATP_metabolic_process | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046135 | Pyrimidine_nucleoside_catabolic_process | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046209 | Nitric_oxide_metabolic_process | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046320 | Regulation_of_fatty_acid_oxidation | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046326 | Positive_regulation_of_glucose_import | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046328 | Regulation_of_JNK_cascade | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046329 | Negative_regulation_of_JNK_cascade | | | | | | |
| _01 | 19 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0046330 | Positive_regulation_of_JNK_cascade | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046332 | SMAD_binding | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046415 | Urate_metabolic_process | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046427 | Positive_regulation_of_JAK-STAT_cascade | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046470 | Phosphatidylcholine_metabolic_process | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046488 | Phosphatidylinositol_metabolic_process | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046498 | S-adenosylhomocysteine_metabolic_process | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046513 | Ceramide_biosynthetic_process | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046579 | Positive_regulation_of_Ras_protein_signal_transduction | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046580 | Negative_regulation_of_Ras_protein_signal_transduction | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046620 | Regulation_of_organ_growth | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046627 | Negative_regulation_of_insulin_receptor_signaling_pathway | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046638 | Positive_regulation_of_alpha-beta_T_cell_differentiation | | | | | | |

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| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046641 | Positive_regulation_of_alpha-beta_T_cell_proliferation | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046655 | Folic_acid_metabolic_process | | | | | | G0: |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046658 | Anchored_to_plasma_membrane | | | | | | G0: |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046676 | Negative_regulation_of_insulin_secretion | | | | | | G0: |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046677 | Response_to_antibiotic | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046685 | Response_to_arsenic | | | | | | G0: |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046686 | Response_to_cadmium_ion | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046688 | Response_to_copper_ion | | | | | | G0: |
| _01 | 8 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: |
| 0046697 | Decidualization | | | | | | G0: |
| _01 | 8 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0046716 | Muscle_cell_homeostasis | | | | | | G0: |
| _01 | 52 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046777 | Protein_autophosphorylation | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046784 | Intronless_viral_mRNA_export_from_host_nucleus | | | | | | G0: |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046847 | Filopodium_assembly | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046854 | Phosphoinositide_phosphorylation | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046873 | Metal_ion_transmembrane_transporter_activity | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046875 | Ephrin_receptor_binding | | | | | | G0: |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046887 | Positive_regulation_of_hormone_secretion | | | | | | G0: |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046888 | Negative_regulation_of_hormone_secretion | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046902 | Regulation_of_mitochondrial_membrane_permeability | | | | | | G0: |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046907 | Intracellular_transport | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046914 | Transition_metal_ion_binding | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046928 | Regulation_of_neurotransmitter_secretion | | | | | | G0: |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046930 | Pore_complex | | | | | | G0: |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046933 | Hydrogen_ion_transporting_ATP_synthase_activity,_rotational_mechanism | | | | | | G0: |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046961 | Proton-transporting_ATPase_activity,_rotational_mechanism | | | | | | G0: |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046965 | Retinoid_X_receptor_binding | | | | | | G0: |

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| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046966 | Thyroid_hormone_receptor_binding | | | | | | |
| _01 | 148 | 1 | 1 | 1 | 0 | 6.9e-05 | G0: |
| 0046982 | Protein_heterodimerization_activity | | | | | | |
| _01 | 56 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0046983 | Protein_dimerization_activity | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0047372 | Acylglycerol_lipase_activity | | | | | | |
| _01 | 48 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0047485 | Protein_N-terminus_binding | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0047496 | Vesicle_transport_along_microtubule | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0047498 | Calcium-dependent_phospholipase_A2_activity | | | | | | |
| _01 | 4 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0047760 | Butyrate-CoA_ligase_activity | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048008 | Platelet-derived_growth_factor_receptor_signaling_pathway | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048009 | Insulin-like_growth_factor_receptor_signaling_pathway | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048010 | Vascular_endothelial_growth_factor_receptor_signaling_pathway | | | | | | |
| _01 | 146 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048011 | Nerve_growth_factor_receptor_signaling_pathway | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048013 | Ephrin_receptor_signaling_pathway | | | | | | |
| _01 | 45 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048015 | Phosphoinositide-mediated_signaling | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048037 | Cofactor_binding | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048038 | Quinone_binding | | | | | | |
| _01 | 11 | 1 | 1 | 1 | 0 | 5e-05 | G0: |
| 0048041 | Focal_adhesion_assembly | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048066 | Developmental_pigmentation | | | | | | |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048146 | Positive_regulation_of_fibroblast_proliferation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048147 | Negative_regulation_of_fibroblast_proliferation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048148 | Behavioral_response_to_cocaine | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048167 | Regulation_of_synaptic_plasticity | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048168 | Regulation_of_neuronal_synaptic_plasticity | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048169 | Regulation_of_long-term_neuronal_synaptic_plasticity | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0048185 | Activin_binding | | | | | | |
| _01 | 6 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0048188 | Set1C/COMPASS_complex | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |

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| 0048193 | Golgi_vesicle_transport | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048205 | COPI_coating_of_Golgi_vesicle | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048208 | COPII_vesicle_coating | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048246 | Macrophage_chemotaxis | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048247 | Lymphocyte_chemotaxis | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048255 | MRNA_stabilization | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048260 | Positive_regulation_of_receptor-mediated_endocytosis | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048265 | Response_to_pain | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048268 | Clathrin_coat_assembly | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048286 | Lung_alveolus_development | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048304 | Positive_regulation_of_isotype_switching_to_IgG_isotypes | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048306 | Calcium-dependent_protein_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048339 | Paraxial_mesoderm_development | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048365 | Rac_GTPase_binding | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048384 | Retinoic_acid_receptor_signaling_pathway | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048407 | Platelet-derived_growth_factor_binding | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048468 | Cell_development | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048469 | Cell_maturation | | | | | | | |
| _01 | 236 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048471 | Perinuclear_region_of_cytoplasm | | | | | | | |
| _01 | 9 | 1 | 1 | 1 | 0 | 6.9e-05 | | GO: |
| 0048477 | Oogenesis | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048484 | Enteric_nervous_system_development | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048485 | Sympathetic_nervous_system_development | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048487 | Beta-tubulin_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048489 | Synaptic_vesicle_transport | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048511 | Rhythmic_process | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048513 | Organ_development | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0048514 | Blood_vessel_morphogenesis | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |

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| 0048536 | Spleen_development | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048538 | Thymus_development | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048541 | Peyer's_patch_development | | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048545 | Response_to_steroid_hormone_stimulus | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048565 | Digestive_tract_development | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048566 | Embryonic_digestive_tract_development | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048568 | Embryonic_organ_development | | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048589 | Developmental_growth | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048593 | Camera-type_eye_morphogenesis | | | | | | | |
| _01 | 7 | 1 | 1 | 1 | 0 | 6.9e-05 | G0: | |
| 0048599 | Oocyte_development | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048617 | Embryonic_foregut_morphogenesis | | | | | | | |
| _01 | 5 | 1 | 1 | 1 | 0 | 0.000339 | G0: | |
| 0048644 | Muscle_organ_morphogenesis | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048646 | Anatomical_structure_formation_involved_in_morphogenesis | | | | | | | |
| _01 | 20 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: | |
| 0048661 | Positive_regulation_of_smooth_muscle_cell_proliferation | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048662 | Negative_regulation_of_smooth_muscle_cell_proliferation | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048663 | Neuron_fate_commitment | | | | | | | |
| _01 | 7 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: | |
| 0048665 | Neuron_fate_specification | | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048666 | Neuron_development | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048678 | Response_to_axon_injury | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048699 | Generation_of_neurons | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048701 | Embryonic_cranial_skeleton_morphogenesis | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048703 | Embryonic_viscerocranium_morphogenesis | | | | | | | |
| _01 | 31 | 1 | 1 | 1 | 0 | 0.000339 | G0: | |
| 0048704 | Embryonic_skeletal_system_morphogenesis | | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048705 | Skeletal_system_morphogenesis | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048706 | Embryonic_skeletal_system_development | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048709 | Oligodendrocyte_differentiation | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0048738 | Cardiac_muscle_tissue_development | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050718 | Positive_regulation_of_interleukin-1_beta_secretion | | | | | | |
| _01 | 8 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: |
| 0050727 | Regulation_of_inflammatory_response | | | | | | |
| _01 | 17 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050728 | Negative_regulation_of_inflammatory_response | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050729 | Positive_regulation_of_inflammatory_response | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050730 | Regulation_of_peptidyl-tyrosine_phosphorylation | | | | | | |
| _01 | 34 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050731 | Positive_regulation_of_peptidyl-tyrosine_phosphorylation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050732 | Negative_regulation_of_peptidyl-tyrosine_phosphorylation | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050750 | Low-density_lipoprotein_receptor_binding | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050766 | Positive_regulation_of_phagocytosis | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050768 | Negative_regulation_of_neurogenesis | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050769 | Positive_regulation_of_neurogenesis | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050770 | Regulation_of_axonogenesis | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050771 | Negative_regulation_of_axonogenesis | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050772 | Positive_regulation_of_axonogenesis | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050775 | Positive_regulation_of_dendrite_morphogenesis | | | | | | |
| _01 | 41 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050776 | Regulation_of_immune_response | | | | | | |
| _01 | 52 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050796 | Regulation_of_insulin_secretion | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050804 | Regulation_of_synaptic_transmission | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050806 | Positive_regulation_of_synaptic_transmission | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050808 | Synapse_organization | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050810 | Regulation_of_steroid_biosynthetic_process | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050811 | GABA_receptor_binding | | | | | | |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050821 | Protein_stabilization | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050829 | Defense_response_to_Gram-negative_bacterium | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050830 | Defense_response_to_Gram-positive_bacterium | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050832 | Defense_response_to_fungus | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050839 | Cell_adhesion_molecule_binding | | | | | | |

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| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050840 | Extracellular_matrix_binding | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050850 | Positive_regulation_of_calcium-mediated_signaling | | | | | | |
| _01 | 49 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050852 | T_cell_receptor_signaling_pathway | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050853 | B_cell_receptor_signaling_pathway | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050860 | Negative_regulation_of_T_cell_receptor_signaling_pathway | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050870 | Positive_regulation_of_T_cell_activation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050872 | White_fat_cell_differentiation | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050873 | Brown_fat_cell_differentiation | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050877 | Neurological_system_process | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050880 | Regulation_of_blood_vessel_size | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050885 | Neuromuscular_process_controlling_balance | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050890 | Cognition | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050892 | Intestinal_absorption | | | | | | |
| _01 | 406 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050896 | Response_to_stimulus | | | | | | |
| _01 | 61 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050900 | Leukocyte_migration | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050901 | Leukocyte_tethering_or_rolling | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050909 | Sensory_perception_of_taste | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050910 | Detection_of_mechanical_stimulus_involved_in_sensory_perception_of_sound | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050918 | Positive_chemotaxis | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050919 | Negative_chemotaxis | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050927 | Positive_regulation_of_positive_chemotaxis | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050930 | Induction_of_positive_chemotaxis | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050953 | Sensory_perception_of_light_stimulus | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050957 | Equilibrioception | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050995 | Negative_regulation_of_lipid_catabolic_process | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0050999 | Regulation_of_nitric-oxide_synthase_activity | | | | | | |

