

Dataset S1

1. Genes coupled more strongly in non-cancer cells, $\Delta C > 1$

P-value cutoff 0.01

Calculate FDR Yes

Gene list Uploaded file

Largest_Magnitude_Changes_1.00_871.dat_SwissProt.dat

Annotation file gene_association.goa_human

Evidence codes included IEA IEP IGI NAS IPI ND IC ISS NR RCA IDA IMP
TAS

Unknown identifiers A2RUA0 A1L0W6 A1Z2N6 Q08E86 A2VCQ7 Q53H32
A1A584 Q53HV3 Q6IBU4 O60343 A2RRQ6 Q4LE41 Q1ZYL6 A2N6W9 O14597
A0FIK7 O43862 Q9P0N2 A2RTX1 O95410 Q5D035 A1L3U1 A1ECK7 Q7Z675
O75591 Q0VD99 O14853 A2SX35 A0N0L5 Q05B41 Q4F970 A1L4G9 Q8TBA2
Q8TBA2 Q05BW1 A0PJI2 Q14543 Q68DG7 O60574 A1L4G7 O14598 A1L4C4
A1L4J4 O95616 A1L4G3 A0JNS4 Q5UBZ1 P78517 Q9BYH2 Q3KQX9 A0JNV7
Q05KQ8 A1Z2L5 P24557 Q59F66 A2TKE3 Q08AL8 A1A510 Q6NTC6 O00547
Q59F66 A0A4Z1 Q2HXV1 Q53XS7 Q05DF0 A1YLA1 Q05BS8 Q3ZCT3 Q6IPL3
A2RU94 Q7LBY6 Q9P0F3 O95173 Q8N854 Q9BUN9 Q70LR4 P43363 A2RU15
O43397 A0SEH4 O15398 Q05B41 Q68DB0 A0N6Y5 A2VCQ7 Q05DF0 Q641Q2
A1L3Y0 Q6P525 O00547 O00547 Q59EN4 O00197 A0JNS4 A0PJF7 A2VCQ7
A1Z2M9 A1L3Y0 A0N5G7 Q96GX2 A2RU15 Q0VF46 Q7Z4L4 Q05BT4 Q49AE1
Q7Z637 Q6IB39 Q56VN4 O60283 Q05BP9 A2IXV4 O60460 O60460 A1L4G7
A2RTX1 Q2M1Z1 Q2TAN6 Q6ICC2 A2RUJ5 O95192 Q6PJ28 A2RUB8 A2RU77
Q7Z377 O75090 Q5D035 A2NVQ1 A2RTX1 A2NUT2 Q14CB2 A0A5C9 Q9P0F3
A1L199 Q5BQ95 Q53Y35 Q05DN2 Q1WWL6 Q6FIG5 Q6NSL4 Q9NRX3
Q6MZY9 Q4KN17 Q14BN2 Q68DG0 Q9H2Y3 Q9H6Q0 Q7Z377 Q68CK3
Q6ZMX3 Q8IYD2 Q6FIF5 Q96NS8 Q5CZ74 Q6ZSP3 Q6ZSP3 Q307T1 A2RU68
Q1ZYL9 Q5U3C1 Q68A20 Q32N04 Q9P007 Q8WUT8 Q59FS2 Q0VD81 Q6P9E1
Q53EW6 Q8NI58 Q6TDC3 Q08AI8 Q6N028 Q4KN31 Q53YU7 Q4KRP5 Q6GU65
Q29S24 Q9H8W2 Q9H5L9 Q4QQJ1 A4QMZ8 Q49AL9 Q8NC49 Q5JV25 Q05D99
Q52LY3 Q2PAD7 Q4KRP5 Q2PAD7 Q8WWA4 Q9H051 Q3B861 Q9H095
Q86YN7 Q32MC3 Q2M3R2 Q9BXY1 A0JLT4 Q9H7C9 Q68D78 Q6PJF8 A0JNV9
Q56VN4 Q9H6V9 O00446 Q05C44 Q8N9I4 Q14DU8 O95276 Q53ZZ2 Q53ZZ2
Q86Z03 Q5CZ74 Q59F90

Terms from the process ontology with p-value ≤ 0.01 .

The total number of genes used to calculate the background distribution of GO terms is 38594.

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GOID GO:0032501

TERM multicellular organismal process

P-VALUE 6.2823387785981e-27

CORRECTED P-VALUE 8.18588742851332e-24

NUM_ANNOTATIONS 200 (of 4721)

ANNOTATED_GENES P78562, Q9Y508, Q9Y6N9, P09758, P23409, Q02962, P46098, O15079, P01258, P55011, P10916, P05107, Q14641, P68133, Q8TDN2, P02144, P12882, P02585, P25063, Q9NZG7, P02818, P21815, P43005, Q16568, Q9Y576, P53674, P06753, P28908, P22607, P20929, P13805, P47901, O60907, P43699, Q96A32, P49418, P30556, P30542, Q13153, O15513, P52564, Q567P6, Q6W4X9, P63316, P01732, P08590, A0JLR9, O14958, P48788, P05067, P12821, O60663, P10645, P56706, Q16671, O96001, Q9UHC6, P08631, P20800, P45378, Q9NP98, O15273, P37058, O75829, Q00872, Q08289, Q13467, Q13642, P23297, P00790, Q8TBJ5, Q16623, P17661, P60953, P51843, O94907, O60938, P29762, P04626, P30273, Q15761, Q10588, P33121, Q9UHP9, P50553, P43080, P21579, O75444, P48307, Q15303, P68032, P23760, P54762, O00590, Q9NP62, P05976, Q9UKW6, Q8NFY4, P52179, Q13835, P18428, P35548, Q6UWB1, O75508, P14138, P13942, Q9Y6X6, P22303, Q12951, O60882, P11686, P25105, O00526, Q9UGM1, Q16352, O60603, P50461, P31645, O43320, P02686, P47989, P12259, Q02577, Q9Y691, P31025, Q5T4W7, P29973, P16871, P01009, P02679, P01127, P11684, P08842, P41161, O96014, Q13326, P16520, O75923, P35243, P05111, P78363, Q16517, O94933, P32004, P30990, A1E959, Q05315, P53673, P01286, Q99801, P08034, O43315, P18075, Q9BYG5, P12272, P35240, Q96L96, P40205, P21730, Q13705, P17540, Q13424, P08151, P15692, P26678, P54845, O14931, P20702, P56178, O15492, P51114, P06729, O75366, P30874, O14786, P19237, Q14254, Q9BS40, Q13402, O75474, P51692, O75593, P61278, P11487, P08620, Q13117, Q9H3D4, P14091, P49407, P20142, Q9UBF9, O75534, O95497, P32245, O43248, O15296, P43694, P35680, P49757, O60662

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GOID GO:0032502

TERM developmental process

P-VALUE 4.76784140002821e-16

CORRECTED P-VALUE 6.21249734423675e-13

NUM_ANNOTATIONS 163 (of 4393)

ANNOTATED_GENES P78562, Q9Y508, Q13387, P23409, Q02962, P35609, P01258, P10916, P27216, P05107, Q14641, P68133, P02144, P25063, Q9NZG7, P02818, P24855, P21815, Q16568, Q9Y576, P06748, P28908, P22607, P20929, P43699, Q96A32, O43557, P30556, P30542, Q13153, O14613, O15513, Q9UKI2, P63316, P01732, P08590, O14958, P05067, P12821, O60663, P25025, P56706, Q16671, O96001, P29466, P25445, O95470, P08631, Q13087, Q9NP98, Q14457, O15273, P37058, O75829, Q08289, Q13642, Q13467, Q9NS25, Q8TBJ5, P60953, O94907, P20333, P51843, P29762, P04626, P30273, O43272, Q10588, P50553, O75444, Q15303, P68032, P23760, P54762, O00590, Q9NP62, P05976, Q9UKW6, Q8NFI4, Q13835, P35548, Q6UWB1, O75508, P14138, P13942, Q9Y6X6, P14784, P22303, Q12951, O60882, O00526, Q9UGM1, Q16352, O60603, P50461, Q9UGM3, O96028, O43320, P02686, O15020, P47989, Q02577, Q9H2J4, Q5T4W7, P16871, P01127, P11684, P08842, P41161, O96014, Q13326, P00709, P05111, Q16517, O94933, P32004, A1E959, Q05315, P01286, P08034, Q99801, O75414, P18075, Q9BYG5, P12272, O95243, P35240, P62753, Q96L96, P40205, Q13705, P08151, Q13424, P15692, Q9H832, P54845, P26678, P20702, O14931, P56178, P51114, P06729, O75366, Q14254, O14786, Q99698, Q13402, O75474, O60383, O75593, P51692, P61278, P11487, P08620, Q13117, Q9H3D4, O75534, O95497, O43248, O15296, P43694, P35680, P49757

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GOID GO:0048856

TERM anatomical structure development

P-VALUE 7.02437406354466e-16

CORRECTED P-VALUE 9.15275940479869e-13

NUM_ANNOTATIONS 120 (of 2822)

ANNOTATED_GENES P78562, P35548, Q6UWB1, O75508, P23409, Q02962, P35609, P14138, P13942, Q9Y6X6, Q12951, P22303, O60882, P10916, O00526, Q9UGM1, P05107, P68133, P02144, Q16352, P50461, O96028, Q9UGM3, O43320, P25063, Q9NZG7, P02818, P02686, P47989, P21815, Q16568, Q02577, Q9Y576, Q5T4W7, P22607, P20929, P16871, P43699, Q96A32, P01127, P08842, P41161, Q13326, O96014, P30556, P30542, Q13153, P05111, O14613, Q16517, O94933, Q9UKI2, P63316, P08590, P01732, O14958, P32004, A1E959, P12821, P01286, Q99801, P08034, O60663, P18075, Q9BYG5, P12272, P35240, P56706, Q96L96, Q16671, Q13705, O96001, Q13424, P08151, P15692, P26678, P54845, P08631, P20702, P56178, Q9NP98, O15273, O75829, P37058, Q08289, Q13642, Q13467, P51114, Q8TBJ5, P06729, O75366, O14786, Q14254, P60953, O94907, P51843, Q13402, O60383, P04626, P51692, O75593, P11487, P08620, P50553, O75534, O75444, O95497, P68032, Q15303, P23760, O43248, P54762, Q9NP62, O15296, P43694, P49757, P35680, P05976, Q9UKW6, Q8NFI4

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GOID GO:0009605

TERM response to external stimulus

P-VALUE 3.57277782543774e-15

CORRECTED P-VALUE 4.65532950654538e-12

NUM_ANNOTATIONS 59 (of 929)

ANNOTATED_GENES P18428, P25025, P27918, P14138, P22303, P55011, P49238, P02775, P32246, P21730, P13501, P25105, Q9UGM1, P05107, P15692, P47992, O60603, P46092, O14931, P20800, P08910, P25063, Q14457, Q9NZG7, O15273, Q16568, P12259, P30874, Q5T4W7, Q99698, Q9BS40, Q15166, P01009, P04626, Q08334, P02679, P51692, P01127, P61278, P30273, P28039, O75923, Q16719, P43080, P30542, P30556, P06702, O95497, P35243, P18564, P05111, P78363, P48307, O00590, P43694, A0JLR9, P02763, P21462, P01286

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GOID GO:0006936

TERM muscle contraction

P-VALUE 3.93099370833758e-15

CORRECTED P-VALUE 5.12208480196386e-12

NUM_ANNOTATIONS 27 (of 200)

ANNOTATED_GENES P19237, P17661, P06753, P14138, P13805, P10916, P17540, Q9UHP9, O75923, Q13424, Q9UBF9, P68133, P20800, P02585, P12882, Q567P6, P45378, P52564, P63316, P08590, O15273, P48788, O14958, Q00872, P05976, O60662, P52179

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GOID GO:0048731

TERM system development

P-VALUE 8.29503068694918e-15

CORRECTED P-VALUE 1.08084249850948e-11

NUM_ANNOTATIONS 108 (of 2497)

ANNOTATED_GENES P78562, P35548, Q6UWB1, O75508, P23409, Q02962, P14138, P13942, Q9Y6X6, Q12951, P22303, O60882, P10916, Q9UGM1, P05107, P68133, P02144, Q16352, P50461, O43320, P25063, Q9NZG7, P02818, P02686, P21815, Q16568, Q02577, Q9Y576, Q5T4W7, P22607, P20929, P16871, P43699, Q96A32, P08842, P41161, Q13326, P30556, P30542, Q13153, P05111, Q16517, O94933, P63316, P08590, P01732, O14958, P32004, A1E959, P12821, P01286, Q99801, P08034, O60663, P18075, Q9BYG5, P12272, P35240, P56706, Q96L96, Q13705, O96001, Q13424, P08151, P15692, P26678, P54845, P08631, P20702,

P56178, Q9NP98, O15273, O75829, P37058, Q08289, Q13642, P51114, Q8TBJ5, P06729, O75366, O14786, Q14254, P60953, O94907, P51843, Q13402, P04626, P51692, O75593, P11487, P08620, P50553, O75534, O95497, O75444, P68032, Q15303, P23760, O43248, P54762, Q9NP62, O15296, P43694, P35680, P49757, P05976, Q9UKW6, Q8NFY4

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GOID GO:0003012

TERM muscle system process

P-VALUE 1.18776179886715e-14

CORRECTED P-VALUE 1.5476536239239e-11

NUM_ANNOTATIONS 27 (of 209)

ANNOTATED_GENES P19237, P17661, P06753, P14138, P13805, P10916, P17540, Q9UHP9, O75923, Q13424, Q9UBF9, P68133, P20800, P02585, P12882, Q567P6, P45378, P52564, P63316, P08590, O15273, P48788, O14958, Q00872, P05976, O60662, P52179

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GOID GO:0006941

TERM striated muscle contraction

P-VALUE 2.30887690325679e-14

CORRECTED P-VALUE 3.0084666049436e-11

NUM_ANNOTATIONS 17 (of 70)

ANNOTATED_GENES P19237, P13805, P10916, Q9UHP9, P02585, P12882, Q567P6, P45378, P52564, P08590, P63316, O15273, P48788, O14958, Q00872, O60662, P52179

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GOID GO:0003008

TERM system process

P-VALUE 2.78973817691129e-14

CORRECTED P-VALUE 3.63502884451541e-11

NUM_ANNOTATIONS 83 (of 1701)

ANNOTATED_GENES Q9Y6N9, P09758, O75508, Q02962, P46098, P14138, P13942, O15079, P22303, P55011, P10916, Q9UGM1, P68133, Q8TDN2, P50461, P12882, P02585, P31645, P25063, P02686, P43005, Q16568, Q9Y691, P31025, P53674, P06753, P22607, P29973, P13805, P47901, O60907, P49418, P16520, O75923, P30556, P35243, P78363, Q567P6, P52564, Q6W4X9, P63316, P08590, O14958, P48788, P30990, P53673, P05067, P12821, O43315, P10645, P35240, P21730, P17540, Q13424, Q9UHC6, P26678, P54845, P20800, O14931, P45378,