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| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051000 | Positive_regulation_of_nitric-oxide_synthase_activity | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051006 | Positive_regulation_of_lipoprotein_lipase_activity | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051010 | Microtubule_plus-end_binding | | | | | | |
| _01 | 33 | 1 | 1 | 1 | 0 | 6.9e-05 | G0: |
| 0051015 | Actin_filament_binding | | | | | | |
| _01 | 10 | 1 | 1 | 1 | 0 | 6.9e-05 | G0: |
| 0051017 | Actin_filament_bundle_assembly | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051018 | Protein_kinase_A_binding | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051019 | Mitogen-activated_protein_kinase_binding | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051020 | GTPase_binding | | | | | | |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051028 | MRNA_transport | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051044 | Positive_regulation_of_membrane_protein_ectodomain_proteolysis | | | | | | |
| _01 | 106 | 2 | 0.00927499 | 0.466609 | 0 | 0.000236 | G0: |
| 0051056 | Regulation_of_small_GTPase_mediated_signal_transduction | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051059 | NF-kappaB_binding | | | | | | |
| _01 | 72 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051082 | Unfolded_protein_binding | | | | | | |
| _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051084 | 'de_novo'_posttranslational_protein_folding | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051085 | Chaperone_mediated_protein_folding_requiring_cofactor | | | | | | |
| _01 | 18 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051087 | Chaperone_binding | | | | | | |
| _01 | 40 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: |
| 0051090 | Regulation_of_transcription_factor_activity | | | | | | |
| _01 | 28 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: |
| 0051091 | Positive_regulation_of_transcription_factor_activity | | | | | | |
| _01 | 41 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051092 | Positive_regulation_of_NF-kappaB_transcription_factor_activity | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051117 | ATPase_binding | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051145 | Smooth_muscle_cell_differentiation | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051209 | Release_of_sequestered_calcium_ion_into_cytosol | | | | | | |
| _01 | 28 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051216 | Cartilage_development | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051219 | Phosphoprotein_binding | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051225 | Spindle_assembly | | | | | | |
| _01 | 27 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051246 | Regulation_of_protein_metabolic_process | | | | | | |

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| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051258 | Protein_polymerization | | | | | | |
| _01 | 20 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051259 | Protein_oligomerization | | | | | | |
| _01 | 47 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051260 | Protein_homooligomerization | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051262 | Protein_tetramerization | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051272 | Positive_regulation_of_cellular_component_movement | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051276 | Chromosome_organization | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051281 | Positive_regulation_of_release_of_sequestered_calcium_ion_into_cytosol | | | | | | |
| _01 | 23 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051287 | NAD_or_NADH_binding | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051289 | Protein_homotetramerization | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051290 | Protein_heterotetramerization | | | | | | |
| _01 | 33 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051291 | Protein_heterooligomerization | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051297 | Centrosome_organization | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051298 | Centrosome_duplication | | | | | | |
| _01 | 145 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0051301 | Cell_division | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051378 | Serotonin_binding | | | | | | |
| _01 | 47 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: |
| 0051384 | Response_to_glucocorticoid_stimulus | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051402 | Neuron_apoptosis | | | | | | |
| _01 | 34 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051403 | Stress-activated_MAPK_cascade | | | | | | |
| _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051412 | Response_to_corticosterone_stimulus | | | | | | |
| _01 | 46 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0051436 | Negative_regulation_of_ubiquitin-protein_ligase_activity_involved_in_mitotic_cell_cycle | | | | | | |
| _01 | 51 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0051437 | Positive_regulation_of_ubiquitin-protein_ligase_activity_involved_in_mitotic_cell_cycle | | | | | | |
| _01 | 52 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0051439 | Regulation_of_ubiquitin-protein_ligase_activity_involved_in_mitotic_cell_cycle | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051457 | Maintenance_of_protein_location_in_nucleus | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051480 | Cytosolic_calcium_ion_homeostasis | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |

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| 0051482 | Elevation_of_cytosolic_calcium_ion_concentration_involved_in_G-protein_signaling_coupled_to_IP3_second_messenger | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051491 | Positive_regulation_of_filopodium_assembly | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051496 | Positive_regulation_of_stress_fiber_assembly | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051536 | Iron-sulfur_cluster_binding | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051537 | 2_iron,_2_sulfur_cluster_binding | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051539 | 4_iron,_4_sulfur_cluster_binding | | | | | | |
| _01 | 8 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0051568 | Histone_H3-K4_methylation | | | | | | |
| _01 | 26 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051591 | Response_to_cAMP | | | | | | |
| _01 | 34 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051592 | Response_to_calcium_ion | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051602 | Response_to_electrical_stimulus | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051603 | Proteolysis_involved_in_cellular_protein_catabolic_process | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051605 | Protein_maturation_by_peptide_bond_cleavage | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051607 | Defense_response_to_virus | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051635 | Bacterial_cell_surface_binding | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051642 | Centrosome_localization | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051693 | Actin_filament_capping | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051721 | Protein_phosphatase_2A_binding | | | | | | |
| _01 | 36 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: |
| 0051726 | Regulation_of_cell_cycle | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051739 | Ammonia_transmembrane_transporter_activity | | | | | | |
| _01 | 30 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051781 | Positive_regulation_of_cell_division | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051787 | Misfolded_protein_binding | | | | | | |
| _01 | 30 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051789 | Response_to_protein_stimulus | | | | | | |
| _01 | 5 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0051864 | Histone_demethylase_activity_(H3-K36_specific) | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051865 | Protein_autoubiquitination | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051879 | Hsp90_protein_binding | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051881 | Regulation_of_mitochondrial_membrane_potential | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | G0: |

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| 0051897 | Positive_regulation_of_protein_kinase_B_signaling_cascade | _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051898 | Negative_regulation_of_protein_kinase_B_signaling_cascade | _01 | 15 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051899 | Membrane_depolarization | _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051918 | Negative_regulation_of_fibrinolysis | _01 | 11 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0051924 | Regulation_of_calcium_ion_transport | _01 | 9 | 1 | 1 | 1 | 0 | 0.000423 | G0: |
| 0051928 | Positive_regulation_of_calcium_ion_transport | _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051930 | Regulation_of_sensory_perception_of_pain | _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051965 | Positive_regulation_of_synaptogenesis | _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0051967 | Negative_regulation_of_synaptic_transmission,_glutamatergic | _01 | 7 | 1 | 1 | 1 | 0 | 3.9e-05 | G0: |
| 0051968 | Positive_regulation_of_synaptic_transmission,_glutamatergic | _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0055007 | Cardiac_muscle_cell_differentiation | _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0055008 | Cardiac_muscle_tissue_morphogenesis | _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0055009 | Atrial_cardiac_muscle_tissue_morphogenesis | _01 | 19 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0055010 | Ventricular_cardiac_muscle_tissue_morphogenesis | _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0055015 | Ventricular_cardiac_muscle_cell_development | _01 | 12 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0055037 | Recycling_endosome | _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0055038 | Recycling_endosome_membrane | _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0055056 | D-glucose_transmembrane_transporter_activity | _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0055074 | Calcium_ion_homeostasis | _01 | 404 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0055085 | Transmembrane_transport | _01 | 56 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0055086 | Nucleobase,_nucleoside_and_nucleotide_metabolic_process | _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0055088 | Lipid_homeostasis | _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0055093 | Response_to_hyperoxia | _01 | 321 | 2 | 0.01498 | 0.529507 | 0 | 0.000231 | G0: |
| 0055114 | Oxidation-reduction_process | _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0055117 | Regulation_of_cardiac_muscle_contraction | _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060017 | Parathyroid_gland_development | _01 | 30 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060021 | Palate_development | _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |

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| 0060037 | Pharyngeal_system_development | _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060039 | Pericardium_development | _01 | 14 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060041 | Retina_development_in_camera-type_eye | _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060045 | Positive_regulation_of_cardiac_muscle_cell_proliferation | _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060048 | Cardiac_muscle_contraction | _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060055 | Angiogenesis_involved_in_wound_healing | _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060056 | Mammary_gland_involution | _01 | 29 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060070 | Canonical_Wnt_receptor_signaling_pathway | _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060071 | Wnt_receptor_signaling_pathway,_planar_cell_polarity_pathway | _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060079 | Regulation_of_excitatory_postsynaptic_membrane_potential | _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060134 | Prepulse_inhibition | _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060135 | Maternal_process_involved_in_female_pregnancy | _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060155 | Platelet_dense_granule_organization | _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060170 | Cilium_membrane | _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060173 | Limb_development | _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060174 | Limb_bud_formation | _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060271 | Cilium_morphogenesis | _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060325 | Face_morphogenesis | _01 | 8 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060326 | Cell_chemotaxis | _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060347 | Heart_trabecula_formation | _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060349 | Bone_morphogenesis | _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060389 | Pathway-restricted_SMAD_protein_phosphorylation | _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060391 | Positive_regulation_of_SMAD_protein_import_into_nucleus | _01 | 13 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060395 | SMAD_protein_signal_transduction | _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060406 | Positive_regulation_of_penile_erection | _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060412 | Ventricular_septum_morphogenesis | _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: |
| 0060425 | Lung_morphogenesis | _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: |

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| 0060426 | Lung_vasculature_development | | | | | | | |
| _01 | 6 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: | |
| 0060441 | Epithelial_tube_branching_involved_in_lung_morphogenesis | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0060445 | Branching_involved_in_salivary_gland_morphogenesis | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0060484 | Lung-associated_mesenchyme_development | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0060527 | Prostate_epithelial_cord_arborization_involved_in_prostate_glandular_acinus_morphogenesis | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0060548 | Negative_regulation_of_cell_death | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0060612 | Adipose_tissue_development | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0060644 | Mammary_gland_epithelial_cell_differentiation | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0060666 | Dichotomous_subdivision_of_terminal_units_involved_in_salivary_gland_branching | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0060670 | Branching_involved_in_embryonic_placenta_morphogenesis | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0060687 | Regulation_of_branching_involved_in_prostate_gland_morphogenesis | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0060707 | Trophoblast_giant_cell_differentiation | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0060716 | Labyrinthine_layer_blood_vessel_development | | | | | | | |
| _01 | 7 | 1 | 1 | 1 | 0 | 6.3e-05 | G0: | |
| 0060740 | Prostate_gland_epithelium_morphogenesis | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0060749 | Mammary_gland_alveolus_development | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0060828 | Regulation_of_canonical_Wnt_receptor_signaling_pathway | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0061036 | Positive_regulation_of_cartilage_development | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0061202 | Clathrin_sculpted_gamma-aminobutyric_acid_transport_vesicle_membrane | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0070016 | Armadillo_repeat_domain_binding | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0070064 | Proline-rich_region_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0070198 | Protein_localization_to_chromosome,_telomeric_region | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0070207 | Protein_homotrimerization | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0070301 | Cellular_response_to_hydrogen_peroxide | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | G0: | |
| 0070328 | Triglyceride_homeostasis | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | G0: | |

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| 0070330 | Aromatase_activity | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070371 | ERK1_and_ERK2_cascade | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070373 | Negative_regulation_of_ERK1_and_ERK2_cascade | | | | | | | |
| _01 | 29 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070374 | Positive_regulation_of_ERK1_and_ERK2_cascade | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070403 | NAD_binding | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070411 | I-SMAD_binding | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070412 | R-SMAD_binding | | | | | | | |
| _01 | 24 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070469 | Respiratory_chain | | | | | | | |
| _01 | 10 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070491 | Repressing_transcription_factor_binding | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070534 | Protein_K63-linked_ubiquitination | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070536 | Protein_K63-linked_deubiquitination | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070542 | Response_to_fatty_acid | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070555 | Response_to_interleukin-1 | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070652 | HAUS_complex | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070688 | MLL5-L_complex | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070695 | FHF_complex | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070742 | C2H2_zinc_finger_domain_binding | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070761 | Pre-snoRNP_complex | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070776 | MOZ/MORF_histone_acetyltransferase_complex | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070830 | Tight_junction_assembly | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070848 | Response_to_growth_factor_stimulus | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070888 | E-box_binding | | | | | | | |
| _01 | 5 | 1 | 1 | 1 | 0 | 5.2e-05 | | GO: |
| 0070934 | CRD-mediated_mRNA_stabilization | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0070936 | Protein_K48-linked_ubiquitination | | | | | | | |
| _01 | 5 | 1 | 1 | 1 | 0 | 5.2e-05 | | GO: |
| 0070937 | CRD-mediated_mRNA_stability_complex | | | | | | | |
| _01 | 15 | 1 | 1 | 1 | 0 | 0.000423 | | GO: |
| 0070979 | Protein_K11-linked_ubiquitination | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0071044 | Histone_mRNA_catabolic_process | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |

| | | | | | | | | |
|---------|---|---|---|---|---|---|--|-----|
| 0071108 | Protein_K48-linked_deubiquitination | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0071157 | Negative_regulation_of_cell_cycle_arrest | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0071203 | WASH_complex | | | | | | | |
| _01 | 12 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0071222 | Cellular_response_to_lipopolysaccharide | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0071230 | Cellular_response_to_amino_acid_stimulus | | | | | | | |
| _01 | 13 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0071300 | Cellular_response_to_retinoic_acid | | | | | | | |
| _01 | 15 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0071339 | MLL1_complex | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0071347 | Cellular_response_to_interleukin-1 | | | | | | | |
| _01 | 11 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0071363 | Cellular_response_to_growth_factor_stimulus | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0071407 | Cellular_response_to_organic_cyclic_substance | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0071445 | Cellular_response_to_protein_stimulus | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0071456 | Cellular_response_to_hypoxia | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0071560 | Cellular_response_to_transforming_growth_factor_beta_stimulus | | | | | | | |
| _01 | 8 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0071564 | NpBAF_complex | | | | | | | |
| _01 | 9 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0071565 | NBAF_complex | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0072357 | PTW/PP1_phosphatase_complex | | | | | | | |
| _01 | 7 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0080008 | CUL4_RING_ubiquitin_ligase_complex | | | | | | | |
| _01 | 6 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0080025 | Phosphatidylinositol-3,5-bisphosphate_binding | | | | | | | |
| _01 | 31 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0090090 | Negative_regulation_of_canonical_Wnt_receptor_signaling_pathway | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0090136 | Epithelial_cell-cell_adhesion | | | | | | | |
| _01 | 16 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0090263 | Positive_regulation_of_canonical_Wnt_receptor_signaling_pathway | | | | | | | |
| _01 | 5 | 0 | 1 | 1 | 0 | 0 | | GO: |
| 0090286 | Cytoskeletal_anchoring_at_nuclear_membrane | | | | | | | |

II. Interval-Gene-Target Summary

| _02 | INTERVAL | GENE_LOC | GENE_ID | GENE_DESC | TARGET | P |
|-----|----------|-----------------------|---------|-----------|-----------------------|---|
| _02 | int20: | chrM:7119859..7845353 | | | chrM:7794400..7841032 | |

51433 ANAPC5 A G0:0000075 Cell_cycle_checkpoint 1
_02 int20:chrM:7119859..7845353 chrM:7794400..7841032
51433 ANAPC5 A G0:0000086 G2/
M_transition_of_mitotic_cell_cycle 1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F G0:0000122
Negative_regulation_of_transcription_from_RNA_polymerase_II_promoter
1.1e-05
_02 int10:chr8:63223904..63813192 chr8:63705038..63706981
145258 GSC G G0:0000122
Negative_regulation_of_transcription_from_RNA_polymerase_II_promoter
1.1e-05
_02 int13:chr16:45965023..46373321 chr16:46053149..46131685
3660 IRF2 I G0:0000122
Negative_regulation_of_transcription_from_RNA_polymerase_II_promoter
1.1e-05
_02 int16:chrX:24666408..24763994 chrX:24599559..24692559
6304 SATB1 S G0:0000122
Negative_regulation_of_transcription_from_RNA_polymerase_II_promoter
1.1e-05
_02 int20:chrM:7119859..7845353 chrM:7145120..7148771
79369 B3GNT4 U G0:0000139 Golgi_membrane 1
_02 int3:chr6:18012525..18106914 chr6:18010887..18029186
9344 TAOK2 T G0:0000186 Activation_of_MAPKK_activity
1
_02 int3:chr6:18012525..18106914 chr6:18085139..18092858
5531 PPP4C P G0:0000226
Microtubule_cytoskeleton_organization 1
_02 int20:chrM:7119859..7845353 chrM:7794400..7841032
51433 ANAPC5 A G0:0000278 Mitotic_cell_cycle 1
_02 int5:chr7:16160915..16235033 chr7:16233741..16292928
1660 DHX9 D G0:0000398 Nuclear_mRNA_splicing,_via_spliceosome
1
_02 int16:chrX:24666408..24763994 chrX:24599559..24692559
6304 SATB1 S G0:0000785 Chromatin 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P G0:0001516
Prostaglandin_biosynthetic_process 1
_02 int0:chr4:31133158..31204643 chr4:30515861..31557604
10718 NRG3 N G0:0001558 Regulation_of_cell_growth
9.99999e-06
_02 int3:chr6:18012525..18106914 chr6:18010887..18029186
9344 TAOK2 T G0:0001558 Regulation_of_cell_growth
9.99999e-06
_02 int8:chr7:22714810..22804810 chr7:22772438..23143385
60676 PAPP2 P G0:0001558 Regulation_of_cell_growth
9.99999e-06
_02 int10:chr8:63223904..63813192 chr8:63386661..63400389
5265 SERPINA1 S G0:0001666 Response_to_hypoxia 1
_02 int3:chr6:18012525..18106914 chr6:18093188..18098314
6911 TBX6 T G0:0001707 Mesoderm_formation 1
_02 int3:chr6:18012525..18106914 chr6:18093188..18098314
6911 TBX6 T G0:0001708 Cell_fate_specification 1
_02 int10:chr8:63223904..63813192 chr8:63386661..63400389

5265 SERPINA1 S GO:0002020 Protease_binding 1
_02 int10:chr8:63223904..63813192 chr8:63567114..63577016
5104 SERPINA5 S GO:0002020 Protease_binding 1
_02 int3:chr6:18012525..18106914 chr6:18069904..18083053
226 ALDOA A GO:0002576 Platelet_degranulation
0.000348
_02 int10:chr8:63223904..63813192 chr8:63386661..63400389
5265 SERPINA1 S GO:0002576 Platelet_degranulation
0.000348
_02 int20:chrM:7119859..7845353 chrM:7264614..7295832
605 BCL7A B GO:0003674 Molecular_function 1
_02 int18:chrX:48440818..48536955 chrX:48407005..48456332
170506 DHX36 D GO:0003676 Nucleic_acid_binding 1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0003690 Double-stranded_DNA_binding
0.0012
_02 int16:chrX:24666408..24763994 chrX:24599559..24692559
6304 SATB1 S GO:0003690 Double-stranded_DNA_binding
0.0012
_02 int3:chr6:18012525..18106914 chr6:18093188..18098314
6911 TBX6 T GO:0003700 Sequence-specific_DNA_binding_transcription_factor_activity 3e-06
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0003700 Sequence-specific_DNA_binding_transcription_factor_activity 3e-06
_02 int10:chr8:63223904..63813192 chr8:63705038..63706981
145258 GSC G GO:0003700 Sequence-specific_DNA_binding_transcription_factor_activity 3e-06
_02 int13:chr16:45965023..46373321 chr16:46053149..46131685
3660 IRF2 I GO:0003700 Sequence-specific_DNA_binding_transcription_factor_activity 3e-06
_02 int16:chrX:24666408..24763994 chrX:24599559..24692559
6304 SATB1 S GO:0003700 Sequence-specific_DNA_binding_transcription_factor_activity 3e-06
_02 int20:chrM:7119859..7845353 chrM:7223951..7225043
652963 BTF3P12 B GO:0003700 Sequence-specific_DNA_binding_transcription_factor_activity 3e-06
_02 int13:chr16:45965023..46373321 chr16:46053149..46131685
3660 IRF2 I GO:0003702 RNA_polymerase_II_transcription_factor_activity 1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0003704 Specific_RNA_polymerase_II_transcription_factor_activity 1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0003705 Sequence-specific_enhancer_binding_RNA_polymerase_II_transcription_factor_activity 1
_02 int20:chrM:7119859..7845353 chrM:7443827..7467087
23067 SETD1B S GO:0003723 RNA_binding 1
_02 int5:chr7:16160915..16235033 chr7:16233741..16292928
1660 DHX9 D GO:0003724 RNA_helicase_activity 1
_02 int5:chr7:16160915..16235033 chr7:16233741..16292928
1660 DHX9 D GO:0003725 Double-stranded_RNA_binding 1
_02 int3:chr6:18012525..18106914 chr6:18069904..18083053

226 ALDOA A GO:0003779 Actin_binding 0.020267
_02 int11:chr10:69076487..69161721 chr10:69056997..69142988
119 ADD2 A GO:0003779 Actin_binding 0.020267
_02 int20:chrM:7119859..7845353 chrM:7478035..7489428
54509 RHOF R GO:0003924 GTPase_activity 1
_02 int5:chr7:16160915..16235033 chr7:16233741..16292928
1660 DHX9 D GO:0004003 ATP-dependent_DNA_helicase_activity
1
_02 int5:chr7:16160915..16235033 chr7:16233741..16292928
1660 DHX9 D GO:0004004 ATP-dependent_RNA_helicase_activity
1
_02 int2:chr5:29189236..29284352 chr5:29187858..29196161
4316 MMP7 M GO:0004222 Metalloendopeptidase_activity 0.001655
_02 int8:chr7:22714810..22804810 chr7:22772438..23143385
60676 PAPP2 P GO:0004222 Metalloendopeptidase_activity
0.001655
_02 int18:chrX:48440818..48536955 chrX:48407005..48456332
170506 DHX36 D GO:0004386 Helicase_activity 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0004601 Peroxidase_activity 1
_02 int3:chr6:18012525..18106914 chr6:18010887..18029186
9344 TAOK2 T GO:0004674 Protein_serine/
threonine_kinase_activity 1
_02 int3:chr6:18012525..18106914 chr6:18085139..18092858
5531 PPP4C P GO:0004722 Protein_serine/
threonine_phosphatase_activity 1
_02 int20:chrM:7119859..7845353 chrM:7794400..7841032
51433 ANAPC5 A GO:0004842 Ubiquitin-
protein_ligase_activity 1
_02 int10:chr8:63223904..63813192 chr8:63324149..63341782
866 SERPINA6 S GO:0004867 Serine-
type_endopeptidase_inhibitor_activity 1
_02 int10:chr8:63223904..63813192 chr8:63379422..63381819
390502 SERPINA2 S GO:0004867 Serine-
type_endopeptidase_inhibitor_activity 1
_02 int10:chr8:63223904..63813192 chr8:63386661..63400389
5265 SERPINA1 S GO:0004867 Serine-
type_endopeptidase_inhibitor_activity 1
_02 int10:chr8:63223904..63813192 chr8:63436708..63453265
256394 SERPINA11 S GO:0004867 Serine-
type_endopeptidase_inhibitor_activity 1
_02 int10:chr8:63223904..63813192 chr8:63473300..63488592
327657 SERPINA9 S GO:0004867 Serine-
type_endopeptidase_inhibitor_activity 1
_02 int10:chr8:63223904..63813192 chr8:63497827..63521295
145264 SERPINA12 S GO:0004867 Serine-
type_endopeptidase_inhibitor_activity 1
_02 int10:chr8:63223904..63813192 chr8:63552073..63560608
5267 SERPINA4 S GO:0004867 Serine-
type_endopeptidase_inhibitor_activity 1
_02 int10:chr8:63223904..63813192 chr8:63567114..63577016
5104 SERPINA5 S GO:0004867 Serine-
type_endopeptidase_inhibitor_activity 1
_02 int10:chr8:63223904..63813192 chr8:63588248..63596955