O15273, O15492, Q00872, P23297, Q16623, P19237, P17661, O60938, Q9BS40, Q13402, P04626, P61278, Q15761, P49407, Q9UHP9, P43080, Q9UBF9, P21579, P68032, P23760, P05976, O60662, P52179

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GOID GO:0048513

TERM organ development

P-VALUE 2.89591331620209e-14

CORRECTED P-VALUE 3.77337505101132e-11

NUM_ANNOTATIONS 87 (of 1832)

ANNOTATED_GENES P35548, P23409, Q02962, P13942, Q9Y6X6, Q12951, P22303, O60882, P10916, Q9UGM1, P05107, P68133, P02144, P50461, O43320, P25063, Q9NZG7, P02818, Q16568, Q9Y576, P20929, P16871, P43699, Q96A32, P08842, P41161, Q13326, P30556, Q13153, P05111, Q16517, P63316, P08590, P01732, O14958, A1E959, P12821, P01286, Q99801, O60663, P18075, P12272, P56706, Q96L96, Q13705, Q13424, P08151, P15692, P26678, P54845, P08631, P20702, P56178, Q9NP98, O15273, O75829, P37058, Q08289, Q13642, P51114, Q8TBJ5, P06729, Q14254, O14786, P60953, O94907, P51843, Q13402, P04626, P51692, O75593, P11487, P08620, P50553, O75534, O95497, O75444, P68032, Q15303, P23760, O43248, O15296, P43694, P35680, P49757, P05976, Q9UKW6

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GOID GO:0007275

TERM multicellular organismal development

P-VALUE 3.95814854225984e-14

CORRECTED P-VALUE 5.15746755056457e-11

NUM_ANNOTATIONS 126 (of 3206)

ANNOTATED_GENES P78562, Q13835, Q9Y508, P35548, Q6UWB1, O75508, P23409, Q02962, P14138, P13942, Q9Y6X6, P01258, Q12951, P22303, O60882, P10916, O00526, Q9UGM1, P05107, Q14641, P68133, P02144, Q16352, P50461, O43320, P25063, Q9NZG7, P02818, P02686, P21815, Q16568, Q02577, Q9Y576, Q5T4W7, P22607, P20929, P16871, P43699, Q96A32, P11684, P08842, P41161, Q13326, O96014, P30556, P30542, Q13153, P05111, Q16517, O15513, O94933, P63316, P01732, P08590, O14958, P32004, A1E959, Q05315, P12821, P01286, Q99801, P08034, O60663, P18075, Q9BYG5, P12272, P35240, P56706, Q96L96, P40205, Q16671, Q13705, O96001, Q13424, P08151, P15692, P08631, P26678, P54845, P20702, P56178, Q9NP98, O15273, O75829, P37058, Q08289, Q13642, Q13467, P51114, Q8TBJ5, P06729, O75366, O14786, Q14254, P60953, O94907, P51843, Q13402, O75474, P29762, P04626, P51692, O75593, P11487, Q13117, P08620, Q10588, Q9H3D4, P50553, O75534, O75444, O95497, P68032, Q15303,

P23760, O43248, P54762, Q9NP62, O15296, O00590, P43694, P49757, P35680, P05976, Q9UKW6, Q8NFY4

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GOID GO:0007267

TERM cell-cell signaling

P-VALUE 1.99587825638404e-11

CORRECTED P-VALUE 2.60062936806841e-08

NUM_ANNOTATIONS 46 (of 758)

ANNOTATED_GENES P78562, O75508, P46098, P14138, P12272, O15079, P22303, P56706, P32246, P13501, P51460, P08151, P05107, Q14641, P47992, Q9UHC6, O14931, P31645, O43320, P43490, P25063, P02686, P43005, Q92754, P20138, Q16568, Q16623, Q9Y691, P30874, O14786, P04626, P61278, P49418, P11487, P08620, Q15761, P00709, P30542, P21579, P06702, P32245, P05111, O43248, P43694, P01286, P08034

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GOID GO:0065008

TERM regulation of biological quality

P-VALUE 4.41413405150891e-11

CORRECTED P-VALUE 5.75161666911612e-08

NUM_ANNOTATIONS 76 (of 1720)

ANNOTATED_GENES Q96C11, Q9Y6N9, O75508, P14138, O15079, P01258, P22303, P55011, P32246, P11686, P10916, P32320, P13501, P05107, P02144, P50461, P31645, P25063, P02818, P02686, O15020, P47989, Q16568, P12259, Q9Y691, P22607, P20929, P47901, P16871, P01009, P02679, P01127, O43557, P50150, P11217, P16520, P30556, P05111, P78363, O14613, Q9UKI2, Q6W4X9, P63316, P08590, A0JLR9, P21802, P30990, P05067, P12821, P01286, O43315, P12272, P10645, P62753, P21730, P15692, P47992, P06133, P26678, P46092, Q13087, P20800, Q8NBQ5, Q13642, O75366, Q16623, O60383, P04626, P51692, P30273, P08620, Q9H3D4, Q14849, P21579, P32245, P48307

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GOID GO:0007154

TERM cell communication

P-VALUE 7.66668657636162e-11

CORRECTED P-VALUE 9.98969260899919e-08

NUM_ANNOTATIONS 190 (of 6205)

ANNOTATED_GENES P78562, P23497, Q14161, P09758, Q13387, P46098, O15079, P01258, P55011, P32246, P32320, P05107, Q14641, P25063, O75689,

P43005, Q16568, P20138, Q6DN90, Q9Y576, Q13304, P06748, P28908, P22607, O15117, Q6ZMJ9, P47901, P09681, O60907, Q15759, P49418, O43557, P30556, P30542, Q13153, Q92737, Q9UKI2, P52564, O94810, Q14449, P01732, A0JLR9, P08173, P05067, P21462, O15552, P25025, Q9UKJ1, P56706, P42336, Q16671, O96001, P51460, O00561, P29466, P47992, P25445, Q15172, Q9UHC6, P20800, Q13087, O00602, Q14457, O75829, Q8NC01, Q13467, P23297, P23443, O00635, Q92754, Q16623, P60953, Q13576, Q9UMR7, P51843, O94907, P29762, P04626, P30273, Q86WV1, O60726, Q15761, P50553, P43080, Q8N6C8, P21579, P06702, O00327, Q15303, O75901, P54762, O00590, Q14CE0, P52757, Q13835, P18428, Q14314, P35548, Q6UWB1, O75508, P48551, P14138, Q12860, P14784, P22303, Q14451, P04808, P13501, P25105, P26010, Q15111, Q13136, O60603, P31645, O43320, O75022, P02686, Q9NP99, O75343, Q9Y691, Q5T4W7, Q15418, P18031, P16871, P02679, P01127, Q05C50, P11684, P50150, O96014, P00709, P16520, P35243, P49685, P05111, P78356, P21554, P30990, P01286, P08034, P35219, P18075, P12272, O95243, O43914, Q17R89, P35240, P62753, P49238, Q7Z4W6, P11215, P21730, Q15208, Q13705, O95158, P08151, P15692, P46092, Q12918, Q13554, O14684, P20702, O14931, P43490, O15492, O00212, P06729, O95672, P30874, O14786, Q15120, Q6PK25, P11717, O75474, O60383, P13164, Q08334, P51692, O75593, P61278, P11487, P08620, Q9H3D4, P49407, P18564, P32245, O43248, Q9BZW8, P43694, P78348

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GOID GO:0006952

TERM defense response

P-VALUE 1.06414590052671e-10

CORRECTED P-VALUE 1.3865821083863e-07

NUM_ANNOTATIONS 43 (of 712)

ANNOTATED_GENES P18428, P23497, Q6UWB1, P25025, P27918, O43914, Q01523, P20592, P49238, P02775, P32246, P21730, P13501, P25105, P05107, O60603, O14931, Q9UGM3, O75022, P25063, Q14457, Q8NC01, O00160, Q13137, Q99698, Q9NP55, P01009, Q08334, P51692, P30273, P41218, P28039, P00709, Q16719, P30542, P30556, Q8N6C8, O95497, P06702, P18564, Q13488, P19878, P02763

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GOID GO:0051239

TERM ®ulation of multicellular organismal process

P-VALUE 2.51334972413709e-10

CORRECTED P-VALUE 3.27489469055063e-07

NUM_ANNOTATIONS 43 (of 732)

ANNOTATED_GENES P18428, Q6UWB1, P18075, P14138, P12272, P01258, P22303, P56706, Q13705, P08151, P05107, O60603, P26678, P50461, O14931, P20800, P56178, P25063, O75829, P23297, P06729, Q16568, Q16623, Q9Y576, P17661, O14786, P28908, P13805, P16871, P04626, P51692, P01127, P30273, P30556, P50553, O95497, P32245, P05111, P08590, P43694, P63316, P12821, P01286

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GOID GO:0051239 & multicellular organismal process

TERM regulation of multicellular organismal process

P-VALUE 2.51334972413709e-10

CORRECTED P-VALUE 3.27489469055063e-07

NUM_ANNOTATIONS 43 (of 732)

ANNOTATED_GENES P18428, Q6UWB1, P18075, P14138, P12272, P01258, P22303, P56706, Q13705, P08151, P05107, O60603, P26678, P50461, O14931, P20800, P56178, P25063, O75829, P23297, P06729, Q16568, Q16623, Q9Y576, P17661, O14786, P28908, P13805, P16871, P04626, P51692, P01127, P30273, P30556, P50553, O95497, P32245, P05111, P08590, P43694, P63316, P12821, P01286

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GOID GO:0006935

TERM chemotaxis

P-VALUE 4.5721868808674e-10

CORRECTED P-VALUE 5.95755950577023e-07

NUM_ANNOTATIONS 20 (of 179)

ANNOTATED_GENES Q5T4W7, Q99698, P25025, P14138, P49238, P01127, P02775, P30273, P32246, P21730, P13501, P25105, P05107, P15692, P06702, P47992, P46092, P20800, O00590, P21462

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GOID GO:0042330

TERM taxis

P-VALUE 4.5721868808674e-10

CORRECTED P-VALUE 5.95755950577023e-07

NUM_ANNOTATIONS 20 (of 179)

ANNOTATED_GENES Q5T4W7, Q99698, P25025, P14138, P49238, P01127, P02775, P30273, P32246, P21730, P13501, P25105, P05107, P15692, P06702, P47992, P46092, P20800, O00590, P21462

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GOID GO:0050896

TERM response to stimulus

P-VALUE 9.68053032406941e-10

CORRECTED P-VALUE 1.26137310122624e-06

NUM_ANNOTATIONS 138 (of 4213)

ANNOTATED_GENES P31995, P23497, Q9Y6N9, P09758, P55011, P32246, P17066, P11678, P05107, Q8TDN2, P02144, P08910, P25063, Q9NZG7, Q16568, O00160, P06748, O15117, P47901, Q15759, P28039, O43557, P11217, Q16719, P30556, P30542, P52564, P01732, A0JLR9, P21462, Q14872, O75746, P25025, P27918, P49916, P02775, O96001, P47992, P25445, O00602, Q13087, P20800, Q14457, P09769, O15273, O15297, Q8NC01, Q8TBJ5, Q16623, Q9UMR7, P51843, O60938, Q15166, P04626, P30273, Q86WV1, Q10588, P43080, P21579, Q8N6C8, P06702, P48307, O00590, O43313, P18428, Q6UWB1, P48551, P14138, P20592, Q01523, P22303, O76096, P13501, Q15646, P25105, Q9UGM1, O60603, Q9UGM3, O43320, O75022, P02686, P23141, P47989, Q9NP99, P12259, Q02577, Q9Y691, P31025, Q13137, Q5T4W7, P29973, P16871, P01009, P02679, P01127, P00709, O75923, P35243, P78363, P05111, P56202, Q13488, P19878, P02763, P21554, P01286, P04435, O43315, O95243, O43914, P49238, P21730, P15692, P06133, P54845, P46092, O14931, O75366, P30874, Q99698, Q13402, Q9BS40, Q9NP55, P13164, Q08334, P51692, P41218, P61278, Q9H3D4, P49407, O75015, O95497, P18564, P32245, P43694, O15229, P78348, O75973

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GOID GO:0048518

TERM positive regulation of biological process

P-VALUE 2.68282597983596e-09

CORRECTED P-VALUE 3.49572225172626e-06

NUM_ANNOTATIONS 74 (of 1814)

ANNOTATED_GENES P18428, P23497, Q6UWB1, Q13387, P23409, Q02962, P14138, Q12951, P22303, P14784, P05107, O60603, P25063, Q16568, O00160, Q5T4W7, P28908, P16871, P43699, P01127, O43557, P41161, P00709, P30556, P30542, P05111, O14613, Q13488, P01732, P48788, P01286, Q14872, P25025, P27918, P18075, P12272, O95243, P35240, P62753, P56706, Q13705, P08151, P29466, P15692, P54845, P20800, O14931, P56178, P43490, Q14457, O00635, P06729, Q16623, O14786, P60953, Q99698, P04626, O75593, P51692, P30273, P61278, P08620, Q02930, O43272, Q12999, Q9H3D4, P50553, O95497, O75444, P32245, O00327, O15296, P43694, P35680

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GOID GO:0007155

TERM cell adhesion

P-VALUE 2.7669530296053e-09
CORRECTED P-VALUE 3.60533979757571e-06
NUM_ANNOTATIONS 53 (of 1103)
ANNOTATED_GENES Q13835, O43529, Q14242, P18075, O75508, P35609,
P13942, Q12860, P22303, P35240, P49238, P32246, P11215, P13501, P26010, P05107,
O95832, Q13136, Q9UHC6, P20702, Q8WXI7, P25063, Q9NZG7, P02818, P56856,
Q00872, P21815, Q4VB88, P20138, P06729, P12259, O00160, O14786, Q14254,
P56750, Q9UMR7, A0T3F4, P04626, P51692, P08620, P14151, Q13421, P78369,
O95497, P18564, P55289, O60245, P32004, Q13634, P05067, O95370, O75334,
Q14031

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GOID GO:0022610
TERM biological adhesion
P-VALUE 2.7669530296053e-09
CORRECTED P-VALUE 3.60533979757571e-06
NUM_ANNOTATIONS 53 (of 1103)
ANNOTATED_GENES Q13835, O43529, Q14242, P18075, O75508, P35609,
P13942, Q12860, P22303, P35240, P49238, P32246, P11215, P13501, P26010, P05107,
O95832, Q13136, Q9UHC6, P20702, Q8WXI7, P25063, Q9NZG7, P02818, P56856,
Q00872, P21815, Q4VB88, P20138, P06729, P12259, O00160, O14786, Q14254,
P56750, Q9UMR7, A0T3F4, P04626, P51692, P08620, P14151, Q13421, P78369,
O95497, P18564, P55289, O60245, P32004, Q13634, P05067, O95370, O75334,
Q14031