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|----------|---------------------------------------|---|------------|------------------------------------|----------|--|
| 12 | SERPINA3 | S | G0:0004867 | Serine- | | |
| | type_endopeptidase_inhibitor_activity | | | | 1 | |
| _02 | int18:chrX:48440818..48536955 | | | chrX:48471675..48535300 | | |
| 344758 | GPR149 | G | G0:0004872 | Receptor_activity | 1 | |
| _02 | int18:chrX:48440818..48536955 | | | chrX:48471675..48535300 | | |
| 344758 | GPR149 | G | G0:0004930 | G- | | |
| | protein_coupled_receptor_activity | | | | 1 | |
| _02 | int12:chr14:42191677..42265654 | | | chr14:42217642..42513368 | | |
| 1124 | CHN2 | C | G0:0005070 | SH3/SH2_adaptor_activity | 1 | |
| _02 | int12:chr14:42191677..42265654 | | | chr14:42217642..42513368 | | |
| 1124 | CHN2 | C | G0:0005096 | GTPase_activator_activity | 1 | |
| _02 | int20:chrM:7119859..7845353 | | | chrM:7173150..7175594 | | |
| 386653 | IL31 | I | G0:0005125 | Cytokine_activity | 1 | |
| _02 | int11:chr10:69076487..69161721 | | | chr10:69056997..69142988 | | |
| 119 | ADD2 | A | G0:0005198 | Structural_molecule_activity | 1 | |
| _02 | int3:chr6:18012525..18106914 | | | chr6:18041311..18046793 | | |
| 8448 | DOC2A | D | G0:0005215 | Transporter_activity | 1 | |
| _02 | int20:chrM:7119859..7845353 | | | chrM:7584448..7599633 | | |
| 84876 | ORAI1 | O | G0:0005216 | Ion_channel_activity | 1 | |
| _02 | int3:chr6:18012525..18106914 | | | chr6:18041311..18046793 | | |
| 8448 | DOC2A | D | G0:0005488 | Binding | 0.023215 | |
| _02 | int20:chrM:7119859..7845353 | | | chrM:7794400..7841032 | | |
| 51433 | ANAPC5 | A | G0:0005488 | Binding | 0.023215 | |
| _02 | int10:chr8:63223904..63813192 | | | chr8:63324149..63341782 | | |
| 866 | SERPINA6 | S | G0:0005496 | Steroid_binding | 1 | |
| _02 | int20:chrM:7119859..7845353 | | | chrM:7308885..7375053 | | |
| 144406 | WDR66 | W | G0:0005509 | Calcium_ion_binding | 1 | |
| _02 | int11:chr10:69076487..69161721 | | | chr10:69056997..69142988 | | |
| 119 | ADD2 | A | G0:0005516 | Calmodulin_binding | 1 | |
| _02 | int3:chr6:18012525..18106914 | | | chr6:18010887..18029186 | | |
| 9344 | TAOK2 | T | G0:0005524 | ATP_binding | 0.047166 | |
| _02 | int5:chr7:16160915..16235033 | | | chr7:16233741..16292928 | | |
| 1660 | DHX9 | D | G0:0005524 | ATP_binding | 0.047166 | |
| _02 | int18:chrX:48440818..48536955 | | | chrX:48407005..48456332 | | |
| 170506 | DHX36 | D | G0:0005524 | ATP_binding | 0.047166 | |
| _02 | int20:chrM:7119859..7845353 | | | chrM:7478035..7489428 | | |
| 54509 | RHOF | R | G0:0005525 | GTP_binding | 1 | |
| _02 | int10:chr8:63223904..63813192 | | | chr8:63567114..63577016 | | |
| 5104 | SERPINA5 | S | G0:0005539 | Glycosaminoglycan_binding | | |
| 1 | | | | | | |
| _02 | int3:chr6:18012525..18106914 | | | chr6:18041311..18046793 | | |
| 8448 | DOC2A | D | G0:0005544 | Calcium- | | |
| | dependent_phospholipid_binding | | | | 1 | |
| _02 | int8:chr7:22714810..22804810 | | | chr7:22455294..22753932 | | |
| 460 | ASTN1 | A | G0:0005575 | Cellular_component | 0.030622 | |
| _02 | int20:chrM:7119859..7845353 | | | chrM:7264614..7295832 | | |
| 605 | BCL7A | B | G0:0005575 | Cellular_component | 0.030622 | |
| _02 | int2:chr5:29189236..29284352 | | | chr5:29187858..29196161 | | |
| 4316 | MMP7 | M | G0:0005578 | Proteinaceous_extracellular_matrix | | |
| 0.011648 | | | | | | |
| _02 | int10:chr8:63223904..63813192 | | | chr8:63386661..63400389 | | |
| 5265 | SERPINA1 | S | G0:0005578 | | | |
| | Proteinaceous_extracellular_matrix | | | | 0.011648 | |
| _02 | int2:chr5:29189236..29284352 | | | chr5:29187858..29196161 | | |

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|--------|----------|---|--------------------------------|-----------------------------------|-----------|
| 4316 | MMP7 | M | GO:0005615 | Extracellular_space | 0.003443 |
| _02 | | | int10:chr8:63223904..63813192 | chr8:63324149..63341782 | |
| 866 | SERPINA6 | S | GO:0005615 | Extracellular_space | 0.003443 |
| _02 | | | int10:chr8:63223904..63813192 | chr8:63386661..63400389 | |
| 5265 | SERPINA1 | S | GO:0005615 | Extracellular_space | 0.003443 |
| _02 | | | int10:chr8:63223904..63813192 | chr8:63552073..63560608 | |
| 5267 | SERPINA4 | S | GO:0005615 | Extracellular_space | 0.003443 |
| _02 | | | int20:chrM:7119859..7845353 | chrM:7173150..7175594 | |
| 386653 | IL31 | I | GO:0005615 | Extracellular_space | 0.003443 |
| _02 | | | int5:chr7:16160915..16235033 | chr7:16233741..16292928 | |
| 1660 | DHX9 | D | GO:0005654 | Nucleoplasm | 0.002715 |
| _02 | | | int16:chrX:24666408..24763994 | chrX:24599559..24692559 | |
| 6304 | SATB1 | S | GO:0005654 | Nucleoplasm | 0.002715 |
| _02 | | | int20:chrM:7119859..7845353 | chrM:7794400..7841032 | |
| 51433 | ANAPC5 | A | GO:0005654 | Nucleoplasm | 0.002715 |
| _02 | | | int9:chr8:16013494..16106285 | chr8:16077537..16083232 | |
| 3169 | FOXA1 | F | GO:0005667 | Transcription_factor_complex | 0.000119 |
| _02 | | | int10:chr8:63223904..63813192 | chr8:63705038..63706981 | |
| 145258 | GSC | G | GO:0005667 | Transcription_factor_complex | 0.000119 |
| _02 | | | int11:chr10:69076487..69161721 | chr10:69148923..69162939 | |
| 344018 | FIGLA | F | GO:0005667 | Transcription_factor_complex | 0.000119 |
| _02 | | | int20:chrM:7119859..7845353 | chrM:7794400..7841032 | |
| 51433 | ANAPC5 | A | GO:0005680 | Anaphase-promoting_complex | 1 |
| _02 | | | int20:chrM:7119859..7845353 | chrM:7443827..7467087 | |
| 23067 | SETD1B | S | GO:0005694 | Chromosome | 1 |
| _02 | | | int16:chrX:24666408..24763994 | chrX:24599559..24692559 | |
| 6304 | SATB1 | S | GO:0005720 | Nuclear_heterochromatin | 1 |
| _02 | | | int3:chr6:18012525..18106914 | chr6:18010887..18029186 | |
| 9344 | TAOK2 | T | GO:0005730 | Nucleolus | 0.001055 |
| _02 | | | int3:chr6:18012525..18106914 | chr6:18098760..18102068 | |
| 83719 | YPEL3 | Y | GO:0005730 | Nucleolus | 0.001055 |
| _02 | | | int5:chr7:16160915..16235033 | chr7:16233741..16292928 | |
| 1660 | DHX9 | D | GO:0005730 | Nucleolus | 0.001055 |
| _02 | | | int13:chr16:45965023..46373321 | chr16:46053149..46131685 | |
| 3660 | IRF2 | I | GO:0005730 | Nucleolus | 0.001055 |
| _02 | | | int20:chrM:7119859..7845353 | chrM:7443827..7467087 | |
| 23067 | SETD1B | S | GO:0005730 | Nucleolus | 0.001055 |
| _02 | | | int20:chrM:7119859..7845353 | chrM:7625403..7746298 | |
| 84678 | KDM2B | L | GO:0005730 | Nucleolus | 0.001055 |
| _02 | | | int20:chrM:7119859..7845353 | chrM:7123780..7144993 | |
| 56616 | DIABLO | D | GO:0005739 | Mitochondrion | 1 |
| _02 | | | int20:chrM:7119859..7845353 | chrM:7123780..7144993 | |
| 56616 | DIABLO | D | GO:0005758 | Mitochondrial_intermembrane_space | 1 |
| _02 | | | int3:chr6:18012525..18106914 | chr6:18041311..18046793 | |
| 8448 | DOC2A | D | GO:0005764 | Lysosome | 1 |
| _02 | | | int3:chr6:18012525..18106914 | chr6:18053839..18057610 | |
| 83723 | FAM57B | F | GO:0005783 | Endoplasmic_reticulum | 0.0593539 |
| _02 | | | int7:chr7:19633367..19714459 | chr7:19668098..19674935 | |

5743 PTGS2 P GO:0005783 Endoplasmic_reticulum
0.0593539
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0005788 Endoplasmic_reticulum_lumen
1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0005789 Endoplasmic_reticulum_membrane
1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0005792 Microsome 1
_02 int20:chrM:7119859..7845353 chrM:7145120..7148771
79369 B3GNT4 U GO:0005794 Golgi_apparatus 1
_02 int3:chr6:18012525..18106914 chr6:18085139..18092858
5531 PPP4C P GO:0005813 Centrosome 0.00338
_02 int5:chr7:16160915..16235033 chr7:16233741..16292928
1660 DHX9 D GO:0005813 Centrosome 0.00338
_02 int3:chr6:18012525..18106914 chr6:18010887..18029186
9344 TAOK2 T GO:0005856 Cytoskeleton 0.00865799
_02 int3:chr6:18012525..18106914 chr6:18085139..18092858
5531 PPP4C P GO:0005856 Cytoskeleton 0.00865799
_02 int11:chr10:69076487..69161721 chr10:69056997..69142988
119 ADD2 A GO:0005856 Cytoskeleton 0.00865799
_02 int20:chrM:7119859..7845353 chrM:7478035..7489428
54509 RHOF R GO:0005856 Cytoskeleton 0.00865799
_02 int0:chr4:31133158..31204643 chr4:30515861..31557604
10718 NRG3 N GO:0005887 Integral_to_plasma_membrane 0.111196
_02 int20:chrM:7119859..7845353 chrM:7584448..7599633
84876 ORAI1 O GO:0005887 Integral_to_plasma_membrane
0.111196
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0005901 Caveola 1
_02 int13:chr16:45965023..46373321 chr16:46053149..46131685
3660 IRF2 I GO:0005925 Focal_adhesion 1
_02 int3:chr6:18012525..18106914 chr6:18069904..18083053
226 ALDOA A GO:0005975 Carbohydrate_metabolic_process
0.004555
_02 int5:chr7:16160915..16235033 chr7:16190066..16223809
80896 NPL N GO:0005975 Carbohydrate_metabolic_process 0.004555
_02 int3:chr6:18012525..18106914 chr6:18069904..18083053
226 ALDOA A GO:0006000 Fructose_metabolic_process
1
_02 int3:chr6:18012525..18106914 chr6:18069904..18083053
226 ALDOA A GO:0006006 Glucose_metabolic_process
0.000428
_02 int10:chr8:63223904..63813192 chr8:63497827..63521295
145264 SERPINA12 S GO:0006006 Glucose_metabolic_process
0.000428
_02 int3:chr6:18012525..18106914 chr6:18069904..18083053
226 ALDOA A GO:0006094 Gluconeogenesis 1
_02 int3:chr6:18012525..18106914 chr6:18069904..18083053
226 ALDOA A GO:0006096 Glycolysis 1
_02 int16:chrX:24666408..24763994 chrX:24599559..24692559
6304 SATB1 S GO:0006325 Chromatin_organization
1