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GOID GO:0032103
TERM positive regulation of response to external stimulus
P-VALUE 2.82728715506479e-09
CORRECTED P-VALUE 3.68395516304942e-06
NUM_ANNOTATIONS 11 (of 50)
ANNOTATED_GENES P15692, P18428, Q5T4W7, P14138, P20800, P51692,
Q14457, P25063, P01127, P30273, P30556

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GOID GO:0007165
TERM signal transduction
P-VALUE 4.09022091649262e-09
CORRECTED P-VALUE 5.32955785418989e-06
NUM_ANNOTATIONS 171 (of 5693)

ANNOTATED_GENES P23497, Q14161, P09758, Q13387, P01258, P55011, P32246, P32320, P05107, Q14641, P25063, O75689, Q16568, P20138, Q6DN90, Q9Y576, Q13304, P06748, P28908, P22607, O15117, Q6ZMJ9, P47901, P09681, O60907, Q15759, O43557, P30556, P30542, Q13153, Q92737, Q9UKI2, P52564, O94810, Q14449, P01732, A0JLR9, P08173, P05067, P21462, O15552, P25025, Q9UKJ1, P56706, P42336, Q16671, O96001, O00561, P29466, P47992, P25445, Q15172, Q9UHC6, P20800, O00602, Q13087, O75829, Q8NC01, Q13467, P23297, P23443, O00635, P60953, Q13576, Q9UMR7, O94907, P51843, P29762, P04626, P30273, Q86WV1, O60726, Q15761, P50553, P43080, Q8N6C8, O00327, Q15303, O75901, P54762, O00590, Q14CE0, P52757, Q13835, Q14314, P35548, P18428, Q6UWB1, P48551, P14138, Q12860, P14784, Q14451, P13501, P04808, P25105, P26010, Q15111, Q13136, O60603, O43320, O75022, Q9NP99, O75343, Q5T4W7, Q15418, P18031, P16871, P02679, P01127, Q05C50, P11684, P50150, O96014, P00709, P16520, P35243, P49685, P05111, P78356, P21554, P30990, P01286, P35219, P18075, P12272, O95243, O43914, Q17R89, P35240, P49238, P62753, Q7Z4W6, P11215, P21730, Q15208, Q13705, O95158, P08151, P15692, P46092, Q12918, O14684, P20702, O14931, Q13554, P43490, O15492, O00212, P06729, O95672, P30874, O14786, Q15120, Q6PK25, P11717, O75474, O60383, P13164, Q08334, O75593, P51692, P61278, P11487, P08620, Q9H3D4, P49407, P18564, P32245, Q9BZW8, P78348

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GOID GO:0006950

TERM response to stress

P-VALUE 2.58418584067157e-08

CORRECTED P-VALUE 3.36719415039506e-05

NUM_ANNOTATIONS 74 (of 1916)

ANNOTATED_GENES P18428, P23497, Q6UWB1, Q01523, P20592, P22303, P55011, P32246, P17066, P13501, P11678, P25105, P05107, P02144, O60603, Q9UGM3, P08910, O75022, P25063, Q9NZG7, Q16568, P12259, O00160, Q13137, P06748, P47901, P01009, P02679, Q15759, P01127, P28039, P00709, P11217, O75923, Q16719, P30556, P30542, Q13488, P19878, P52564, A0JLR9, P02763, Q14872, O43315, P25025, P27918, O95243, O43914, P49916, P49238, P02775, P21730, P15692, Q13087, O14931, Q14457, O15273, Q8NC01, O75366, Q99698, P51843, Q9NP55, Q08334, P04626, P51692, P41218, P30273, Q8N6C8, O95497, P06702, P18564, P48307, O15229, O43313

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GOID GO:0008283

TERM cell proliferation

P-VALUE 2.96085496304181e-08
CORRECTED P-VALUE 3.85799401684348e-05
NUM_ANNOTATIONS 51 (of 1118)
ANNOTATED_GENES P35548, P25025, P18075, P09758, P14138, P12272, Q9Y6X6, P22303, P35240, P02775, P08151, P05107, P15692, Q14641, O14931, P20800, P56178, P43490, P25063, Q14457, O15297, P20138, P30874, O14786, Q5T4W7, P06748, P28908, O75474, P04626, P13164, P51692, P01127, P61278, P11487, P08620, O43557, Q12999, P30556, P50553, P05111, P56277, Q13488, Q15303, O15296, P05413, P49757, P08173, P12821, Q9UKW6, P01286, Q99801

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GOID GO:0048522

TERM positive regulation of cellular process

P-VALUE 3.11373310095716e-08
CORRECTED P-VALUE 4.05719423054717e-05

NUM_ANNOTATIONS 66 (of 1636)
ANNOTATED_GENES P18428, P23497, P23409, Q02962, P14138, Q12951, P05107, O60603, P25063, Q16568, O00160, P28908, P16871, P43699, P01127, O43557, P41161, P00709, P30542, P05111, O14613, Q13488, P01732, P48788, P01286, Q14872, P25025, P18075, P12272, O95243, P62753, P35240, P56706, Q13705, P08151, P29466, P15692, P54845, P20800, O14931, P56178, Q14457, P43490, P06729, O00635, Q16623, O14786, P60953, Q99698, P04626, O75593, P51692, P30273, P61278, P08620, Q02930, O43272, Q12999, Q9H3D4, P50553, O95497, O75444, O00327, O15296, P43694, P35680

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GOID GO:0048869

TERM cellular developmental process

P-VALUE 3.84272992585196e-08
CORRECTED P-VALUE 5.00707709338511e-05

NUM_ANNOTATIONS 74 (of 1935)
ANNOTATED_GENES Q9Y508, P23409, Q02962, P35609, P14138, P22303, P10916, P27216, O00526, P05107, P68133, P02144, Q16352, P50461, Q9UGM3, P25063, P02818, P47989, Q16568, Q02577, Q5T4W7, P16871, P43699, P01127, Q13153, P05111, O14613, O94933, Q9UKI2, P01732, P32004, P12821, O60663, P18075, P12272, Q9BYG5, P35240, P56706, Q13705, Q13424, P08151, P15692, P54845, P56178, Q9NP98, O15273, O75829, Q13642, Q13467, Q08289, P51114, Q9NS25, Q8TBJ5, P06729, O14786, P60953, P51843, Q13402, O60383, P04626, P51692, P08620, Q13117, P11487, P50553, O95497, O75444, Q15303, P68032, O43248, O15296, Q9NP62, P49757, Q8NFY4

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GOID GO:0030154

TERM cell differentiation

P-VALUE 3.84732716178245e-08

CORRECTED P-VALUE 5.01306729180254e-05

NUM_ANNOTATIONS 69 (of 1753)

ANNOTATED_GENES Q9Y508, P23409, Q02962, P14138, P22303, P10916, P27216, O00526, P68133, P02144, Q16352, P50461, Q9UGM3, P25063, P02818, P47989, Q16568, Q02577, Q5T4W7, P16871, P43699, Q13153, P05111, O94933, P01732, P32004, P12821, O60663, P18075, P12272, Q9BYG5, P35240, P56706, Q13705, Q13424, P08151, P15692, P54845, P56178, Q9NP98, O15273, O75829, Q13642, Q13467, Q08289, P51114, Q9NS25, Q8TBJ5, P06729, O14786, P60953, P51843, Q13402, O60383, P04626, P51692, P08620, Q13117, P11487, P50553, O95497, O75444, Q15303, P68032, O43248, O15296, Q9NP62, P49757, Q8NIFY4

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GOID GO:0042221

TERM response to chemical stimulus

P-VALUE 4.01527205398829e-08

CORRECTED P-VALUE 5.23189948634675e-05

NUM_ANNOTATIONS 45 (of 933)

ANNOTATED_GENES P18428, O75746, P23497, P25025, O43315, P14138, Q01523, P49238, P02775, P32246, P17066, P21730, P13501, P11678, P25105, P05107, P15692, P47992, P06133, O60603, P46092, P20800, P25063, P23141, P47989, Q9Y691, P30874, Q13137, Q5T4W7, Q99698, P02679, P51692, P01127, P61278, P30273, P11217, Q16719, P21579, O95497, P06702, P32245, O00590, P43694, P21462, Q14872

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GOID GO:0007626

TERM locomotory behavior

P-VALUE 4.26390596971644e-08

CORRECTED P-VALUE 5.55586947854052e-05

NUM_ANNOTATIONS 22 (of 279)

ANNOTATED_GENES Q5T4W7, Q99698, P25025, P14138, P49238, P01127, P02775, P30273, P32246, P21730, P13501, P25105, P05107, P15692, P47992, P06702, P46092, P20800, O00590, P21462, O75973, Q8TBJ5

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GOID GO:0040011

TERM locomotion

P-VALUE 5.57827939452472e-08

CORRECTED P-VALUE 7.26849805106571e-05

NUM_ANNOTATIONS 33 (of 576)

ANNOTATED_GENES Q14242, O60663, P25025, Q9BYG5, P14138, P35240, P49238, P02775, P32246, P21730, P13501, P25105, P05107, P15692, P47992, P46092, P20800, P08910, P25063, O14786, O00160, Q99698, Q5T4W7, P43699, P30273, P61278, P01127, P50553, P06702, O00590, O15296, P12821, P21462

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GOID GO:0009611

TERM response to wounding

P-VALUE 6.236443890774e-08

CORRECTED P-VALUE 8.12608638967852e-05

NUM_ANNOTATIONS 32 (of 550)

ANNOTATED_GENES P18428, P25025, P27918, P22303, P49238, P32246, P13501, P25105, P05107, O60603, O14931, P08910, P25063, Q9NZG7, P12259, P01009, Q08334, P04626, P51692, P02679, P30273, P01127, P28039, P30542, P30556, O75923, O95497, P06702, P18564, P48307, A0JLR9, P02763

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GOID GO:0051704

TERM multi-organism process

P-VALUE 7.21455682192472e-08

CORRECTED P-VALUE 9.4005675389679e-05

NUM_ANNOTATIONS 36 (of 671)

ANNOTATED_GENES P18428, Q6UWB1, P27918, Q9UKJ1, P12272, P48551, Q01523, P20592, P01258, P14784, P02775, P04808, P13501, P25105, Q96D42, O95832, Q14641, P04090, Q99645, P08631, O60603, Q9UGM3, P25063, Q14457, P09769, Q02577, O00160, Q9H2J4, Q99698, P51692, P30273, P11684, P08842, P00709, P18564, O60506

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GOID GO:0009653

TERM anatomical structure morphogenesis

P-VALUE 7.38824823248211e-08

CORRECTED P-VALUE 9.6268874469242e-05

NUM_ANNOTATIONS 60 (of 1461)

ANNOTATED_GENES P35548, P18075, Q02962, P35609, Q9BYG5, P12272, Q12951, O60882, P56706, Q16671, P10916, O00526, Q9UGM1, P08151, P05107, P15692, P54845, P20702, P56178, O96028, Q9UGM3, O43320, P25063, Q9NZG7, P02818, O15273, O75829, P47989, Q13642, Q13467, Q8TBJ5, O14786, Q5T4W7, P60953, O94907, Q13402, O60383, P04626, P51692, P43699, P01127, P11487, P08620, P41161, O96014, Q13153, O14613, P68032, P23760, O94933, O43248, Q9UKI2, Q9NP62, O15296, P63316, P43694, P08590, P49757, A1E959, Q99801

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GOID GO:0007166

TERM cell surface receptor linked signal transduction

P-VALUE 7.63435649215677e-08

CORRECTED P-VALUE 9.94756650928028e-05

NUM_ANNOTATIONS 94 (of 2731)

ANNOTATED_GENES P18428, P35548, P23497, Q6UWB1, Q14161, P09758, Q13387, P14138, P48551, Q12860, P01258, P14784, P55011, P32246, Q14451, P32320, P25105, P26010, P05107, O60603, O75022, P25063, O75689, Q16568, Q13304, P22607, P47901, P18031, P16871, P01127, Q05C50, P50150, O96014, P16520, P30556, P30542, Q13153, P05111, P49685, O94810, P78356, P01732, P21554, P08173, P05067, P21462, P01286, O15552, P25025, P18075, P12272, P49238, P56706, Q7Z4W6, P11215, P21730, Q16671, Q13705, O95158, P08151, P15692, P46092, Q12918, P20800, P20702, O15492, O75829, Q8NC01, Q13467, P06729, O95672, P30874, O14786, Q9UMR7, O94907, Q6PK25, O75474, O60383, P13164, P04626, P51692, O75593, P61278, P30273, O60726, Q15761, Q9H3D4, P50553, P18564, P32245, Q15303, P54762, Q14CE0, O00590

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GOID GO:0003013

TERM circulatory system process

P-VALUE 1.20818529105729e-07

CORRECTED P-VALUE 0.000157426543424765

NUM_ANNOTATIONS 20 (of 248)

ANNOTATED_GENES Q9Y691, P17661, P14138, P47901, P10645, P10916, P16520, P30556, P26678, P50461, P68032, P20800, P52564, P63316, P08590, O15273, P30990, P12821, P23297, Q16568

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GOID GO:0008015

TERM blood circulation

P-VALUE 1.20818529105729e-07

CORRECTED P-VALUE 0.000157426543424765
NUM_ANNOTATIONS 20 (of 248)
ANNOTATED_GENES Q9Y691, P17661, P14138, P47901, P10645, P10916,
P16520, P30556, P26678, P50461, P68032, P20800, P52564, P63316, P08590, O15273,
P30990, P12821, P23297, Q16568

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GOID GO:0003015

TERM heart process

P-VALUE 1.35671668350365e-07

CORRECTED P-VALUE 0.000176780183860525

NUM_ANNOTATIONS 12 (of 87)

ANNOTATED_GENES P17661, P14138, P50461, P26678, P20800, P68032,
P52564, P63316, P08590, O15273, P10916, P23297

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GOID GO:0060047

TERM heart contraction

P-VALUE 1.35671668350365e-07

CORRECTED P-VALUE 0.000176780183860525

NUM_ANNOTATIONS 12 (of 87)

ANNOTATED_GENES P17661, P14138, P50461, P26678, P20800, P68032,
P52564, P63316, P08590, O15273, P10916, P23297

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GOID GO:0032101

TERM ®ulation of response to external stimulus

P-VALUE 2.35046543400351e-07

CORRECTED P-VALUE 0.000306265646050657

NUM_ANNOTATIONS 13 (of 109)