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|--------|--|---|
| _02 | int3:chr6:18012525..18106914 | chr6:18030062..18033191 |
| 8479 | HIRIP3 H | G0:0006333 |
| | Chromatin_assembly_or_disassembly | 1 |
| _02 | int9:chr8:16013494..16106285 | chr8:16077537..16083232 |
| 3169 | FOXA1 F | G0:0006338 Chromatin_remodeling 1 |
| _02 | int3:chr6:18012525..18106914 | chr6:18093188..18098314 |
| 6911 | TBX6 T | G0:0006355 Regulation_of_transcription,_DNA-dependent 1.6e-05 |
| _02 | int10:chr8:63223904..63813192 | chr8:63705038..63706981 |
| 145258 | GSC G | G0:0006355 Regulation_of_transcription,_DNA-dependent 1.6e-05 |
| _02 | int13:chr16:45965023..46373321 | chr16:46053149..46131685 |
| 3660 | IRF2 I | G0:0006355 Regulation_of_transcription,_DNA-dependent 1.6e-05 |
| _02 | int16:chrX:24666408..24763994 | chrX:24599559..24692559 |
| 6304 | SATB1 S | G0:0006355 |
| | Regulation_of_transcription,_DNA-dependent | 1.6e-05 |
| _02 | int20:chrM:7119859..7845353 | chrM:7223951..7225043 |
| 652963 | BTF3P12 B | G0:0006355 |
| | Regulation_of_transcription,_DNA-dependent | 1.6e-05 |
| _02 | int20:chrM:7119859..7845353 | chrM:7145120..7148771 |
| 79369 | B3GNT4 U | G0:0006486 Protein_glycosylation 1 |
| _02 | int2:chr5:29189236..29284352 | chr5:29187858..29196161 |
| 4316 | MMP7 M | G0:0006508 Proteolysis 0.016238 |
| _02 | int8:chr7:22714810..22804810 | chr7:22772438..23143385 |
| 60676 | PAPPA2 P | G0:0006508 Proteolysis 0.016238 |
| _02 | int20:chrM:7119859..7845353 | chrM:7794400..7841032 |
| 51433 | ANAPC5 A | G0:0006511 Ubiquitin-dependent_protein_catabolic_process 1 |
| _02 | int3:chr6:18012525..18106914 | chr6:18010887..18029186 |
| 9344 | TAOK2 T | G0:0006612 Protein_targeting_to_membrane 1 |
| _02 | int7:chr7:19633367..19714459 | chr7:19668098..19674935 |
| 5743 | PTGS2 P | G0:0006633 Fatty_acid_biosynthetic_process 1 |
| _02 | int7:chr7:19633367..19714459 | chr7:19668098..19674935 |
| 5743 | PTGS2 P | G0:0006692 Prostanoid_metabolic_process 1 |
| _02 | int7:chr7:19633367..19714459 | chr7:19668098..19674935 |
| 5743 | PTGS2 P | G0:0006693 Prostaglandin_metabolic_process 1 |
| _02 | int3:chr6:18012525..18106914 | chr6:18069904..18083053 |
| 226 | ALDOA A | G0:0006754 ATP_biosynthetic_process 1 |
| _02 | int7:chr7:19633367..19714459 | chr7:19668098..19674935 |
| 5743 | PTGS2 P | G0:0006805 Xenobiotic_metabolic_process 1 |
| _02 | int10:chr8:63223904..63813192 | chr8:63324149..63341782 |
| 866 | SERPINA6 S | G0:0006810 Transport 1 |
| _02 | int11:chr10:69076487..69161721 | chr10:69056997..69142988 |
| 119 | ADD2 A | G0:0006811 Ion_transport 0.0635899 |
| _02 | int20:chrM:7119859..7845353 | chrM:7584448..7599633 |
| 84876 | ORAI1 0 | G0:0006811 Ion_transport 0.0635899 |
| _02 | int3:chr6:18012525..18106914 | chr6:18010887..18029186 |

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|--|--------------------------------|------------|--------------------------------------|----------|
| 9344 | TAOK2 T | G0:0006915 | Apoptosis | 0.002442 |
| _02 | int16:chrX:24666408..24763994 | | chrX:24599559..24692559 | |
| 6304 | SATB1 S | G0:0006915 | Apoptosis | 0.002442 |
| _02 | int20:chrM:7119859..7845353 | | chrM:7123780..7144993 | |
| 56616 | DIABLO D | G0:0006915 | Apoptosis | 0.002442 |
| _02 | int20:chrM:7119859..7845353 | | chrM:7749375..7767935 | |
| 80196 | RNF34 R | G0:0006915 | Apoptosis | 0.002442 |
| _02 | int20:chrM:7119859..7845353 | | chrM:7123780..7144993 | |
| 56616 | DIABLO D | G0:0006917 | Induction_of_apoptosis | |
| 1 | | | | |
| _02 | int20:chrM:7119859..7845353 | | chrM:7123780..7144993 | |
| 56616 | DIABLO D | G0:0006919 | Activation_of_caspase_activity | |
| 1 | | | | |
| _02 | int16:chrX:24666408..24763994 | | chrX:24599559..24692559 | |
| 6304 | SATB1 S | G0:0006921 | | |
| Cellular_component_disassembly_involved_in_apoptosis | | | | 1 |
| _02 | int7:chr7:19633367..19714459 | | chr7:19668098..19674935 | |
| 5743 | PTGS2 P | G0:0006928 | Cellular_component_movement | |
| 1 | | | | |
| _02 | int3:chr6:18012525..18106914 | | chr6:18069904..18083053 | |
| 226 | ALDOA A | G0:0006941 | Striated_muscle_contraction | |
| 1 | | | | |
| _02 | int3:chr6:18012525..18106914 | | chr6:18010887..18029186 | |
| 9344 | TAOK2 T | G0:0006950 | Response_to_stress | 1 |
| _02 | int10:chr8:63223904..63813192 | | chr8:63386661..63400389 | |
| 5265 | SERPINA1 S | G0:0006953 | Acute-phase_response | 1 |
| _02 | int10:chr8:63223904..63813192 | | chr8:63588248..63596955 | |
| 12 | SERPINA3 S | G0:0006953 | Acute-phase_response | 1 |
| _02 | int10:chr8:63223904..63813192 | | chr8:63588248..63596955 | |
| 12 | SERPINA3 S | G0:0006954 | Inflammatory_response | 1 |
| _02 | int7:chr7:19633367..19714459 | | chr7:19668098..19674935 | |
| 5743 | PTGS2 P | G0:0006979 | Response_to_oxidative_stress | |
| 1 | | | | |
| _02 | int3:chr6:18012525..18106914 | | chr6:18069904..18083053 | |
| 226 | ALDOA A | G0:0007015 | Actin_filament_organization | |
| 8.39999e-05 | | | | |
| _02 | int20:chrM:7119859..7845353 | | chrM:7478035..7489428 | |
| 54509 | RHOF R | G0:0007015 | Actin_filament_organization | |
| 8.39999e-05 | | | | |
| _02 | int20:chrM:7119859..7845353 | | chrM:7794400..7841032 | |
| 51433 | ANAPC5 A | G0:0007094 | | |
| Mitotic_cell_cycle_spindle_assembly_checkpoint | | | | 1 |
| _02 | int12:chr14:42191677..42265654 | | chr14:42217642..42513368 | |
| 1124 | CHN2 C | G0:0007165 | Signal_transduction | 1 |
| _02 | int0:chr4:31133158..31204643 | | chr4:30515861..31557604 | |
| 10718 | NRG3 N | G0:0007243 | Intracellular_protein_kinase_cascade | |
| 1 | | | | |
| _02 | int12:chr14:42191677..42265654 | | chr14:42217642..42513368 | |
| 1124 | CHN2 C | G0:0007264 | | |
| Small_GTPase_mediated_signal_transduction | | | | 0.013636 |
| _02 | int20:chrM:7119859..7845353 | | chrM:7478035..7489428 | |
| 54509 | RHOF R | G0:0007264 | | |
| Small_GTPase_mediated_signal_transduction | | | | 0.013636 |
| _02 | int3:chr6:18012525..18106914 | | chr6:18041311..18046793 | |

8448 DOC2A D GO:0007268 Synaptic_transmission 1
_02 int3:chr6:18012525..18106914 chr6:18093188..18098314
6911 TBX6 T GO:0007275 Multicellular_organismal_development
0.012557
_02 int10:chr8:63223904..63813192 chr8:63705038..63706981
145258 GSC G GO:0007275 Multicellular_organismal_development
0.012557
_02 int11:chr10:69076487..69161721 chr10:69148923..69162939
344018 FIGLA F GO:0007275
Multicellular_organismal_development 0.012557
_02 int10:chr8:63223904..63813192 chr8:63567114..63577016
5104 SERPINA5 S GO:0007283 Spermatogenesis 1
_02 int10:chr8:63223904..63813192 chr8:63567114..63577016
5104 SERPINA5 S GO:0007342
Fusion_of_sperm_to_egg_plasma_membrane 1
_02 int10:chr8:63223904..63813192 chr8:63705038..63706981
145258 GSC G GO:0007369 Gastrulation 1
_02 int0:chr4:31133158..31204643 chr4:30515861..31557604
10718 NRG3 N GO:0007389 Pattern_specification_process 0.001235
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0007389 Pattern_specification_process
0.001235
_02 int3:chr6:18012525..18106914 chr6:18041311..18046793
8448 DOC2A D GO:0007399 Nervous_system_development
1
_02 int3:chr6:18012525..18106914 chr6:18093188..18098314
6911 TBX6 T GO:0007498 Mesoderm_development 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0007566 Embryo_implantation 1
_02 int3:chr6:18012525..18106914 chr6:18069904..18083053
226 ALDOA A GO:0007596 Blood_coagulation 0.00111
_02 int10:chr8:63223904..63813192 chr8:63386661..63400389
5265 SERPINA1 S GO:0007596 Blood_coagulation 0.00111
_02 int20:chrM:7119859..7845353 chrM:7584448..7599633
84876 ORAI1 O GO:0007596 Blood_coagulation 0.00111
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0007613 Memory 1
_02 int8:chr7:22714810..22804810 chr7:22455294..22753932
460 ASTN1 A GO:0007626 Locomotory_behavior 1
_02 int18:chrX:48440818..48536955 chrX:48407005..48456332
170506 DHX36 D GO:0008026 ATP-dependent_helicase_activity
1
_02 int0:chr4:31133158..31204643 chr4:30515861..31557604
10718 NRG3 N GO:0008083 Growth_factor_activity 1
_02 int3:chr6:18012525..18106914 chr6:18069904..18083053
226 ALDOA A GO:0008092 Cytoskeletal_protein_binding
1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0008134 Transcription_factor_binding
0.00613999
_02 int11:chr10:69076487..69161721 chr10:69148923..69162939
344018 FIGLA F GO:0008134 Transcription_factor_binding
0.00613999
_02 int20:chrM:7119859..7845353 chrM:7625403..7746298

84678 KDM2B L GO:0008150 Biological_process 1
_02 int2:chr5:29189236..29284352 chr5:29187858..29196161
4316 MMP7 M GO:0008152 Metabolic_process 1
_02 int20:chrM:7119859..7845353 chrM:7443827..7467087
23067 SETD1B S GO:0008168 Methyltransferase_activity
1
_02 int10:chr8:63223904..63813192 chr8:63567114..63577016
5104 SERPINA5 S GO:0008201 Heparin_binding 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0008217 Regulation_of_blood_pressure
1
_02 int2:chr5:29189236..29284352 chr5:29187858..29196161
4316 MMP7 M GO:0008233 Peptidase_activity 0.019572
_02 int8:chr7:22714810..22804810 chr7:22772438..23143385
60676 PAPP2 P GO:0008233 Peptidase_activity 0.019572
_02 int8:chr7:22714810..22804810 chr7:22772438..23143385
60676 PAPP2 P GO:0008237 Metallopeptidase_activity
1
_02 int13:chr16:45965023..46373321 chr16:46053149..46131685
3660 IRF2 I GO:0008283 Cell_proliferation 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0008285
Negative_regulation_of_cell_proliferation 1
_02 int10:chr8:63223904..63813192 chr8:63202560..63300353
57718 PPP4R4 P GO:0008287 Protein_serine/
threonine_phosphatase_complex 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0008289 Lipid_binding 1
_02 int11:chr10:69076487..69161721 chr10:69056997..69142988
119 ADD2 A GO:0008290 F-actin_capping_protein_complex
1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0008301 DNA_bending_activity 1
_02 int3:chr6:18012525..18106914 chr6:18010887..18029186
9344 TAOK2 T GO:0008360 Regulation_of_cell_shape
1
_02 int3:chr6:18012525..18106914 chr6:18069904..18083053
226 ALDOA A GO:0008360 Regulation_of_cell_shape
1
_02 int20:chrM:7119859..7845353 chrM:7145120..7148771
79369 B3GNT4 U GO:0008378 Galactosyltransferase_activity
1
_02 int5:chr7:16160915..16235033 chr7:16233741..16292928
1660 DHX9 D GO:0008380 RNA_splicing 1
_02 int20:chrM:7119859..7845353 chrM:7123780..7144993
56616 DIABLO D GO:0008625
Induction_of_apoptosis_via_death_domain_receptors 1
_02 int20:chrM:7119859..7845353 chrM:7123780..7144993
56616 DIABLO D GO:0008629
Induction_of_apoptosis_by_intracellular_signals 1
_02 int20:chrM:7119859..7845353 chrM:7123780..7144993
56616 DIABLO D GO:0008631
Induction_of_apoptosis_by_oxidative_stress 1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232