ANNOTATED_GENES P15692, P18428, Q5T4W7, P14138, P20800, P51692,
Q14457, P25063, P01127, P30273, P28039, Q16568, P30556

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GOID GO:0032101 & response to external stimulus

TERM regulation of response to external stimulus

P-VALUE 2.35046543400351e-07

CORRECTED P-VALUE 0.000306265646050657

NUM_ANNOTATIONS 13 (of 109)

ANNOTATED_GENES P15692, P18428, Q5T4W7, P14138, P20800, P51692, Q14457, P25063, P01127, P30273, P28039, Q16568, P30556

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GOID GO:0006968

TERM cellular defense response

P-VALUE 2.44393346194417e-07

CORRECTED P-VALUE 0.000318444530091326

NUM_ANNOTATIONS 10 (of 60)

ANNOTATED_GENES P18428, P25025, Q13488, O43914, P19878, P49238, Q14457, P41218, P21730, P13501

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GOID GO:0007517

TERM muscle development

P-VALUE 4.73915826354301e-07

CORRECTED P-VALUE 0.000617512321739654

NUM_ANNOTATIONS 21 (of 295)

ANNOTATED_GENES P23409, P20929, P04626, P22303, Q96A32, P10916, Q13326, Q13424, P68133, Q13153, P26678, P50461, P68032, Q9NP98, P63316, P08590, O15273, Q08289, P05976, Q13642, P51114

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GOID GO:0003009

TERM skeletal muscle contraction

P-VALUE 6.61140570979378e-07

CORRECTED P-VALUE 0.00086146616398613

NUM_ANNOTATIONS 5 (of 10)

ANNOTATED_GENES O15273, P48788, P13805, P02585, P45378

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GOID GO:0050900

TERM leukocyte migration

P-VALUE 7.1068512780431e-07

CORRECTED P-VALUE 0.000926022721529015

NUM_ANNOTATIONS 10 (of 67)

ANNOTATED_GENES P15692, Q14242, P06702, Q99698, P25025, P14138, P20800, P25063, P30273, P05107

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GOID GO:0019932

TERM second-messenger-mediated signaling

P-VALUE 1.00553100837436e-06

CORRECTED P-VALUE 0.00131020690391179

NUM_ANNOTATIONS 21 (of 309)

ANNOTATED_GENES P35219, P30874, P25025, P14138, P12272, P47901, P01258, P04626, P32246, P42336, P21730, P25105, P30556, P32245, P20800, O14931, P01732, P25063, P21554, P21462, P01286

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GOID GO:0007610

TERM behavior

P-VALUE 1.07773008793791e-06

CORRECTED P-VALUE 0.0014042823045831

NUM_ANNOTATIONS 27 (of 476)

ANNOTATED_GENES Q02577, Q5T4W7, Q99698, P25025, P14138, P49238, P01127, P02775, P30273, P32246, P21730, P13501, P25105, O96001, P05107, P15692, P47992, P06702, P32245, P46092, P20800, O00590, P21554, P21462, O75973, Q8TBJ5, Q16568

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GOID GO:0050793 & developmental process

TERM regulation of developmental process

P-VALUE 1.1899261353152e-06

CORRECTED P-VALUE 0.0015504737543157

NUM_ANNOTATIONS 50 (of 1228)

ANNOTATED_GENES P35548, Q6UWB1, O75414, P18075, Q13387, Q02962, P35609, O95243, P12272, P14784, P62753, P56706, Q13705, P08151, P05107, P15692, P29466, P25445, O60603, O14931, P56178, P25063, Q14457, O75829, P06729, Q16568, O14786, Q99698, P06748, P60953, P51843, P28908, P16871, P04626, P51692, P61278, P30273, P08620, O43272, O43557, Q9H3D4, P00709, P50553, P30542, O95497, P05111, O14613, O15296, Q9UKI2, P43694

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GOID GO:0048519

TERM negative regulation of biological process

P-VALUE 1.21312657818924e-06

CORRECTED P-VALUE 0.00158070393138058

NUM_ANNOTATIONS 66 (of 1813)

ANNOTATED_GENES P18428, P35548, P23497, Q6UWB1, Q13387, P23409, Q02962, Q9Y6X6, P01258, P22303, P14784, P06280, P10916, P32320, P13501, Q969G3, Q9UGM3, P08910, P25063, O15020, Q16568, P20138, O00160, Q9Y576, P06748, P28908, P13805, P16871, P01127, P28039, P50150, P05111, O94810, P05413, Q99801, O75414, P18075, P12272, P35240, P15692, P25445, Q9Y6E7, P26678, O14931, Q14457, O15492, O43240, O15297, O75829, O75366, O14786, P30874, P60953, P51843, O94907, P13164, P04626, O60383, O75593, P51692, P30273, P61278, P08620, Q9H3D4, O95497, O15296

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GOID GO:0050793

TERM regulation of developmental process

P-VALUE 1.24620745372695e-06

CORRECTED P-VALUE 0.00162380831220622

NUM_ANNOTATIONS 50 (of 1230)

ANNOTATED_GENES P35548, Q6UWB1, O75414, P18075, Q13387, Q02962, P35609, O95243, P12272, P14784, P62753, P56706, Q13705, P08151, P05107, P15692, P29466, P25445, O60603, O14931, P56178, P25063, Q14457, O75829, P06729, Q16568, O14786, Q99698, P06748, P60953, P51843, P28908, P16871, P04626, P51692, P61278, P30273, P08620, O43272, O43557, Q9H3D4, P00709, P50553, P30542, O95497, P05111, O14613, O15296, Q9UKI2, P43694

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GOID GO:0009887

TERM organ morphogenesis

P-VALUE 1.26312191553304e-06

CORRECTED P-VALUE 0.00164584785593955

NUM_ANNOTATIONS 34 (of 693)

ANNOTATED_GENES P35548, P18075, Q02962, P12272, Q12951, O60882, P56706, P10916, Q9UGM1, P08151, P05107, P15692, P54845, P20702, P56178, O43320, O15273, P02818, O75829, Q13642, O14786, Q13402, P04626, P43699, P08620, P11487, P41161, P68032, O43248, P23760, P43694, P08590, P63316, A1E959

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GOID GO:0042592

TERM homeostatic process

P-VALUE 2.31774629787825e-06

CORRECTED P-VALUE 0.00302002342613535

NUM_ANNOTATIONS 40 (of 910)

ANNOTATED_GENES Q96C11, O43315, Q9Y6N9, O75508, P12272, P01258, P55011, P62753, P32246, P21730, P11686, P13501, P47992, P02144, P26678, P50461, P46092, Q13087, P20800, P25063, P02818, P02686, P47989, Q16568, Q9Y691, P16871, P47901, P04626, P51692, P30273, P08620, O43557, P11217, P30556, P32245, P78363, P05111, Q6W4X9, P05067, P01286

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GOID GO:0042127

TERM regulation of cell proliferation

P-VALUE 2.78977237586683e-06

CORRECTED P-VALUE 0.00363507340575449

NUM_ANNOTATIONS 35 (of 751)

ANNOTATED_GENES P35548, P25025, P18075, P14138, P12272, Q9Y6X6, P35240, P08151, P15692, O14931, P20800, P56178, P43490, P25063, Q14457, O15297, P20138, P30874, O14786, P06748, P28908, P13164, P04626, P51692, P61278, P01127, P08620, Q12999, P30556, P05111, Q13488, O15296, P05413, P01286, Q99801

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GOID GO:0051707

TERM response to other organism

P-VALUE 2.9301246066957e-06

CORRECTED P-VALUE 0.0038179523625245

NUM_ANNOTATIONS 18 (of 252)

ANNOTATED_GENES O00160, P18428, Q6UWB1, Q99698, P27918, P48551, Q01523, P20592, P02775, P30273, P00709, P13501, P25105, O60603, Q9UGM3, P09769, Q14457, P25063

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GOID GO:0006928

TERM cell motion

P-VALUE 3.05697709856747e-06

CORRECTED P-VALUE 0.00398324115943341

NUM_ANNOTATIONS 31 (of 626)

ANNOTATED_GENES O00160, O14786, Q14242, P23497, Q5T4W7, P06753, Q99698, O60663, P25025, P18075, Q9BYG5, P14138, P04626, P35240, P43699, P01127, P61278, P30273, P13501, P50553, P05107, P15692, P06702, O95497, P20800, O15296, P08910, P25063, P21462, P12821, Q8TBJ5

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GOID GO:0051674

TERM localization of cell

P-VALUE 3.05697709856747e-06

CORRECTED P-VALUE 0.00398324115943341

NUM_ANNOTATIONS 31 (of 626)

ANNOTATED_GENES O00160, O14786, Q14242, P23497, Q5T4W7, P06753, Q99698, O60663, P25025, P18075, Q9BYG5, P14138, P04626, P35240, P43699, P01127, P61278, P30273, P13501, P50553, P05107, P15692, P06702, O95497, P20800, O15296, P08910, P25063, P21462, P12821, Q8TBJ5

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GOID GO:0042127 & cell proliferation

TERM regulation of cell proliferation

P-VALUE 3.72955811502731e-06

CORRECTED P-VALUE 0.00485961422388059

NUM_ANNOTATIONS 33 (of 696)

ANNOTATED_GENES P35548, P25025, P18075, P14138, P12272, Q9Y6X6, P35240, P08151, P15692, O14931, P20800, P56178, P43490, P25063, Q14457, O15297, P20138, O14786, P30874, P06748, P28908, P13164, P04626, P51692, P61278, P01127, P08620, Q12999, Q13488, O15296, P05413, P01286, Q99801

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GOID GO:0030855

TERM epithelial cell differentiation

P-VALUE 3.75453499463008e-06

CORRECTED P-VALUE 0.00489215909800299

NUM_ANNOTATIONS 10 (of 80)

ANNOTATED_GENES P18075, Q02962, P12272, P56178, Q9UGM3, O15296, P51692, P25063, P47989, O00526

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GOID GO:0006874

TERM cellular calcium ion homeostasis

P-VALUE 3.87483356726183e-06

CORRECTED P-VALUE 0.00504890813814217

NUM_ANNOTATIONS 14 (of 161)

ANNOTATED_GENES P47992, P50461, P26678, P46092, P47901, P20800, P01258, P25063, P32246, P21730, P13501, P01286, P11217, P30556

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GOID GO:0012501

TERM programmed cell death

P-VALUE 4.42153434449934e-06

CORRECTED P-VALUE 0.00576125925088264

NUM_ANNOTATIONS 46 (of 1144)

ANNOTATED_GENES P35548, P25025, O75414, P18075, Q13387, Q02962, P35609, O95243, P14784, P62753, P05107, P15692, P29466, P25445, Q9H832, O95470, O60603, O14931, Q13087, P25063, Q14457, P51114, P24855, P06729, Q9H2J4, Q99698, P06748, P20333, P28908, P16871, P51692, P61278, P30273, P08620, O43272, O43557, Q9H3D4, P00709, P30542, O95497, Q13153, P05111, P68032, P23760, O15296, P05067

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GOID GO:0002376

TERM immune system process

P-VALUE 4.80583066738324e-06

CORRECTED P-VALUE 0.00626199735960037

NUM_ANNOTATIONS 63 (of 1775)

ANNOTATED_GENES P31995, P04435, P18428, Q14242, P23497, Q6UWB1, P25025, O43315, P27918, P14138, O76096, P02775, P32246, P21730, P13501, P25105, Q15646, P05107, P15692, P47992, P25445, P02144, O60603, O14931, P20800, O00602, Q9UGM3, O75022, P25063, P02818, P02686, Q9NP99, Q16568, P06729, O00160, Q13137, Q99698, P60953, Q9UMR7, O15117, Q9NP55, P16871, P04626, Q08334, P51692, P30273, Q86WV1, P11487, Q10588, O43557, P14091, Q16719, O75015, Q8N6C8, P06702, O95497, P05111, P56202, P19878, O00590, P01732, P02763, P12821

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GOID GO:0055074

TERM calcium ion homeostasis

P-VALUE 4.8074373758376e-06

CORRECTED P-VALUE 0.00626409090071639

NUM_ANNOTATIONS 14 (of 164)

ANNOTATED_GENES P47992, P50461, P26678, P46092, P47901, P20800, P01258, P25063, P32246, P21730, P13501, P01286, P11217, P30556

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GOID GO:0048584

TERM positive regulation of response to stimulus

P-VALUE 5.11470496675438e-06

CORRECTED P-VALUE 0.00666446057168096
NUM_ANNOTATIONS 15 (of 188)
ANNOTATED_GENES P15692, P18428, Q6UWB1, Q5T4W7, P27918, P14138,
O60603, O14931, P20800, P51692, Q14457, P25063, P01127, P30273, P30556

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GOID GO:0008219

TERM cell death

P-VALUE 7.53644107699816e-06

CORRECTED P-VALUE 0.00981998272332861

NUM_ANNOTATIONS 47 (of 1204)

ANNOTATED_GENES P35548, P25025, O75414, P18075, Q13387, Q02962,
P35609, O95243, P14784, P62753, P05107, P15692, P29466, P25445, Q9H832,
O95470, O60603, O14931, Q13087, P25063, Q14457, O15020, P51114, P24855,
P06729, Q9H2J4, Q99698, P06748, P20333, P28908, P16871, P51692, P61278,
P30273, P08620, O43272, O43557, Q9H3D4, P00709, P30542, O95497, Q13153,
P05111, P68032, P23760, O15296, P05067

2. Genes whose correlation vectors in cancer and non-cancer are least correlated, $\rho_{i(s1,s2)} < 0.2$

P-value cutoff 0.01

Calculate FDR Yes

Gene list Uploaded file Cor_Tail.dat_SwissProt.dat

Annotation file gene_association.goa_human

Evidence codes included IEA IEP IGI NAS IPI ND IC ISS NR RCA IDA IMP
TAS

Unknown identifiers A2N4P8 A2RRB9 Q9H095 Q6NXU1 Q13659 Q59GH2
Q6ZWH1 A2RRA7 Q05BM8 Q6IN92 A0PJW7 P04948 P03947 A0PJ71 P04948
Q68CU4 Q5JR59 A0PK90 Q05DM8 A1L174 Q8WY49 Q19CC6 Q71RF0 Q6PJQ7
O43466 Q68DZ4 Q05DM8 Q9P164 P03947 Q08E78 A1L3W4 Q5T1V4 Q6FHW4
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A0PJC9 A1L417 A1L417 Q6JIC5 A1L199 A0PJ82 Q5W9G7 Q05DH2 A0PK08
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A1JUI9 Q05CZ3 Q6ICC1 Q53EW6 Q96BX3 O75090 A0S0A6 Q12900 Q4ZG56
Q1KSF7 Q2YDX2 Q6ITU8 Q3B7W8 A1L1B7 P04948 Q6PID8 A2RRB5 A1L429