3169 FOXA1 F G0:0008634
Negative_regulation_of_survival_gene_product_expression 1
_02 int20:chrM:7119859..7845353 chrM:7123780..7144993
56616 DIABLO D G0:0008635
Activation_of_caspase_activity_by_cytochrome_c 1
_02 int13:chr16:45965023..46373321 chr16:46247401..46358457
133121 ENPP6 E G0:0008889
Glycerophosphodiester_phosphodiesterase_activity 1
_02 int3:chr6:18012525..18106914 chr6:18093188..18098314
6911 TBX6 T G0:0009653 Anatomical_structure_morphogenesis
0.000601999
_02 int10:chr8:63223904..63813192 chr8:63705038..63706981
145258 GSC G G0:0009653 Anatomical_structure_morphogenesis
0.000601999
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P G0:0009750 Response_to_fructose_stimulus
1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F G0:0009790 Embryo_development 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P G0:0010243 Response_to_organic_nitrogen
1
_02 int10:chr8:63223904..63813192 chr8:63386661..63400389
5265 SERPINA1 S G0:0010288 Response_to_lead_ion 1
_02 int5:chr7:16160915..16235033 chr7:16233741..16292928
1660 DHX9 D G0:0010467 Gene_expression 1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F G0:0010551 Regulation_of_gene-
specific_transcription_from_RNA_polymerase_II_promoter 1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F G0:0010552 Positive_regulation_of_gene-
specific_transcription_from_RNA_polymerase_II_promoter 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P G0:0010575
Positive_regulation_vascular_endothelial_growth_factor_production
1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F G0:0010843 Promoter_binding 1
_02 int20:chrM:7119859..7845353 chrM:7749375..7767935
80196 RNF34 R G0:0012505 Endomembrane_system 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P G0:0014070
Response_to_organic_cyclic_substance 0.000727999
_02 int10:chr8:63223904..63813192 chr8:63386661..63400389
5265 SERPINA1 S G0:0014070
Response_to_organic_cyclic_substance 0.000727999
_02 int3:chr6:18012525..18106914 chr6:18069904..18083053
226 ALDOA A G0:0015629 Actin_cytoskeleton 1
_02 int3:chr6:18012525..18106914 chr6:18069904..18083053
226 ALDOA A G0:0015631 Tubulin_binding 1
_02 int3:chr6:18012525..18106914 chr6:18010887..18029186
9344 TAOK2 T G0:0016023 Cytoplasmic_membrane-
bounded_vesicle 1
_02 int13:chr16:45965023..46373321 chr16:46247401..46358457

133121 ENPP6 E G0:0016042 Lipid_catabolic_process
1
_02 int3:chr6:18012525..18106914 chr6:18041311..18046793
8448 DOC2A D G0:0016079 Synaptic_vesicle_exocytosis
1
_02 int16:chrX:24666408..24763994 chrX:24599559..24692559
6304 SATB1 S G0:0016363 Nuclear_matrix 1
_02 int3:chr6:18012525..18106914 chr6:18010887..18029186
9344 TAOK2 T G0:0016477 Cell_migration 0.001313
_02 int8:chr7:22714810..22804810 chr7:22455294..22753932
460 ASTN1 A G0:0016477 Cell_migration 0.001313
_02 int20:chrM:7119859..7845353 chrM:7264614..7295832
605 BCL7A B G0:0016481
Negative_regulation_of_transcription 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P G0:0016491 Oxidoreductase_activity
0.011199
_02 int20:chrM:7119859..7845353 chrM:7625403..7746298
84678 KDM2B L G0:0016491 Oxidoreductase_activity
0.011199
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F G0:0016563
Transcription_activator_activity 1
_02 int16:chrX:24666408..24763994 chrX:24599559..24692559
6304 SATB1 S G0:0016564
Transcription_repressor_activity 1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F G0:0016566
Specific_transcriptional_repressor_activity 1
_02 int16:chrX:24666408..24763994 chrX:24599559..24692559
6304 SATB1 S G0:0016568 Chromatin_modification
0.00593299
_02 int20:chrM:7119859..7845353 chrM:7443827..7467087
23067 SETD1B S G0:0016568 Chromatin_modification
0.00593299
_02 int20:chrM:7119859..7845353 chrM:7625403..7746298
84678 KDM2B L G0:0016568 Chromatin_modification
0.00593299
_02 int16:chrX:24666408..24763994 chrX:24599559..24692559
6304 SATB1 S G0:0016571 Histone_methylation 1
_02 int16:chrX:24666408..24763994 chrX:24599559..24692559
6304 SATB1 S G0:0016605 PML_body 1
_02 int20:chrM:7119859..7845353 chrM:7443827..7467087
23067 SETD1B S G0:0016607 Nuclear_speck 1
_02 int20:chrM:7119859..7845353 chrM:7749375..7767935
80196 RNF34 R G0:0016607 Nuclear_speck 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P G0:0016702
Oxidoreductase_activity,_acting_on_single_donors_with_incorporation_of_molecular_oxygen,_incorporation_of_two_atoms_of_oxygen 0.000314
_02 int20:chrM:7119859..7845353 chrM:7625403..7746298
84678 KDM2B L G0:0016702
Oxidoreductase_activity,_acting_on_single_donors_with_incorporation_of_molecular_oxygen,_incorporation_of_two_atoms_of_oxygen 0.000314

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| _02 | int3:chr6:18012525..18106914 | chr6:18010887..18029186 | |
| 9344 | TAOK2 T | G0:0016740 | Transferase_activity 0.1261 |
| _02 | int20:chrM:7119859..7845353 | chrM:7443827..7467087 | |
| 23067 | SETD1B S | G0:0016740 | Transferase_activity 0.1261 |
| _02 | int20:chrM:7119859..7845353 | chrM:7145120..7148771 | |
| 79369 | B3GNT4 U | G0:0016757 | |
| Transferase_activity,_transferring_glycosyl_groups | | | 1 |
| _02 | int3:chr6:18012525..18106914 | chr6:18085139..18092858 | |
| 5531 | PPP4C P | G0:0016787 | Hydrolase_activity 0.001131 |
| _02 | int5:chr7:16160915..16235033 | chr7:16233741..16292928 | |
| 1660 | DHX9 D | G0:0016787 | Hydrolase_activity 0.001131 |
| _02 | int13:chr16:45965023..46373321 | chr16:46247401..46358457 | |
| 133121 | ENPP6 E | G0:0016787 | Hydrolase_activity 0.001131 |
| _02 | int18:chrX:48440818..48536955 | chrX:48407005..48456332 | |
| 170506 | DHX36 D | G0:0016787 | Hydrolase_activity 0.001131 |
| _02 | int3:chr6:18012525..18106914 | chr6:18069904..18083053 | |
| 226 | ALDOA A | G0:0016829 | Lyase_activity 0.000477 |
| _02 | int5:chr7:16160915..16235033 | chr7:16190066..16223809 | |
| 80896 | NPL N | G0:0016829 | Lyase_activity 0.000477 |
| _02 | int20:chrM:7119859..7845353 | chrM:7749375..7767935 | |
| 80196 | RNF34 R | G0:0016874 | Ligase_activity 1 |
| _02 | int3:chr6:18012525..18106914 | chr6:18041311..18046793 | |
| 8448 | DOC2A D | G0:0017158 | Regulation_of_calcium_ion- dependent_exocytosis 1 |
| _02 | int10:chr8:63223904..63813192 | chr8:63588248..63596955 | |
| 12 | SERPINA3 S | G0:0019216 | |
| Regulation_of_lipid_metabolic_process | | | 1 |
| _02 | int3:chr6:18012525..18106914 | chr6:18041311..18046793 | |
| 8448 | DOC2A D | G0:0019717 | Synaptosome 1 |
| _02 | int20:chrM:7119859..7845353 | chrM:7625403..7746298 | |
| 84678 | KDM2B L | G0:0019843 | RRNA_binding 1 |
| _02 | int7:chr7:19633367..19714459 | chr7:19668098..19674935 | |
| 5743 | PTGS2 P | G0:0019899 | Enzyme_binding 1 |
| _02 | int9:chr8:16013494..16106285 | chr8:16077537..16083232 | |
| 3169 | FOXA1 F | G0:0019904 | Protein_domain_specific_binding 1 |
| _02 | int7:chr7:19633367..19714459 | chr7:19668098..19674935 | |
| 5743 | PTGS2 P | G0:0020037 | Heme_binding 1 |
| _02 | int10:chr8:63223904..63813192 | chr8:63705038..63706981 | |
| 145258 | GSC G | G0:0021904 | Dorsal/ventral_neural_tube_patterning 1 |
| _02 | int3:chr6:18012525..18106914 | chr6:18010887..18029186 | |
| 9344 | TAOK2 T | G0:0030036 | Actin_cytoskeleton_organization 0.00546999 |
| _02 | int11:chr10:69076487..69161721 | chr10:69056997..69142988 | |
| 119 | ADD2 A | G0:0030036 | Actin_cytoskeleton_organization 0.00546999 |
| _02 | int3:chr6:18012525..18106914 | chr6:18041311..18046793 | |
| 8448 | DOC2A D | G0:0030054 | Cell_junction 0.0549819 |
| _02 | int19:chrY:41275569..41346277 | chrY:41314209..41321352 | |
| 140689 | CBLN4 C | G0:0030054 | Cell_junction 0.0549819 |
| _02 | int1:chr5:6499318..8170565 | chr5:7583475..8124265 | |
| 84623 | KIRREL3 K | G0:0030097 | Hemopoiesis 0.000805999 |
| _02 | int11:chr10:69076487..69161721 | chr10:69056997..69142988 | |