Q5YKG5 A2RRD1 Q53GU1 A1L3W4 Q8TC04 Q8TCE6 P04948 Q6ZR23 Q59F66
Q52LL3 Q05CY1 A2VCQ3 A1YLA1 O60498 A0N5G7 Q6P1K4 Q59EK2 Q6IA88
Q6ZSI7 Q68VJ4 Q5JPP0 P03947 Q68VI9 Q96JS4 Q8IXM0 Q59GU8 Q9H053
Q69YW5 Q9BSB4 P23630 Q6ZVZ4 Q0D2Q4 A1L389 Q504U0 A0JP19 Q5G0E1
Q58F28 A0AV58 Q4W8W0 A0A4R1 Q6PIX0 Q9NUU6 Q9BUE6 Q6I9Z7 Q5D0K4
Q4V9L5 O00547 A0A4R1 Q9P0N2 Q96I57 Q8TBU7 O94800 O00508 Q6ZSM6
A1L1B5 Q68DB7 Q6ZWB7 A0AVE2 O75785 A0PJH6 A2RRE2 Q58A70 Q6IBU4
Q8NDC0 Q49A36 Q59ED9 Q13732 A1A5C4 O94800 Q96MD3 A2N4P8 Q549M4
A0PJN8 O94800 A0AVH1 A1L4G9 A0A4R1 Q1XBE0 Q53F40 P23630 Q59HE8
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A0MWC9 Q9P0F3 Q6ZN02 A0A4Z1 Q53G98 A0JP04 Q4G137 A1A4H0 Q542Z6
Q6L9J5 A0T1T0 Q546Y9 Q6MZY9 Q569H2 Q5I0G1 Q05BS8 Q86V25 A2RU15
Q9BUN5 Q6UWK3 Q12900 Q5XKB6 A1L159 A2RU93 Q32Q70 Q0IIN7 Q566Q2
Q6ZP15 A1L3A9 Q9H871 O94945 A2RTX1 A2VCQ7 Q3BBW2 Q68CU5 A0A4R1
Q13067 Q2M3R2 Q59FY5 A2RRQ4 Q8IZW1 A0AVL2 Q5MY58 A1L429 Q8N3Z4
A2VCQ7 A2RRP1 Q12966 Q05CY1 O43862 A2VCN1 A2RUE5 Q5ZEZ6 O75059
Q4AEJ6 Q24JQ7 Q549N3 Q6FI91 Q05BX6 Q0IIN7 Q3BBW2 A2RU93 A0JLN5
Q6TDC3 Q9P007 A1L381 Q6MZY3 Q6NUK0 A2RU51 Q59HH1 Q0VG09 Q499Z9
Q68D71 Q9P164 A0PJN8 Q8N6T0 Q08AF4 A0PJN8 Q05C86 Q4VBP5 O95454
A2RU93 A0RZB6 A1L172 Q6ICC1 Q8NI58 Q96IY7 Q6ZWH1 Q6P5R1 Q5YLC1
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A4FTW3 Q8NDC0 Q08AK5 Q5MJQ4 Q6ZTC9 Q68A20 Q59GL6 Q53FL4 O15026
Q6ZRF1 Q53XI4 A0PJH3 Q7Z4L4 Q6IBT0 Q6P9E1 Q2HXV1 Q05D76 Q9HC03
Q8NBS4 A1L0W6 Q7L551 Q8N325 O94909 Q49A36 Q59H02 Q7Z4X2 Q6ZUF3
O94928 Q2NKK7 Q9Y2L2 Q8N896 Q15053 Q9HD34 Q9P0Q5 Q5ZEZ6 Q08E72
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Q6FIE6 A0PJH3 Q59FF0 Q6MZY3 P06535 Q59FW8 P42975 Q6B0I8 P23630
Q53F25 Q14138 P42975 Q8WYP8 Q53G27 Q05DM8 O60498 Q3KNS9 Q6ZUR0
Q59F95 Q05DM8 A1L429 A2RRQ4 P06535 Q6ZWC9 O14634 A0A4R1 A0JNS3
A2VCL5 A0JP04 Q561W3 A0JLR8 Q2HXV1 Q9H6P2 A2VCL5 Q5U000 Q53F49
P23630 Q49AE1 Q6FIE3 Q53T26 Q2M1I4 Q546E0 A3KME8 Q15053 P06535
O75168 Q14159 Q32N04 Q93073 A2RU51 Q3B778 A0PJM6 Q53H93 Q86W39
Q587J7 Q8WV27 Q96IP9

Terms from the process ontology with p-value ≤ 0.01 .

The total number of genes used to calculate the background distribution of GO terms is 38594.

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GOID GO:0032502

TERM developmental process

P-VALUE 2.4117668424358e-20

CORRECTED P-VALUE 4.07106243003163e-17

NUM_ANNOTATIONS 257 (of 4393)

ANNOTATED_GENES P09211, Q02750, Q8IXS6, Q13530, Q13114, O15524, P00918, O00203, Q8NHU6, P01258, Q16706, O75411, P01215, Q00577, P05549, P78536, P32302, Q92736, O60238, P27216, O14944, P48552, Q08117, P12643, P25063, P21980, Q9NZG7, O95376, P16989, P13611, Q9ULZ3, Q16568, Q9Y576, Q13323, P06748, P22607, P28908, P49675, P17509, Q16643, Q9BPW9, O14617, Q9Y366, P12544, Q15583, P24522, P30556, Q07817, Q15389, P62330, Q13153, O14613, Q9UKI2, P41225, Q9NR12, P15313, O75581, P07949, Q16739, P14222, P05067, Q13164, Q02080, O75841, P20809, P50897, P23771, Q92630, Q16671, P06401, P63104, P02458, P20382, P21359, P31371, P15311, Q92765, Q8IXI2, P16157, P20719, P48431, P09466, Q13087, P78509, P84022, P04085, P20290, Q14457, P63146, P40425, Q9NS25, P11021, O43439, Q06413, P55317, O60931, P28845, P55061, P51178, P29762, O43353, Q13207, Q9Y3A2, Q15797, P22090, P63261, P28482, P20807, Q9UBN6, P01344, P17643, Q9UL15, O75444, P78362, P19429, P14625, Q15742, Q03060, O95613, Q99732, P10144, P50148, Q02297, P04156, P14210, O43597, Q9UI36, P07288, P40426, P55212, P35548, Q6UWB1, Q9NPG1, P10721, O94788, P12034, P22303, O60882, Q6ZV73, P19404, P23769, P51813, P16471, Q99967, Q8IWZ6, Q13275, P12757, Q02535, Q13972, Q15486, P02708, O00291, P24347, P42568, O00300, Q14116, O75385, O60902, Q01518, Q13075, Q14318, O95865, O43392, Q14106, Q01196, P05556, P11684, P53778, Q6X4U4, O14763, Q16621, O00560, P08842, P38936, P28907, P53675, P42858, P51649, Q14004, P52952, P43251, P27797, O00463, P36896, P16050, P16234, P35226, P14649, P42574, Q9BYG5, Q9Y2A4, Q12948, O00499, P17081, Q12830, Q04721, Q9UBY8, P62753, P19438, Q96L96, Q9Y657, P16860, O95238, P08069, P40763, P12829, O43903, Q9NRW4, O43847, Q53EL6, P55285, P11387, O15232, Q9H7Z6, Q14244, O14582, Q14254, Q99698, O94992, O95140, P31269, P54252, O75474, Q06945, P78344, Q5T230, P28289, P31260, P11487, Q06787, Q14119, Q9NPI5, P98194, Q93096, O00257, P60660, P35318, P50616, P29375, P14652, Q15828, P35222, O00425, O60879, P12644, P43694, Q07687, P80370, Q9UJW3, Q13277, P45379, Q9Y4C5, O00167, Q14142, P06576, Q16586, P49841

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GOID GO:0007275

TERM multicellular organismal development

P-VALUE 1.38361106397202e-14

CORRECTED P-VALUE 2.33553547598476e-11

NUM_ANNOTATIONS 187 (of 3206)

ANNOTATED_GENES P09211, Q02750, O00203, P01258, Q16706, O75411, P01215, Q00577, P05549, P78536, P32302, O14944, P48552, Q08117, P12643, P25063, P21980, Q9NZG7, O95376, P16989, P13611, Q16568, Q9Y576, P22607, P49675, P17509, Q16643, Q9Y366, Q15583, P30556, Q07817, Q15389, P62330, Q13153, P41225, Q9NR12, P15313, O75581, Q16739, P07949, Q13164, Q02080, P20809, P50897, Q16671, P06401, P02458, P20382, P21359, P31371, Q92765, P48431, P20719, P09466, P78509, P04085, P20290, P40425, Q06413, P55317, O60931, P28845, P51178, P29762, Q13207, Q9Y3A2, Q15797, P22090, P63261, P28482, P20807, P01344, O75444, P19429, Q15742, Q03060, P50148, Q02297, P14210, O43597, Q9UI36, P07288, P40426, P35548, Q6UWB1, Q9NPG1, P10721, O94788, P12034, P22303, O60882, P19404, P23769, P51813, P16471, Q99967, Q8IWZ6, Q13275, P12757, Q13972, Q02535, Q15486, P02708, P24347, P42568, O00300, Q14116, O75385, O60902, Q13075, Q14318, O43392, Q14106, Q01196, P05556, P11684, Q6X4U4, P53778, P08842, Q16621, P51649, P42858, Q14004, P52952, P43251, P27797, P36896, P16050, P14649, P35226, P16234, P42574, Q9BYG5, Q12948, O00499, Q12830, Q04721, Q9UBY8, Q96L96, Q9Y657, P16860, O95238, P08069, P40763, P12829, Q9NRW4, O43847, P55285, P11387, O15232, Q9H7Z6, O14582, Q14254, O94992, O95140, P31269, P54252, O75474, Q06945, Q5T230, P28289, P11487, P31260, Q06787, Q9NPI5, Q14119, Q93096, P98194, P60660, P35318, P50616, P29375, P14652, Q15828, O60879, P12644, P43694, Q07687, P80370, Q13277, Q9UJW3, P45379, Q9Y4C5, O00167, Q14142, P06576, Q16586

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GOID GO:0048856

TERM anatomical structure development

P-VALUE 1.67465281401639e-14

CORRECTED P-VALUE 2.82681395005967e-11

NUM_ANNOTATIONS 170 (of 2822)

ANNOTATED_GENES P09211, Q02750, Q8IXS6, P00918, O00203, Q16706, O75411, P01215, Q00577, P05549, P78536, P32302, O14944, P48552, Q08117, P12643, P25063, P21980, Q9NZG7, P16989, P13611, Q16568, Q9Y576, P22607, P49675, P17509, Q16643, Q9BPW9, Q9Y366, P30556, Q07817, Q15389, P62330, Q13153, O14613, Q9UKI2, P41225, Q9NR12, P15313, Q16739, P07949, Q13164, Q02080, O75841, P20809, P50897, P23771, Q16671, P06401, P02458, P31371,

P21359, P15311, Q92765, P16157, P48431, P20719, P63146, P40425, O43439, Q06413, P55317, O60931, P28845, P51178, Q13207, Q9Y3A2, Q15797, P63261, P28482, P20807, P01344, O75444, P19429, Q15742, O95613, P50148, Q02297, P14210, O43597, P07288, P35548, Q6UWB1, Q9NPG1, P10721, O94788, P12034, P22303, O60882, Q6ZV73, P19404, P23769, P51813, Q99967, Q8IWZ6, Q02535, Q13972, Q15486, P02708, O00300, Q14116, O75385, O60902, Q01518, Q13075, Q14318, O43392, Q14106, Q01196, P05556, Q6X4U4, P53778, P08842, O00560, P53675, P51649, P42858, P52952, P43251, P27797, P36896, P16050, P14649, P16234, P42574, Q9BYG5, Q12948, P17081, Q12830, Q04721, Q9UBY8, Q96L96, P16860, P08069, P40763, O43903, P12829, O43847, P55285, O15232, Q9H7Z6, Q14244, Q14254, O14582, O94992, O95140, P54252, Q06945, Q5T230, P28289, P11487, Q06787, Q9NPI5, Q14119, P98194, P60660, P35318, P50616, P14652, Q15828, P35222, O00425, P12644, P43694, Q07687, Q13277, P45379, O00167, P06576, Q16586

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GOID GO:0032501

TERM multicellular organismal process

P-VALUE 5.24141973756288e-14

CORRECTED P-VALUE 8.84751651700614e-11

NUM_ANNOTATIONS 248 (of 4721)

ANNOTATED_GENES P09211, P25929, Q02750, P09758, P46098, Q09013, P01241, O00203, P01258, Q16706, O75411, P01215, Q00577, P05549, P78536, P32302, Q92736, O14944, P48552, Q08117, P12643, P25063, P21980, Q9NZG7, O95376, P16989, P13611, Q9ULZ3, Q16568, Q14500, Q9Y576, P22607, P28908, P49675, P43007, P17509, P31323, Q16643, Q9Y366, O60907, P01160, Q14213, Q15583, P30556, Q07817, P52789, Q15389, P62330, Q13153, P30989, P41225, Q9NR12, P15313, O75581, P07949, Q16739, P23327, P05067, Q13164, Q02080, A2RRB4, P20809, P50897, P23771, P30047, Q13702, Q16671, P06401, O43511, P02458, P20382, P21359, P31371, Q92765, P20719, P48431, Q9UHC6, P09466, P13535, P78509, P84022, P04085, P20290, P40425, Q06413, P55317, O60931, P28845, P51178, P29762, Q13207, Q9Y3A2, Q15797, P22090, P63261, P28482, P20807, P01344, Q9Y623, O75444, P19429, Q15742, P10082, Q03060, Q06432, P50148, Q02297, P14210, O60765, O43597, Q9UI36, P07288, P40426, P35548, Q12797, Q6UWB1, Q9NPG1, Q01449, P10721, O94788, P12034, P22303, O60882, P19404, P55916, P23769, P51813, P16471, Q99967, Q8IWZ6, Q13275, P12757, P12235, Q02535, Q13972, Q15486, P02708, P24347, P42568, P30559, O00300, Q14116, P61106, O75385, O60902, Q7KZN9, Q13075, P01009, Q14318, O43392, Q14106, O60237, Q01196, P05556, P11684, Q6X4U4, P53778, Q16621, O00560, P08842, P10092, P42858, P51649, Q14004, P01189, P52952, P43251, P30990, P27797,

Q8WTS1, P36896, O43490, P16050, Q9H015, P16234, P35226, P14649, O95834, P42574, Q9BYG5, Q12948, O00499, Q12830, Q04721, Q9UBY8, Q96L96, Q9Y657, P16860, O95238, P08069, P40763, P32418, P12829, Q9NRW4, P01116, O43847, Q13884, Q13310, O15492, P41222, P35499, P55285, P11387, O15232, O75762, Q9H7Z6, O14582, Q14254, O94992, O95140, P31269, Q9BS40, P54252, O75474, Q06945, Q5T230, P28289, P31260, P11487, Q06787, Q14119, Q9NPI5, P98194, Q93096, P60660, P35318, Q00169, P50616, P29375, Q9GZR5, P14652, Q15828, O00425, O60879, P12644, P43694, Q07687, P80370, Q9UJW3, Q13277, Q14353, P45379, Q9Y4C5, O00167, Q13201, Q14142, P06576, Q16586

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GOID GO:0048513

TERM organ development

P-VALUE 7.9972254690005e-14

CORRECTED P-VALUE 1.34993165916728e-10

NUM_ANNOTATIONS 123 (of 1832)

ANNOTATED_GENES P07288, P35548, Q9NPG1, O94788, P10721, O00203, P22303, Q16706, O75411, P01215, O60882, P05549, P78536, P32302, P19404, P23769, P51813, Q99967, O14944, P48552, Q8IWZ6, Q08117, P12643, P25063, P21980, P02708, Q9NZG7, Q02535, P16989, P13611, O00300, Q14116, Q16568, O75385, Q9Y576, O60902, P17509, P49675, Q9Y366, Q14318, O43392, Q14106, Q01196, P05556, P53778, Q6X4U4, P08842, P30556, Q07817, Q15389, P62330, Q13153, P42858, P41225, P52952, P43251, Q16739, P07949, Q13164, Q02080, P36896, P16050, P16234, P14649, P42574, P20809, Q12948, P50897, Q12830, Q04721, Q9UBY8, Q96L96, P16860, P06401, P02458, P08069, P31371, P21359, P48431, P20719, P12829, O43847, P55285, Q9H7Z6, Q14254, Q06413, O94992, P55317, O60931, P28845, O95140, P51178, Q06945, Q13207, Q5T230, P28289, Q15797, P11487, Q14119, Q9NPI5, P63261, P28482, P98194, P20807, P60660, P01344, P35318, P14652, Q15828, O75444, P19429, Q15742, P12644, P43694, P50148, Q02297, Q07687, P45379, O00167, P06576, P14210, Q16586, O43597

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GOID GO:0048522

TERM positive regulation of cellular process

P-VALUE 7.42004158616035e-13

CORRECTED P-VALUE 1.25250301974387e-09

NUM_ANNOTATIONS 111 (of 1636)

ANNOTATED_GENES P55212, Q02750, P29692, Q13530, Q13114, O94788, P10721, P01241, O00203, O75411, Q00577, P78536, Q92736, O60238, P23769, Q99967, O14944, P48552, P42830, Q8WVQ1, P30279, P12643, P25063, P21980,

Q02535, O00291, O95648, Q14116, Q9ULZ3, Q16568, Q13323, P28908, P49675, P08651, Q9Y366, O43392, Q01196, P05556, Q9BZQ8, O14763, Q14213, Q16621, P38936, Q07817, P62330, P28907, O14613, O43734, P42858, Q14004, P52952, P27797, P56211, O00463, P36896, P18850, P16234, P35226, A2RRB4, Q969H8, P42574, P20809, Q9Y2A4, Q12948, P50897, P18848, Q12830, Q04721, Q92630, P19438, P62753, P62070, P08069, P31371, P21359, P48431, O43847, P84022, P04085, Q14457, P43490, P40425, Q9H7Z6, Q9H2K8, Q99698, Q06413, P55317, Q06945, O43353, Q13207, Q5T230, Q9Y3A2, Q15797, Q02930, P28482, P98194, Q93096, P35318, P29375, O75444, P35222, O00327, Q99732, O60244, Q5SW96, P12644, Q9GZP9, P43694, P15514, Q02297, Q07687

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GOID GO:0048518

TERM positive regulation of biological process

P-VALUE 9.8784267584329e-13

CORRECTED P-VALUE 1.66747843682347e-09

NUM_ANNOTATIONS 119 (of 1814)

ANNOTATED_GENES P55212, Q02750, Q6UWB1, P29692, Q13530, Q13114, O94788, P10721, P01241, O00203, P22303, O75411, Q00577, P78536, Q92736, O60238, P23769, Q99967, O14944, P48552, P42830, Q8WVQ1, P30279, P12643, P25063, P21980, Q02535, P16989, O00291, O95648, Q14116, Q9ULZ3, Q16568, Q13323, P28908, P49675, P08651, Q9Y366, O43392, Q14106, Q01196, P05556, Q9BZQ8, O14763, Q14213, Q16621, P38936, P30556, Q07817, P62330, P28907, O14613, O43734, P42858, Q14004, P52952, P27797, P56211, O00463, P36896, P18850, P16234, P35226, A2RRB4, P42574, Q969H8, Q9Y2A4, P20809, Q12948, P50897, P18848, Q12830, Q04721, Q92630, P62753, P19438, P62070, P08069, O95292, P31371, P21359, P48431, O43847, P84022, P04085, Q14457, P43490, P40425, Q9H7Z6, Q9H2K8, Q99698, Q06413, P55317, Q06945, O43353, Q13207, Q5T230, Q9Y3A2, Q15797, Q02930, P28482, P98194, Q93096, P35318, P08174, P29375, O75444, P35222, O00327, Q99732, O60244, Q5SW96, P12644, Q9GZP9, P43694, P15514, Q02297, Q07687, P49841

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GOID GO:0048519

TERM negative regulation of biological process

P-VALUE 2.07406280848663e-12

CORRECTED P-VALUE 3.50101802072543e-09

NUM_ANNOTATIONS 118 (of 1813)

ANNOTATED_GENES P07288, P09211, P35548, Q10571, Q6UWB1, Q96RU8, O15524, Q9H307, P22303, P01258, Q9ULR5, P01215, P27816, Q00577, P78536,

O60238, P56545, P32320, P06280, P16471, Q99967, O14944, P48552, P12643, P25063, P08910, Q02535, P16989, Q14201, O00300, Q9ULZ3, Q16568, P98179, O75385, Q9Y576, P06748, P28908, Q13075, P49675, P08651, O95865, Q01082, Q96KC8, Q14106, P05556, Q9BZQ8, Q6X4U4, O15204, Q15583, O14683, P38936, Q07817, P62330, P52952, P27797, P24593, P36896, P42574, P20809, Q12948, O00499, P50897, Q12830, Q04721, Q9UBY8, P30047, P16860, P63104, P08069, P40763, P17028, O75563, P31371, P21359, Q92765, Q01638, P48431, P84022, P04085, Q14457, O15492, Q53EL6, Q9H7Z6, P11021, Q9H2K8, O43439, Q06413, O94992, O95140, P55061, Q06945, Q13207, Q15797, O95751, Q9NPI5, P28482, Q9UBN6, O00257, P35318, P50616, P11277, P35222, P14625, Q15742, O00425, O14921, P12644, P14373, Q02297, Q07687, P51161, P04156, Q08999, P06576, P48230, P14210, P22460, P49841

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GOID GO:0050793 & developmental process

TERM regulation of developmental process

P-VALUE 2.08860111725602e-12

CORRECTED P-VALUE 3.52555868592816e-09

NUM_ANNOTATIONS 90 (of 1228)

ANNOTATED_GENES P07288, P09211, P35548, P55212, Q02750, Q6UWB1, Q8IXS6, Q13530, Q13114, O00203, O75411, Q92736, O60238, Q6ZV73, P23769, P16471, Q99967, O14944, P12643, P25063, P21980, Q02535, P16989, O00291, O00300, Q9ULZ3, Q16568, O75385, Q13323, P06748, P28908, Q13075, P49675, O95865, Q14106, Q01196, P05556, O14763, P38936, Q07817, P28907, O14613, P42858, Q9UKI2, P52952, P27797, O00463, P36896, P42574, Q9Y2A4, Q12948, P50897, P17081, Q04721, Q92630, Q9UBY8, P62753, P16860, P63104, P08069, P31371, P21359, P15311, P48431, O43903, P84022, Q14457, P11021, Q99698, Q06413, P55061, Q06945, O43353, Q9Y3A2, Q15797, Q9NPI5, P28482, Q9UBN6, O00257, P50616, P14625, Q15742, P12644, P43694, P50148, Q02297, Q07687, P04156, P14210, P49841

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GOID GO:0050793

TERM & regulation of developmental process

P-VALUE 2.28244287174014e-12

CORRECTED P-VALUE 3.85276356749736e-09

NUM_ANNOTATIONS 90 (of 1230)

ANNOTATED_GENES P07288, P09211, P35548, P55212, Q02750, Q6UWB1, Q8IXS6, Q13530, Q13114, O00203, O75411, Q92736, O60238, Q6ZV73, P23769, P16471, Q99967, O14944, P12643, P25063, P21980, Q02535, P16989, O00291,

O00300, Q9ULZ3, Q16568, O75385, Q13323, P06748, P28908, Q13075, P49675, O95865, Q14106, Q01196, P05556, O14763, P38936, Q07817, P28907, O14613, P42858, Q9UKI2, P52952, P27797, O00463, P36896, P42574, Q9Y2A4, Q12948, P50897, P17081, Q04721, Q92630, Q9UBY8, P62753, P16860, P63104, P08069, P31371, P21359, P15311, P48431, O43903, P84022, Q14457, P11021, Q99698, Q06413, P55061, Q06945, O43353, Q9Y3A2, Q15797, Q9NPI5, P28482, Q9UBN6, O00257, P50616, P14625, Q15742, P12644, P43694, P50148, Q02297, Q07687, P04156, P14210, P49841

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GOID GO:0048731

TERM system development

P-VALUE 7.02487939095495e-12

CORRECTED P-VALUE 1.1857996411932e-08

NUM_ANNOTATIONS 147 (of 2497)

ANNOTATED_GENES P09211, Q02750, O00203, Q16706, O75411, P01215, Q00577, P05549, P78536, P32302, O14944, P48552, Q08117, P12643, P25063, P21980, Q9NZG7, P16989, P13611, Q16568, Q9Y576, P22607, P17509, P49675, Q16643, Q9Y366, P30556, Q07817, Q15389, P62330, Q13153, P41225, Q9NR12, P15313, Q16739, P07949, Q13164, Q02080, P20809, P50897, P06401, P02458, P31371, P21359, Q92765, P48431, P20719, Q06413, P55317, O60931, P28845, P51178, Q13207, Q9Y3A2, Q15797, P63261, P28482, P20807, P01344, O75444, P19429, Q15742, P50148, Q02297, P14210, O43597, P07288, P35548, Q6UWB1, Q9NPG1, P10721, O94788, P12034, P22303, O60882, P23769, P19404, P51813, Q99967, Q8IWZ6, Q13972, Q02535, Q15486, P02708, O00300, Q14116, O75385, O60902, Q13075, O43392, Q14318, Q14106, Q01196, P05556, Q6X4U4, P53778, P08842, P51649, P42858, P52952, P43251, P27797, P36896, P16050, P14649, P16234, P42574, Q9BYG5, Q12948, Q12830, Q04721, Q9UBY8, Q96L96, P16860, P08069, P40763, P12829, O43847, P55285, O15232, Q9H7Z6, Q14254, O14582, O94992, O95140, P54252, Q06945, Q5T230, P28289, P11487, Q06787, Q9NPI5, Q14119, P98194, P60660, P35318, P50616, P14652, Q15828, P12644, P43694, Q07687, Q13277, P45379, P06576, O00167, Q16586

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GOID GO:0048523

TERM negative regulation of cellular process

P-VALUE 1.547633225209e-11

CORRECTED P-VALUE 2.6124048841528e-08

NUM_ANNOTATIONS 109 (of 1675)

ANNOTATED_GENES P09211, P35548, Q10571, Q96RU8, O15524, Q9H307, P22303, P01258, Q9ULR5, P27816, Q00577, O60238, P56545, P32320, P06280, P16471, Q99967, O14944, P48552, P12643, P25063, P08910, Q02535, P16989, Q14201, Q9ULZ3, Q16568, O75385, Q9Y576, P06748, P28908, Q13075, P49675, P08651, O95865, Q01082, Q96KC8, Q14106, P05556, Q9BZQ8, Q6X4U4, O15204, Q15583, O14683, P38936, Q07817, P62330, P52952, P27797, P24593, P36896, P42574, P20809, Q12948, O00499, P50897, Q12830, Q04721, Q9UBY8, P16860, P63104, P08069, P40763, P17028, O75563, P31371, P21359, Q92765, Q01638, P48431, P04085, P84022, Q14457, O15492, Q53EL6, Q9H7Z6, P11021, Q9H2K8, O43439, Q06413, O94992, O95140, P55061, Q06945, Q13207, Q15797, O95751, Q9NPI5, P28482, Q9UBN6, O00257, P50616, P11277, P35222, P14625, Q15742, O00425, O14921, P12644, P14373, Q02297, Q07687, P51161, P04156, Q08999, P06576, P48230, P14210, P49841

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GOID GO:0008283

TERM cell proliferation

P-VALUE 4.83295217835587e-11

CORRECTED P-VALUE 8.15802327706471e-08

NUM_ANNOTATIONS 81 (of 1118)

ANNOTATED_GENES P35548, Q02750, Q96RU8, P09758, Q9NPG1, O94788, P10721, P12034, P22303, Q14542, O75411, Q00577, P78536, P56545, O14944, P42830, P30279, P12643, P25063, P21980, Q13972, Q14201, P40818, Q14116, P06748, P28908, Q14106, P05556, Q14213, O14683, P38936, P30556, Q07817, P28907, Q14004, P52952, P27797, O00463, P24593, P35226, P16234, Q969H8, P42574, P20809, Q9UQV4, Q12948, O00499, Q04721, P06401, P08069, P31371, P21359, O75563, Q9NRW4, O43847, P04085, Q14457, P43490, P40238, O95140, O75474, Q06945, P30260, Q13207, O43353, P11487, O95751, Q15797, P01344, P35318, P50616, P56277, Q15742, P10082, P12644, P15514, Q9GZP9, P14373, P51161, P48230, P14210

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GOID GO:0006091

TERM generation of precursor metabolites and energy

P-VALUE 6.44444393109005e-10

CORRECTED P-VALUE 1.087822135568e-06

NUM_ANNOTATIONS 48 (of 537)

ANNOTATED_GENES P35573, O75746, O75390, P62140, Q92630, P21281, O15342, P06737, P13807, Q15067, O95169, P19404, P14927, Q13423, Q93100, P19367, P12235, P46976, P48735, P47985, O75251, P00403, Q00325, P50213,

Q7KZN9, O15239, P30049, Q13011, O00483, P56385, O95167, Q06055, O75964, P35754, P52789, P30613, P17174, P51649, O95278, P01189, P10109, P15313, O95685, P15954, P06576, Q16821, P13073, P49841