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|---|--------------------------------|---|-------------|
| 119 | ADD2 A | G0:0030097 Hemopoiesis | 0.000805999 |
| _02 | int8:chr7:22714810..22804810 | chr7:22772438..23143385 | |
| 60676 | PAPPA2 P | G0:0030154 Cell_differentiation | 0.030068 |
| _02 | int11:chr10:69076487..69161721 | chr10:69148923..69162939 | |
| 344018 | FIGLA F | G0:0030154 Cell_differentiation | 0.030068 |
| _02 | int3:chr6:18012525..18106914 | chr6:18069904..18083053 | |
| 226 | ALDOA A | G0:0030168 Platelet_activation | |
| 0.000547999 | | | |
| _02 | int10:chr8:63223904..63813192 | chr8:63386661..63400389 | |
| 5265 | SERPINA1 S | G0:0030168 Platelet_activation | |
| 0.000547999 | | | |
| _02 | int20:chrM:7119859..7845353 | chrM:7584448..7599633 | |
| 84876 | ORAI1 O | G0:0030168 Platelet_activation | |
| 0.000547999 | | | |
| _02 | int10:chr8:63223904..63813192 | chr8:63705038..63706981 | |
| 145258 | GSC G | G0:0030178 | |
| Negative_regulation_of_Wnt_receptor_signaling_pathway | | | 1 |
| _02 | int7:chr7:19633367..19714459 | chr7:19668098..19674935 | |
| 5743 | PTGS2 P | G0:0030282 Bone_mineralization | 1 |
| _02 | int9:chr8:16013494..16106285 | chr8:16077537..16083232 | |
| 3169 | FOXA1 F | G0:0030324 Lung_development | 1 |
| _02 | int10:chr8:63223904..63813192 | chr8:63379422..63381819 | |
| 390502 | SERPINA2 S | G0:0030414 Peptidase_inhibitor_activity | |
| 1 | | | |
| _02 | int10:chr8:63223904..63813192 | chr8:63386661..63400389 | |
| 5265 | SERPINA1 S | G0:0030414 Peptidase_inhibitor_activity | |
| 1 | | | |
| _02 | int10:chr8:63223904..63813192 | chr8:63436708..63453265 | |
| 256394 | SERPINA11 S | G0:0030414 Peptidase_inhibitor_activity | |
| 1 | | | |
| _02 | int10:chr8:63223904..63813192 | chr8:63473300..63488592 | |
| 327657 | SERPINA9 S | G0:0030414 Peptidase_inhibitor_activity | |
| 1 | | | |
| _02 | int10:chr8:63223904..63813192 | chr8:63497827..63521295 | |
| 145264 | SERPINA12 S | G0:0030414 Peptidase_inhibitor_activity | |
| 1 | | | |
| _02 | int10:chr8:63223904..63813192 | chr8:63552073..63560608 | |
| 5267 | SERPINA4 S | G0:0030414 Peptidase_inhibitor_activity | |
| 1 | | | |
| _02 | int10:chr8:63223904..63813192 | chr8:63567114..63577016 | |
| 5104 | SERPINA5 S | G0:0030414 Peptidase_inhibitor_activity | |
| 1 | | | |
| _02 | int10:chr8:63223904..63813192 | chr8:63588248..63596955 | |
| 12 | SERPINA3 S | G0:0030414 Peptidase_inhibitor_activity | |
| 1 | | | |
| _02 | int11:chr10:69076487..69161721 | chr10:69056997..69142988 | |
| 119 | ADD2 A | G0:0030507 Spectrin_binding | 1 |
| _02 | int10:chr8:63223904..63813192 | chr8:63705038..63706981 | |
| 145258 | GSC G | G0:0030528 Transcription_regulator_activity | |
| 0.004723 | | | |
| _02 | int11:chr10:69076487..69161721 | chr10:69148923..69162939 | |
| 344018 | FIGLA F | G0:0030528 | |
| Transcription_regulator_activity | | | 0.004723 |
| _02 | int5:chr7:16160915..16235033 | chr7:16233741..16292928 | |

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|-------------|------------|--------------------------------|--|---|
| 1660 | DHX9 D | G0:0030529 | Ribonucleoprotein_complex | 1 |
| _02 | | int2:chr5:29189236..29284352 | chr5:29187858..29196161 | |
| 4316 | MMP7 M | G0:0030574 | Collagen_catabolic_process | 1 |
| _02 | | int3:chr6:18012525..18106914 | chr6:18010887..18029186 | |
| 9344 | TAOK2 T | G0:0030659 | Cytoplasmic_vesicle_membrane | |
| 1 | | | | |
| _02 | | int3:chr6:18012525..18106914 | chr6:18041311..18046793 | |
| 8448 | DOC2A D | G0:0030672 | Synaptic_vesicle_membrane | |
| 1 | | | | |
| _02 | | int7:chr7:19633367..19714459 | chr7:19668098..19674935 | |
| 5743 | PTGS2 P | G0:0030728 | Ovulation | 1 |
| _02 | | int0:chr4:31133158..31204643 | chr4:30515861..31557604 | |
| 10718 | NRG3 N | G0:0030879 | Mammary_gland_development | 1 |
| _02 | | int10:chr8:63223904..63813192 | chr8:63705038..63706981 | |
| 145258 | GSC G | G0:0030900 | Forebrain_development | 1 |
| _02 | | int0:chr4:31133158..31204643 | chr4:30515861..31557604 | |
| 10718 | NRG3 N | G0:0030971 | Receptor_tyrosine_kinase_binding | |
| 1 | | | | |
| _02 | | int3:chr6:18012525..18106914 | chr6:18069904..18083053 | |
| 226 | ALDOA A | G0:0031093 | Platelet_alpha_granule_lumen | |
| 8.49999e-05 | | | | |
| _02 | | int10:chr8:63223904..63813192 | chr8:63386661..63400389 | |
| 5265 | SERPINA1 S | G0:0031093 | Platelet_alpha_granule_lumen | |
| 8.49999e-05 | | | | |
| _02 | | int20:chrM:7119859..7845353 | chrM:7794400..7841032 | |
| 51433 | ANAPC5 A | G0:0031145 | Anaphase-promoting_complex-dependent_proteasomal_ubiquitin-dependent_protein_catabolic_process | |
| 1 | | | | |
| _02 | | int3:chr6:18012525..18106914 | chr6:18041311..18046793 | |
| 8448 | DOC2A D | G0:0031410 | Cytoplasmic_vesicle | 1 |
| _02 | | int7:chr7:19633367..19714459 | chr7:19668098..19674935 | |
| 5743 | PTGS2 P | G0:0031622 | Positive_regulation_of_fever | |
| 1 | | | | |
| _02 | | int3:chr6:18012525..18106914 | chr6:18069904..18083053 | |
| 226 | ALDOA A | G0:0031674 | I_band | 1 |
| _02 | | int11:chr10:69076487..69161721 | chr10:69056997..69142988 | |
| 119 | ADD2 A | G0:0032092 | Positive_regulation_of_protein_binding | |
| 1 | | | | |
| _02 | | int7:chr7:19633367..19714459 | chr7:19668098..19674935 | |
| 5743 | PTGS2 P | G0:0032355 | Response_to_estradiol_stimulus | |
| 3e-06 | | | | |
| _02 | | int9:chr8:16013494..16106285 | chr8:16077537..16083232 | |
| 3169 | FOXA1 F | G0:0032355 | Response_to_estradiol_stimulus | |
| 3e-06 | | | | |
| _02 | | int10:chr8:63223904..63813192 | chr8:63386661..63400389 | |
| 5265 | SERPINA1 S | G0:0032355 | Response_to_estradiol_stimulus | |
| 3e-06 | | | | |
| _02 | | int7:chr7:19633367..19714459 | chr7:19668098..19674935 | |
| 5743 | PTGS2 P | G0:0032496 | Response_to_lipopolysaccharide | |
| 0.000601999 | | | | |
| _02 | | int10:chr8:63223904..63813192 | chr8:63386661..63400389 | |
| 5265 | SERPINA1 S | G0:0032496 | Response_to_lipopolysaccharide | |
| 0.000601999 | | | | |
| _02 | | int7:chr7:19633367..19714459 | chr7:19668098..19674935 | |

5743 PTGS2 P GO:0033280 Response_to_vitamin_D 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0034097 Response_to_cytokine_stimulus
0.000151
_02 int10:chr8:63223904..63813192 chr8:63386661..63400389
5265 SERPINA1 S GO:0034097 Response_to_cytokine_stimulus
0.000151
_02 int5:chr7:16160915..16235033 chr7:16233741..16292928
1660 DHX9 D GO:0034605 Cellular_response_to_heat 1
_02 int20:chrM:7119859..7845353 chrM:7443827..7467087
23067 SETD1B S GO:0035097
Histone_methyltransferase_complex 1
_02 int16:chrX:24666408..24763994 chrX:24599559..24692559
6304 SATB1 S GO:0042110 T_cell_activation 1
_02 int2:chr5:29189236..29284352 chr5:29187858..29196161
4316 MMP7 M GO:0042127 Regulation_of_cell_proliferation
1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0042445 Hormone_metabolic_process
1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0042446 Hormone_biosynthetic_process
1
_02 int10:chr8:63223904..63813192 chr8:63705038..63706981
145258 GSC G GO:0042474 Middle_ear_morphogenesis 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0042493 Response_to_drug 1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0042593 Glucose_homeostasis 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0042640 Anagen 1
_02 int20:chrM:7119859..7845353 chrM:7443827..7467087
23067 SETD1B S GO:0042800
Histone_methyltransferase_activity_(H3-K4_specific) 1
_02 int3:chr6:18012525..18106914 chr6:18069904..18083053
226 ALDOA A GO:0042802 Identical_protein_binding
1
_02 int11:chr10:69076487..69161721 chr10:69056997..69142988
119 ADD2 A GO:0042803 Protein_homodimerization_activity
1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0043065
Positive_regulation_of_apoptosis 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0043234 Protein_complex 0.00452
_02 int10:chr8:63223904..63813192 chr8:63567114..63577016
5104 SERPINA5 S GO:0043234 Protein_complex 0.00452
_02 int10:chr8:63223904..63813192 chr8:63705038..63706981
145258 GSC G GO:0043565 Sequence-specific_DNA_binding 0.001001
_02 int11:chr10:69076487..69161721 chr10:69148923..69162939
344018 FIGLA F GO:0043565 Sequence-specific_DNA_binding
0.001001
_02 int16:chrX:24666408..24763994 chrX:24599559..24692559
6304 SATB1 S GO:0043565 Sequence-specific_DNA_binding

0.001001
_02 int10:chr8:63223904..63813192 chr8:63705038..63706981
145258 GSC G GO:0043583 Ear_development 1
_02 int16:chrX:24666408..24763994 chrX:24599559..24692559
6304 SATB1 S GO:0044419
Interspecies_interaction_between_organisms 1
_02 int3:chr6:18012525..18106914 chr6:18041311..18046793
8448 DOC2A D GO:0045202 Synapse 0.037092
_02 int19:chrY:41275569..41346277 chrY:41314209..41321352
140689 CBLN4 C GO:0045202 Synapse 0.037092
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0045429
Positive_regulation_of_nitric_oxide_biosynthetic_process 1
_02 int13:chr16:45965023..46373321 chr16:46053149..46131685
3660 IRF2 I GO:0045449 Regulation_of_transcription
0.0647219
_02 int20:chrM:7119859..7845353 chrM:7443827..7467087
23067 SETD1B S GO:0045449 Regulation_of_transcription
0.0647219
_02 int20:chrM:7119859..7845353 chrM:7625403..7746298
84678 KDM2B L GO:0045449 Regulation_of_transcription
0.0647219
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0045666
Positive_regulation_of_neuron_differentiation 1
_02 int10:chr8:63223904..63813192 chr8:63567114..63577016
5104 SERPINA5 S GO:0045861
Negative_regulation_of_proteolysis 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0045907
Positive_regulation_of_vasoconstriction 1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0045931
Positive_regulation_of_mitotic_cell_cycle 1
_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0045944
Positive_regulation_of_transcription_from_RNA_polymerase_II_promoter
1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0045987
Positive_regulation_of_smooth_muscle_contraction 1
_02 int3:chr6:18012525..18106914 chr6:18010887..18029186
9344 TAOK2 T GO:0046330
Positive_regulation_of_JNK_cascade 1
_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0046697 Decidualization 1
_02 int3:chr6:18012525..18106914 chr6:18069904..18083053
226 ALDOA A GO:0046716 Muscle_cell_homeostasis
1
_02 int11:chr10:69076487..69161721 chr10:69056997..69142988
119 ADD2 A GO:0046982 Protein_heterodimerization_activity
1
_02 int3:chr6:18012525..18106914 chr6:18010887..18029186
9344 TAOK2 T GO:0048041 Focal_adhesion_assembly

1

_02 int20:chrM:7119859..7845353 chrM:7443827..7467087
23067 SETD1B S GO:0048188 Set1C/COMPASS_complex 1

_02 int11:chr10:69076487..69161721 chr10:69148923..69162939
344018 FIGLA F GO:0048477 Oogenesis 1

_02 int11:chr10:69076487..69161721 chr10:69148923..69162939
344018 FIGLA F GO:0048599 Oocyte_development 1

_02 int10:chr8:63223904..63813192 chr8:63705038..63706981
145258 GSC G GO:0048644 Muscle_organ_morphogenesis 1