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GOID GO:0012501

TERM programmed cell death

P-VALUE 7.83320806147626e-10

CORRECTED P-VALUE 1.32224552077719e-06

NUM_ANNOTATIONS 79 (of 1144)

ANNOTATED_GENES P09211, P35548, P55212, Q13530, Q13114, O75411, P78536, Q92736, O60238, P16471, Q99967, P25063, P21980, Q02535, O00291, P16989, O00300, Q9ULZ3, Q13323, P06748, P28908, Q13075, P49675, Q14318, O95865, P12544, O14763, P38936, P24522, Q07817, P62330, P28907, Q13153, P42858, P52952, P14222, P27797, P05067, Q13164, O00463, P36896, P42574, Q9Y2A4, Q12948, P50897, Q04721, Q92630, Q9UBY8, P19438, P62753, P63104, P08069, P21359, O43903, Q8IXI2, Q9NRW4, Q13087, P84022, Q14457, Q53EL6, P11387, P11021, Q06413, Q99698, P55061, Q06945, O43353, Q9Y3A2, Q9UBN6, O00257, P28482, Q9UL15, P14625, P10144, Q99732, P04156, O00167, P14210, P49841

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GOID GO:0006915

TERM apoptosis

P-VALUE 1.24899256398491e-09

CORRECTED P-VALUE 2.10829944800652e-06

NUM_ANNOTATIONS 78 (of 1135)

ANNOTATED_GENES P09211, P35548, P55212, Q13530, Q13114, O75411, P78536, Q92736, O60238, P16471, Q99967, P25063, P21980, Q02535, O00291, P16989, O00300, Q9ULZ3, Q13323, P06748, P28908, Q13075, P49675, Q14318, O95865, P12544, O14763, P38936, P24522, Q07817, P62330, P28907, Q13153, P42858, P52952, P14222, P27797, P05067, Q13164, O00463, P36896, P42574, Q9Y2A4, Q12948, P50897, Q04721, Q92630, Q9UBY8, P19438, P62753, P63104, P08069, P21359, O43903, Q8IXI2, Q9NRW4, Q13087, P84022, Q14457, Q53EL6, P11021, Q06413, Q99698, P55061, Q06945, O43353, Q9Y3A2, Q9UBN6, O00257, P28482, Q9UL15, P14625, P10144, Q99732, P04156, O00167, P14210, P49841

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GOID GO:0009653

TERM anatomical structure morphogenesis

P-VALUE 1.57797009247196e-09
CORRECTED P-VALUE 2.66361351609268e-06
NUM_ANNOTATIONS 93 (of 1461)
ANNOTATED_GENES P07288, P35548, Q8IXS6, Q9NPG1, O94788, P00918, Q16706, O60882, Q6ZV73, P23769, Q99967, O14944, Q8IWZ6, Q08117, P12643, P25063, P21980, Q9NZG7, Q02535, Q13972, O00300, Q14116, O75385, P17509, Q01518, Q16643, Q9BPW9, Q9Y366, O43392, Q01196, Q6X4U4, O00560, Q15389, P62330, Q13153, O14613, P53675, P42858, Q9UKI2, P41225, P52952, P07949, Q13164, P16234, O75841, Q9BYG5, Q12948, P23771, P17081, Q04721, P16860, Q16671, P06401, P02458, P08069, P31371, P21359, P15311, P48431, P20719, O43903, P16157, P63146, P40425, Q14244, O43439, Q06413, P55317, O95140, P51178, Q13207, Q15797, P11487, Q14119, P28482, P01344, P14652, Q15828, P19429, P35222, Q15742, O95613, O00425, P12644, P43694, P50148, Q07687, Q13277, P45379, O00167, P06576, P14210, O43597

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GOID GO:0008219

TERM cell death

P-VALUE 1.58538039252946e-09
CORRECTED P-VALUE 2.67612210258972e-06
NUM_ANNOTATIONS 81 (of 1204)
ANNOTATED_GENES P09211, P35548, P55212, Q13530, Q13114, O75411, P78536, Q92736, O60238, P16471, Q99967, P25063, P21980, Q02535, O00291, P16989, O00300, Q9ULZ3, Q13323, P06748, P28908, Q13075, P49675, Q14318, O95865, P12544, O14763, P38936, P24522, Q07817, P62330, P28907, Q13153, P42858, P52952, P14222, P27797, P05067, Q13164, O00463, P36896, P42574, Q9Y2A4, Q12948, P50897, Q04721, Q92630, Q9UBY8, P19438, P62753, P63104, P08069, P21359, O43903, Q8IXI2, Q9NRW4, Q13087, P84022, Q14457, Q53EL6, P11387, P11021, Q06413, Q99698, P55061, P54252, Q06945, P78344, O43353, Q9Y3A2, Q9UBN6, O00257, P28482, Q9UL15, P14625, P10144, Q99732, P04156, O00167, P14210, P49841

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GOID GO:0016265

TERM death

P-VALUE 1.84374361970479e-09
CORRECTED P-VALUE 3.11223923006169e-06
NUM_ANNOTATIONS 81 (of 1208)
ANNOTATED_GENES P09211, P35548, P55212, Q13530, Q13114, O75411, P78536, Q92736, O60238, P16471, Q99967, P25063, P21980, Q02535, O00291,

P16989, O00300, Q9ULZ3, Q13323, P06748, P28908, Q13075, P49675, Q14318, O95865, P12544, O14763, P38936, P24522, Q07817, P62330, P28907, Q13153, P42858, P52952, P14222, P27797, P05067, Q13164, O00463, P36896, P42574, Q9Y2A4, Q12948, P50897, Q04721, Q92630, Q9UBY8, P19438, P62753, P63104, P08069, P21359, O43903, Q8IXI2, Q9NRW4, Q13087, P84022, Q14457, Q53EL6, P11387, P11021, Q06413, Q99698, P55061, P54252, Q06945, P78344, O43353, Q9Y3A2, Q9UBN6, O00257, P28482, Q9UL15, P14625, P10144, Q99732, P04156, O00167, P14210, P49841

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GOID GO:0051093

TERM negative regulation of developmental process

P-VALUE 1.90259297006775e-09

CORRECTED P-VALUE 3.21157693347436e-06

NUM_ANNOTATIONS 48 (of 555)

ANNOTATED_GENES P07288, P09211, P35548, P42574, Q12948, P50897, Q04721, Q9UBY8, O60238, P16860, P63104, P08069, P16471, Q99967, P21359, O14944, P48431, Q14457, P25063, P16989, O00300, P11021, Q16568, O75385, Q06413, P06748, P55061, P49675, Q13075, O95865, Q06945, Q14106, P05556, Q9NPI5, P28482, Q9UBN6, O00257, P38936, P50616, Q07817, P14625, P12644, P52952, Q07687, P04156, P27797, P14210, P49841

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GOID GO:0007507

TERM heart development

P-VALUE 2.56015149263617e-09

CORRECTED P-VALUE 4.32153571956986e-06

NUM_ANNOTATIONS 28 (of 227)

ANNOTATED_GENES P35548, Q06413, O94992, O60902, P42574, Q12948, O94788, Q9Y366, Q06945, Q13207, Q96L96, P05556, P35318, P19404, P19429, P31371, P21359, Q99967, Q8IWZ6, P12644, P12643, P52952, P43694, P50148, Q02297, Q02535, P45379, P13611

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GOID GO:0009887

TERM organ morphogenesis

P-VALUE 7.46309587596074e-09

CORRECTED P-VALUE 1.25977058386217e-05

NUM_ANNOTATIONS 54 (of 693)

ANNOTATED_GENES P07288, P16234, P35548, Q9NPG1, Q12948, O94788, Q04721, Q16706, O60882, P16860, P02458, P23769, P08069, Q99967, P21359, P31371, O14944, Q8IWZ6, P20719, P48431, Q08117, P12643, P21980, O00300, Q14116, Q06413, O95140, P17509, P51178, Q9Y366, O43392, Q13207, Q01196, P11487, Q14119, Q6X4U4, P28482, P01344, P14652, P62330, Q15389, P19429, Q15742, P42858, P41225, P12644, P52952, P43694, Q07687, P45379, Q13164, P06576, P14210, O43597

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GOID GO:XXXXXXX

TERM unannotated

P-VALUE 1.81075377546647e-08

CORRECTED P-VALUE 3.0565523729874e-05

NUM_ANNOTATIONS 468 (of 11418)

ANNOTATED_GENES Q6FIE3, A0PJ82, A1L389, O14643, A0AV96, Q4VBP5, Q8WY49, O94928, A1L172, A0RZB6, P35268, Q8NBV9, Q6IBU4, Q68DZ4, O60308, P80723, Q6UWK3, Q68CU4, Q8TAX7, Q9BUB7, O75391, Q53EW6, Q7Z4X2, P24311, Q561W3, Q6IN92, O14950, Q8TE69, A1A4H0, A0JLS9, Q9P007, Q9P164, Q7Z585, Q9BU22, Q3KQX9, Q9HD34, Q8N3Z4, Q58A70, Q8IUQ3, Q14159, Q8TB73, Q86W39, P20674, P62079, A0PJ75, Q53F39, O94800, Q93073, O95454, Q86V25, A0PK90, Q14DL9, Q59H02, P43363, Q9UJ78, A2RRD1, P55259, A0AVE2, Q7Z570, Q86XZ4, Q08AF4, P11234, P84101, Q3BBV0, Q14247, A2IBT1, A0PJH6, O43151, Q0D2Q4, Q49A36, Q69YR0, A2RRN1, Q8NDC0, Q92901, A1L159, Q8TDJ6, A0JP19, Q8IZQ1, Q6ZWC9, Q8N6T0, A1JUI9, A2N8H4, Q6FI91, A2RRB5, Q59EK2, Q68DB7, A2RRQ4, Q6ZN02, Q9NVM1, Q59GU8, Q8IXT5, Q96GC9, O60296, Q6FIE6, Q7L551, Q24JQ7, Q59GV9, Q9BU79, Q5JY77, A2RRA7, Q549N5, O94981, Q5SRI9, Q13732, Q9BUN5, Q4G137, Q05BM8, Q92539, Q2M1I4, Q05CY1, Q6ZR23, Q5JR59, Q05DH2, Q9P0Q5, Q9NV64, Q1XBE0, Q69YW5, Q05DM8, Q9BSB4, Q6P1K4, Q59HH1, Q2YDX2, Q05DF0, O95037, O15479, Q13145, A1L4G9, A0PJW7, O15014, Q14783, Q9Y2B0, Q9Y3E2, Q3BBW2, Q6ZRF1, A0PJN8, Q12916, Q5YKG5, P22676, Q2NKK7, A0AVL2, Q9NPD7, A2VCQ7, Q53G98, Q96CS3, A0JP04, Q53T26, Q6P9E1, Q8TCR4, P48723, O95065, O14891, Q8N3P4, O94909, O94945, Q9H871, Q53HM1, Q6P5R1, Q6NXU1, P46783, Q59F95, Q6ZWB7, Q59HE8, Q05DG5, Q9BUN1, Q68CU5, Q71RF0, A1L0W6, Q59GL6, Q59FW8, Q546Y9, Q4V9L5, Q05BX6, A1L199, Q13659, Q96GQ5, Q8NI58, Q9BTD3, Q08379, Q68VJ4, A2N4P8, Q5U3C3, Q5MY58, A2RTX1, Q15053, A0S0A6, Q05BX0, O43862, Q8IXW5, Q5W9G7, Q9NS93, O75167, Q549N3, A0A4R1, Q6ZSU1, Q8TCA0, Q9BYP9, Q6PJD5, A0N5G7, Q96DX7, Q9NSX9, Q6NUK0, Q7Z345, O60321, Q587J7, Q49AE1, A0PJC9, P06535, Q1ED39, Q4ZG56, A0PJH3, O75090, Q6MZY9, Q5JPP0, A1L381,

Q9HCD6, Q6P052, Q2HXV1, Q7Z4L4, A0PJM6, Q8IZW1, A2RU15, Q96JS4, Q05D72, P03947, Q68VI9, A2VCQ3, P61165, Q12900, Q6IBT0, Q53FS1, Q9HBI5, Q53GU1, Q9P0N2, A1L429, P43355, Q0VD96, Q53F49, Q32Q70, O43466, Q6MZY3, Q566Q2, O75059, Q2M389, Q7L592, Q58WW2, Q5XKB6, Q6PKG0, A0JLR8, Q5T1V4, Q6ZP15, Q05CZ3, Q549M4, O75168, Q8N896, Q13067, Q8N9C1, A2RRP1, Q86V69, Q9P2E5, Q504U0, Q96MD3, Q7L2J0, O00547, Q14157, Q53FL4, Q53ZT9, A2RRB9, P18827, Q8N7I0, Q6I9Z7, A1YLA1, Q9UI14, O95680, P51116, Q6TV07, Q6IQ45, A1DZ74, A0PJ71, P01037, Q9BUE6, O76070, Q05C86, Q53GX9, Q9NZN3, P02545, P49006, P15509, Q8NBS4, Q3ZCW2, Q1KSF7, O14634, Q540G1, Q96IY7, Q66K30, Q5D0K4, Q53F40, O00508, O75112, Q9HC03, A2RUE5, A1L174, A0PK08, Q6ITU8, Q6ZSI7, O75785, P61353, Q96GY3, A2RU93, Q6L9J5, Q9H095, Q53G27, Q8WYP8, Q92521, A2RRQ6, P80303, A0JLT9, A0AV37, Q6ZVZ4, Q05DQ9, Q5DNC5, Q6ZWH1, Q9Y2L2, Q16775, A2VCL5, A0A4Z1, A1L374, A1L1B7, Q6ZTC9, Q8WV27, Q6ZUF3, A2RRE2, Q53H93, Q19CC6, Q6PJQ7, Q9BVI4, Q6PJJ7, O60498, Q7Z6N2, A0JLN5, Q14138, Q59ED9, O60927, Q5U0L9, Q3B7W8, Q17RN0, Q5VYS8, Q8IXM0, Q14693, Q6FHW4, Q6ZSM6, Q96CZ6, Q546E0, Q6FGM0, Q59FF0, Q15532, Q05D76, P23630, A0AV58, Q53XI4, Q59F66, P43366, Q6JIC5, A1L147, Q05CP8, Q0VG09, Q05BS8, P28325, Q6ICC1, Q68D71, O94903, Q4AEJ6, A0PJD1, Q9NUU6, A4FTW3, Q96I57, Q6PIX0, Q8N325, A0MWC9, A1L417, Q6B0I8, Q68A20, Q14CS0, Q59GH8, Q0VDJ6, Q52LL3, O15026, Q5ZEZ6, Q9UBI1, Q8N632, A1L1B5, Q08E78, Q96IP9, Q14050, Q92535, O76095, P09228, Q9H053, Q0VIA0, Q08E72, A1L3W4, Q499Z9, Q12966, Q8TCE6, Q3B778, A2VCN1, Q16655, Q8TBU7, Q59H22, P42975, Q9UJQ1, Q3KNS9, Q59GH2, O15281, Q6NZ63, P04948, A2RU51, Q5U000, Q569H2, A0T1T0, Q0VGB5, Q9BX10, Q4W8W0, A0AVH1, O14792, A1A5C4, Q9NUD9, Q6PID8, A1L3A9, Q08AK5, Q5G0E1, Q32NE2, Q53HC5, Q9P0F3, Q542Z6, Q8IUT8, Q96GX3, Q58F28, Q9H568, Q5MIJQ4, Q2M3R2, Q5YLC1, Q6TDC3, Q9H5Z6, A1L469, Q9H6P2, Q0IIN7, A0JNS3, P07498, Q24JS2, Q8NHP6, A3KME8, Q9BV23, Q8NDI1, Q6ZUR0, O43567, Q4G182, Q5I0G1, Q32N04, Q6NTB9, Q9H7Z1, Q15810, Q59FY5, Q9NQL2, Q6IA88, Q53F25, A2RU55, Q96BX3, Q8TC04