_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0048661

Positive_regulation_of_smooth_muscle_cell_proliferation 1

_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0048665 Neuron_fate_specification

1

_02 int10:chr8:63223904..63813192 chr8:63705038..63706981
145258 GSC G GO:0048704 Embryonic_skeletal_system_morphogenesis 1

_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0048754

Branching_morphogenesis_of_a_tube 1

_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0050727

Regulation_of_inflammatory_response 1

_02 int11:chr10:69076487..69161721 chr10:69056997..69142988
119 ADD2 A GO:0051015 Actin_filament_binding 1

_02 int11:chr10:69076487..69161721 chr10:69056997..69142988
119 ADD2 A GO:0051017 Actin_filament_bundle_assembly 1

_02 int12:chr14:42191677..42265654 chr14:42217642..42513368
1124 CHN2 C GO:0051056

Regulation_of_small_GTPase_mediated_signal_transduction
0.00927499

_02 int20:chrM:7119859..7845353 chrM:7478035..7489428
54509 RHOF R GO:0051056

Regulation_of_small_GTPase_mediated_signal_transduction
0.00927499

_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0051090

Regulation_of_transcription_factor_activity 1

_02 int9:chr8:16013494..16106285 chr8:16077537..16083232
3169 FOXA1 F GO:0051091

Positive_regulation_of_transcription_factor_activity 1

_02 int20:chrM:7119859..7845353 chrM:7794400..7841032
51433 ANAPC5 A GO:0051301 Cell_division 1

_02 int7:chr7:19633367..19714459 chr7:19668098..19674935
5743 PTGS2 P GO:0051384

Response_to_glucocorticoid_stimulus 1

_02 int20:chrM:7119859..7845353 chrM:7794400..7841032
51433 ANAPC5 A GO:0051436

Negative_regulation_of_ubiquitin-
protein_ligase_activity_involved_in_mitotic_cell_cycle 1

_02 int20:chrM:7119859..7845353 chrM:7794400..7841032
51433 ANAPC5 A GO:0051437

Positive_regulation_of_ubiquitin-

protein_ligase_activity_involved_in_mitotic_cell_cycle 1
 _02 int20:chrM:7119859..7845353 chrM:7794400..7841032
 51433 ANAPC5 A GO:0051439 Regulation_of_ubiquitin-
 protein_ligase_activity_involved_in_mitotic_cell_cycle 1
 _02 int20:chrM:7119859..7845353 chrM:7443827..7467087
 23067 SETD1B S GO:0051568 Histone_H3-K4_methylation
 1
 _02 int7:chr7:19633367..19714459 chr7:19668098..19674935
 5743 PTGS2 P GO:0051726 Regulation_of_cell_cycle
 1
 _02 int20:chrM:7119859..7845353 chrM:7625403..7746298
 84678 KDM2B L GO:0051864
 Histone_demethylase_activity_(H3-K36_specific) 1
 _02 int20:chrM:7119859..7845353 chrM:7584448..7599633
 84876 ORAI1 O GO:0051924
 Regulation_of_calcium_ion_transport 1
 _02 int20:chrM:7119859..7845353 chrM:7584448..7599633
 84876 ORAI1 O GO:0051928
 Positive_regulation_of_calcium_ion_transport 1
 _02 int7:chr7:19633367..19714459 chr7:19668098..19674935
 5743 PTGS2 P GO:0051968
 Positive_regulation_of_synaptic_transmission,_glutamatergic
 1
 _02 int7:chr7:19633367..19714459 chr7:19668098..19674935
 5743 PTGS2 P GO:0055114 Oxidation-reduction_process
 0.01498
 _02 int20:chrM:7119859..7845353 chrM:7625403..7746298
 84678 KDM2B L GO:0055114 Oxidation-reduction_process
 0.01498
 _02 int9:chr8:16013494..16106285 chr8:16077537..16083232
 3169 FOXA1 F GO:0060441
 Epithelial_tube_branching_involved_in_lung_morphogenesis 1
 _02 int9:chr8:16013494..16106285 chr8:16077537..16083232
 3169 FOXA1 F GO:0060740
 Prostate_gland_epithelium_morphogenesis 1
 _02 int5:chr7:16160915..16235033 chr7:16233741..16292928
 1660 DHX9 D GO:0070934 CRD-mediated_mRNA_stabilization
 1
 _02 int5:chr7:16160915..16235033 chr7:16233741..16292928
 1660 DHX9 D GO:0070937 CRD-mediated_mRNA_stability_complex
 1
 _02 int20:chrM:7119859..7845353 chrM:7794400..7841032
 51433 ANAPC5 A GO:0070979 Protein_K11-
 linked_ubiquitination 1

III. Interval Summary

| _03 | INTERVAL | N_SNP | N_ALTLOC | N_GENE | GENE_ID | GENE_DESC |
|-------|------------------------------|-------|----------|--------|---------|-----------|
| _03 | int0:chr4:31133158..31204643 | | | | 0 | 0 1 |
| 10718 | NRG3 | n | | | | |
| _03 | int1:chr5:6499318..8170565 | | | | 0 | 0 2 |

| | | | | |
|-----------------|-------------------------------|---|---|----|
| 84623,100422918 | KIRREL3,MIR3167 k ; m ; | | | |
| _03 | int1:chr5:6499318..8170565 | 0 | 0 | 2 |
| 399972,28960 | FLJ39051,DCPS h ; d ; | | | |
| _03 | int2:chr5:29189236..29284352 | 0 | 0 | 1 |
| 4316 | MMP7 m | | | |
| _03 | int3:chr6:18012525..18106914 | 0 | 0 | 8 |
| 9344 | TAOK2 T | | | |
| _03 | int3:chr6:18012525..18106914 | 0 | 0 | 8 |
| 8479 | HIRIP3 H | | | |
| _03 | int3:chr6:18012525..18106914 | 0 | 0 | 8 |
| 283899,8448 | IN080E,DOC2A I ; d ; | | | |
| _03 | int3:chr6:18012525..18106914 | 0 | 0 | 8 |
| 146378,83723 | C16orf92,FAM57B c ; f ; | | | |
| _03 | int3:chr6:18012525..18106914 | 0 | 0 | 8 |
| 226 | ALDOA a | | | |
| _03 | int3:chr6:18012525..18106914 | 0 | 0 | 8 |
| 5531 | PPP4C p | | | |
| _03 | int3:chr6:18012525..18106914 | 0 | 0 | 8 |
| 6911 | TBX6 T | | | |
| _03 | int3:chr6:18012525..18106914 | 0 | 0 | 8 |
| 83719 | YPEL3 y | | | |
| _03 | int5:chr7:16160915..16235033 | 0 | 0 | 2 |
| 80896 | NPL N | | | |
| _03 | int5:chr7:16160915..16235033 | 0 | 0 | 2 |
| 1660 | DHX9 D | | | |
| _03 | int6:chr7:17747493..17832876 | 0 | 0 | 1 |
| 81563 | C1orf21 c | | | |
| _03 | int7:chr7:19633367..19714459 | 0 | 0 | 1 |
| 5743 | PTGS2 p | | | |
| _03 | int8:chr7:22714810..22804810 | 0 | 0 | 2 |
| 460,574441 | ASTN1,MIR488 a ; m ; | | | |
| _03 | int8:chr7:22714810..22804810 | 0 | 0 | 2 |
| 60676 | PAPPA2 p | | | |
| _03 | int9:chr8:16013494..16106285 | 0 | 0 | 2 |
| 145282 | MIPOL1 m | | | |
| _03 | int9:chr8:16013494..16106285 | 0 | 0 | 2 |
| 3169 | FOXA1 f | | | |
| _03 | int10:chr8:63223904..63813192 | 0 | 0 | 11 |
| 57718 | PPP4R4 p | | | |
| _03 | int10:chr8:63223904..63813192 | 0 | 0 | 11 |
| 866 | SERPINA6 s | | | |
| _03 | int10:chr8:63223904..63813192 | 0 | 0 | 11 |
| 390502 | SERPINA2 s | | | |
| _03 | int10:chr8:63223904..63813192 | 0 | 0 | 11 |
| 5265 | SERPINA1 s | | | |
| _03 | int10:chr8:63223904..63813192 | 0 | 0 | 11 |
| 256394 | SERPINA11 s | | | |
| _03 | int10:chr8:63223904..63813192 | 0 | 0 | 11 |
| 327657 | SERPINA9 s | | | |
| _03 | int10:chr8:63223904..63813192 | 0 | 0 | 11 |
| 145264 | SERPINA12 s | | | |
| _03 | int10:chr8:63223904..63813192 | 0 | 0 | 11 |
| 5267 | SERPINA4 s | | | |
| _03 | int10:chr8:63223904..63813192 | 0 | 0 | 11 |

| | | | | | |
|--------|--------------------------------|---|---|---|----|
| 5104 | SERPINA5 | s | | | |
| _03 | int10:chr8:63223904..63813192 | | 0 | 0 | 11 |
| 12 | SERPINA3 | s | | | |
| _03 | int10:chr8:63223904..63813192 | | 0 | 0 | 11 |
| 145258 | GSC | g | | | |
| _03 | int11:chr10:69076487..69161721 | | 0 | 0 | 2 |
| 119 | ADD2 | a | | | |
| _03 | int11:chr10:69076487..69161721 | | 0 | 0 | 2 |
| 344018 | FIGLA | f | | | |
| _03 | int12:chr14:42191677..42265654 | | 0 | 0 | 1 |
| 1124 | CHN2 | c | | | |
| _03 | int13:chr16:45965023..46373321 | | 0 | 0 | 2 |
| 3660 | IRF2 | i | | | |
| _03 | int13:chr16:45965023..46373321 | | 0 | 0 | 2 |
| 133121 | ENPP6 | e | | | |
| _03 | int14:chr21:45925954..46020103 | | 0 | 0 | 1 |
| 338645 | LUZP2 | l | | | |
| _03 | int16:chrX:24666408..24763994 | | 0 | 0 | 1 |
| 6304 | SATB1 | S | | | |
| _03 | int18:chrX:48440818..48536955 | | 0 | 0 | 2 |
| 170506 | DHX36 | D | | | |
| _03 | int18:chrX:48440818..48536955 | | 0 | 0 | 2 |
| 344758 | GPR149 | G | | | |
| _03 | int19:chrY:41275569..41346277 | | 0 | 0 | 1 |
| 140689 | CBLN4 | c | | | |
| _03 | int20:chrM:7119859..7845353 | | 0 | 0 | 13 |
| 56616 | DIABLO | d | | | |
| _03 | int20:chrM:7119859..7845353 | | 0 | 0 | 13 |
| 79369 | B3GNT4 | U | | | |
| _03 | int20:chrM:7119859..7845353 | | 0 | 0 | 13 |
| 386653 | IL31 | i | | | |
| _03 | int20:chrM:7119859..7845353 | | 0 | 0 | 13 |
| 652963 | BTF3P12 | b | | | |
| _03 | int20:chrM:7119859..7845353 | | 0 | 0 | 13 |
| 605 | BCL7A | B | | | |
| _03 | int20:chrM:7119859..7845353 | | 0 | 0 | 13 |
| 144406 | WDR66 | W | | | |
| _03 | int20:chrM:7119859..7845353 | | 0 | 0 | 13 |
| 23067 | SETD1B | S | | | |
| _03 | int20:chrM:7119859..7845353 | | 0 | 0 | 13 |
| 338799 | LOC338799 | h | | | |
| _03 | int20:chrM:7119859..7845353 | | 0 | 0 | 13 |
| 54509 | RHOF | r | | | |
| _03 | int20:chrM:7119859..7845353 | | 0 | 0 | 13 |
| 84876 | ORAI1 | O | | | |
| _03 | int20:chrM:7119859..7845353 | | 0 | 0 | 13 |
| 84678 | KDM2B | l | | | |
| _03 | int20:chrM:7119859..7845353 | | 0 | 0 | 13 |
| 80196 | RNF34 | r | | | |
| _03 | int20:chrM:7119859..7845353 | | 0 | 0 | 13 |
| 51433 | ANAPC5 | a | | | |