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GOID GO:0042127 & cell proliferation

TERM regulation of cell proliferation

P-VALUE 2.20574382213064e-08

CORRECTED P-VALUE 3.72329557175652e-05

NUM_ANNOTATIONS 53 (of 696)

ANNOTATED_GENES P16234, P35226, P35548, Q96RU8, P42574, Q969H8, P20809, O94788, P10721, Q04721, Q00577, P78536, P56545, P08069, O75563,

P21359, P31371, O14944, P42830, P04085, P30279, Q14457, P12643, P25063, P43490, P21980, Q14201, Q14116, P06748, P28908, O95140, Q06945, Q14106, Q13207, Q15797, O95751, P05556, Q14213, O14683, P38936, P35318, P50616, Q07817, P28907, P12644, Q14004, P52952, Q9GZP9, P51161, P27797, P48230, O00463, P24593

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GOID GO:0042127

TERM ®ulation of cell proliferation

P-VALUE 4.46563678597518e-08

CORRECTED P-VALUE 7.5379948947261e-05

NUM_ANNOTATIONS 55 (of 751)

ANNOTATED_GENES P16234, P35226, P35548, Q96RU8, P42574, Q969H8, P20809, O94788, P10721, Q04721, O75411, Q00577, P78536, P56545, P08069, O75563, P21359, P31371, O14944, P42830, P04085, P30279, Q14457, P12643, P25063, P43490, P21980, Q14201, Q14116, P06748, P28908, O95140, Q06945, Q14106, Q13207, Q15797, O95751, P05556, Q14213, O14683, P38936, P35318, P30556, P50616, Q07817, P28907, P12644, Q14004, P52952, Q9GZP9, P51161, P27797, P48230, O00463, P24593

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GOID GO:0031325

TERM positive regulation of cellular metabolic process

P-VALUE 6.08703254417992e-08

CORRECTED P-VALUE 0.000102749109345757

NUM_ANNOTATIONS 54 (of 738)

ANNOTATED_GENES P16234, A2RRB4, P20809, Q12948, P01241, P18848, Q12830, Q92630, P19438, P78536, P23769, P08069, Q99967, P48552, O14944, P48431, O43847, P84022, P04085, P30279, Q14457, P12643, P25063, P40425, Q9H7Z6, Q06413, P55317, P28908, P08651, Q9Y366, Q06945, O43392, Q5T230, Q01196, Q15797, Q02930, Q9BZQ8, Q14213, Q16621, P29375, P62330, O75444, P35222, O00327, O14613, O60244, P12644, P52952, P15514, P43694, Q07687, P27797, P56211, P18850

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GOID GO:0042981

TERM regulation of apoptosis

P-VALUE 6.12622943384648e-08

CORRECTED P-VALUE 0.000103410752843329

NUM_ANNOTATIONS 58 (of 819)

ANNOTATED_GENES P09211, P35548, P55212, P42574, Q13530, Q9Y2A4, Q13114, Q12948, P50897, Q04721, Q92630, O75411, Q9UBY8, P62753, Q92736, O60238, P63104, P08069, P16471, Q99967, P21359, P84022, Q14457, P25063, P21980, Q02535, O00291, P16989, P11021, Q9ULZ3, Q99698, Q06413, P06748, Q13323, P28908, P55061, P49675, Q13075, O95865, Q06945, O43353, Q9Y3A2, O14763, P28482, Q9UBN6, O00257, P38936, Q07817, P28907, P14625, P42858, P52952, P04156, P27797, O00463, P14210, P36896, P49841

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GOID GO:0043067

TERM ®ulation of programmed cell death

P-VALUE 8.87480708185102e-08

CORRECTED P-VALUE 0.000149806743541645

NUM_ANNOTATIONS 58 (of 828)

ANNOTATED_GENES P09211, P35548, P55212, P42574, Q13530, Q9Y2A4, Q13114, Q12948, P50897, Q04721, Q92630, O75411, Q9UBY8, P62753, Q92736, O60238, P63104, P08069, P16471, Q99967, P21359, P84022, Q14457, P25063, P21980, Q02535, O00291, P16989, P11021, Q9ULZ3, Q99698, Q06413, P06748, Q13323, P28908, P55061, P49675, Q13075, O95865, Q06945, O43353, Q9Y3A2, O14763, P28482, Q9UBN6, O00257, P38936, Q07817, P28907, P14625, P42858, P52952, P04156, P27797, O00463, P14210, P36896, P49841

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GOID GO:0043067 & programmed cell death

TERM regulation of programmed cell death

P-VALUE 8.87480708185102e-08

CORRECTED P-VALUE 0.000149806743541645

NUM_ANNOTATIONS 58 (of 828)

ANNOTATED_GENES P09211, P35548, P55212, P42574, Q13530, Q9Y2A4, Q13114, Q12948, P50897, Q04721, Q92630, O75411, Q9UBY8, P62753, Q92736, O60238, P63104, P08069, P16471, Q99967, P21359, P84022, Q14457, P25063, P21980, Q02535, O00291, P16989, P11021, Q9ULZ3, Q99698, Q06413, P06748, Q13323, P28908, P55061, P49675, Q13075, O95865, Q06945, O43353, Q9Y3A2, O14763, P28482, Q9UBN6, O00257, P38936, Q07817, P28907, P14625, P42858, P52952, P04156, P27797, O00463, P14210, P36896, P49841

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GOID GO:0009893

TERM positive regulation of metabolic process

P-VALUE 1.70346121878168e-07

CORRECTED P-VALUE 0.000287544253730348
NUM_ANNOTATIONS 54 (of 762)
ANNOTATED_GENES P16234, A2RRB4, P20809, Q12948, P01241, P18848,
Q12830, Q92630, P19438, P78536, P23769, P08069, Q99967, P48552, O14944,
P48431, O43847, P84022, P04085, P30279, Q14457, P12643, P25063, P40425,
Q9H7Z6, Q06413, P55317, P28908, P08651, Q9Y366, Q06945, O43392, Q5T230,
Q01196, Q15797, Q02930, Q9BZQ8, Q14213, Q16621, P29375, P62330, O75444,
P35222, O00327, O14613, O60244, P12644, P52952, P15514, P43694, Q07687,
P27797, P56211, P18850

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GOID GO:0010604

TERM +positive regulation of macromolecule metabolic process

P-VALUE 1.74549702588661e-07

CORRECTED P-VALUE 0.000294639897969659

NUM_ANNOTATIONS 52 (of 722)

ANNOTATED_GENES P16234, A2RRB4, P20809, Q12948, P01241, P18848,
Q12830, Q92630, P19438, P78536, P23769, P08069, Q99967, P48552, O14944,
P48431, O43847, P84022, P04085, P30279, P12643, P25063, P40425, Q9H7Z6,
Q06413, P55317, P28908, P08651, Q9Y366, Q06945, O43392, Q5T230, Q01196,
Q15797, Q02930, Q9BZQ8, Q14213, Q16621, P29375, P62330, O75444, P35222,
O00327, O14613, O60244, P12644, P52952, P15514, P43694, Q07687, P27797,
P18850

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GOID GO:0010604 + macromolecule metabolic process

TERM positive regulation of macromolecule metabolic process

P-VALUE 1.74549702588661e-07

CORRECTED P-VALUE 0.000294639897969659

NUM_ANNOTATIONS 52 (of 722)

ANNOTATED_GENES P16234, A2RRB4, P20809, Q12948, P01241, P18848,
Q12830, Q92630, P19438, P78536, P23769, P08069, Q99967, P48552, O14944,
P48431, O43847, P84022, P04085, P30279, P12643, P25063, P40425, Q9H7Z6,
Q06413, P55317, P28908, P08651, Q9Y366, Q06945, O43392, Q5T230, Q01196,
Q15797, Q02930, Q9BZQ8, Q14213, Q16621, P29375, P62330, O75444, P35222,
O00327, O14613, O60244, P12644, P52952, P15514, P43694, Q07687, P27797,
P18850

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GOID GO:0007167

TERM enzyme linked receptor protein signaling pathway

P-VALUE 1.76154646836602e-07

CORRECTED P-VALUE 0.000297349043860184

NUM_ANNOTATIONS 38 (of 451)

ANNOTATED_GENES P16234, P35548, Q8IXS6, Q12948, O15524, P10721, P01241, P12034, P54764, P78536, Q16671, P08069, P16471, P31371, O14944, Q99967, P27986, P84022, P04085, P12643, O75385, P22607, O75962, O15105, Q01082, Q9Y3A2, Q15797, Q6X4U4, P01344, P50616, Q13153, P12644, P15514, O75582, P07949, P36896, P14210, P24593

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GOID GO:0051094

TERM positive regulation of developmental process

P-VALUE 3.60267638182652e-07

CORRECTED P-VALUE 0.000608131773252316

NUM_ANNOTATIONS 44 (of 579)

ANNOTATED_GENES P55212, Q02750, P42574, Q13530, Q9Y2A4, Q13114, O00203, Q04721, Q92630, O75411, P62753, Q92736, O60238, P23769, P21359, P31371, P84022, P12643, P25063, P21980, Q02535, O00291, Q9ULZ3, Q99698, Q13323, P28908, P49675, Q06945, Q14106, O43353, Q01196, Q9Y3A2, Q15797, O14763, P28482, P38936, P28907, O14613, P12644, P42858, P52952, P43694, Q02297, P36896

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GOID GO:0051239

TERM ®ulation of multicellular organismal process

P-VALUE 6.18369216806803e-07

CORRECTED P-VALUE 0.00104380723796988

NUM_ANNOTATIONS 51 (of 732)

ANNOTATED_GENES P07288, P25929, Q6UWB1, Q09013, P01241, O00203, P22303, P01258, O75411, P78536, Q92736, P16860, P23769, P32418, P21359, P31371, O14944, P12829, P84022, P04085, P12643, P25063, Q13972, P41222, O00300, Q9ULZ3, Q16568, Q14500, O75385, Q9Y576, P28908, P49675, Q16643, Q14106, Q01196, Q15797, Q9NPI5, Q14213, P35318, P30556, P50616, Q15742, O00425, P12644, P52952, P43694, Q02297, Q07687, P45379, P27797, P36896

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GOID GO:0051239 & multicellular organismal process

TERM regulation of multicellular organismal process

P-VALUE 6.18369216806803e-07

CORRECTED P-VALUE 0.00104380723796988
NUM_ANNOTATIONS 51 (of 732)
ANNOTATED_GENES P07288, P25929, Q6UWB1, Q09013, P01241, O00203,
P22303, P01258, O75411, P78536, Q92736, P16860, P23769, P32418, P21359,
P31371, O14944, P12829, P84022, P04085, P12643, P25063, Q13972, P41222,
O00300, Q9ULZ3, Q16568, Q14500, O75385, Q9Y576, P28908, P49675, Q16643,
Q14106, Q01196, Q15797, Q9NPI5, Q14213, P35318, P30556, P50616, Q15742,
O00425, P12644, P52952, P43694, Q02297, Q07687, P45379, P27797, P36896

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GOID GO:0043066

TERM negative regulation of apoptosis

P-VALUE 7.64217154862723e-07

CORRECTED P-VALUE 0.00128999855740828

NUM_ANNOTATIONS 31 (of 349)

ANNOTATED_GENES P09211, P35548, Q06413, P06748, P42574, P55061,
Q13075, P49675, Q12948, P50897, Q04721, O95865, Q06945, Q9UBY8, O60238,
O00257, Q9UBN6, P63104, P38936, P08069, Q07817, P16471, Q99967, P14625,
Q14457, P52952, P16989, P04156, P14210, P11021, P49841

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GOID GO:0015980

TERM energy derivation by oxidation of organic compounds

P-VALUE 8.40119077224519e-07

CORRECTED P-VALUE 0.00141812100235499

NUM_ANNOTATIONS 18 (of 139)

ANNOTATED_GENES P35573, P50213, O75390, Q7KZN9, P62140, Q92630,
P06737, P13807, P14927, Q13423, P17174, Q93100, O95278, P46976, O95685,
P48735, Q16821, P49841

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GOID GO:0006936

TERM muscle contraction

P-VALUE 9.29477016938367e-07

CORRECTED P-VALUE 0.00156895720459196

NUM_ANNOTATIONS 22 (of 200)

ANNOTATED_GENES Q14500, P14649, Q12797, Q01449, O60237, Q92736,
P60660, P32418, Q9Y623, P19429, P12829, P13535, Q13884, P52952, Q06432,
P02708, Q14353, P35499, P45379, P23327, P30559, Q16586

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GOID GO:0043069

TERM negative regulation of programmed cell death

P-VALUE 1.03480358967791e-06

CORRECTED P-VALUE 0.00174674845937631

NUM_ANNOTATIONS 31 (of 354)

ANNOTATED_GENES P09211, P35548, Q06413, P06748, P42574, P55061, Q13075, P49675, Q12948, P50897, Q04721, O95865, Q06945, Q9UBY8, O60238, O00257, Q9UBN6, P63104, P38936, P08069, Q07817, P16471, Q99967, P14625, Q14457, P52952, P16989, P04156, P14210, P11021, P49841

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GOID GO:0001501

TERM skeletal system development

P-VALUE 1.09858279373949e-06

CORRECTED P-VALUE 0.00185440775583225

NUM_ANNOTATIONS 31 (of 355)

ANNOTATED_GENES P16050, O14582, P35548, Q06413, P22607, O60902, P17509, Q12948, P22303, O75411, Q14106, Q15797, P01344, P02458, P50616, P14652, O75444, P31371, P21359, Q92765, Q15742, P20719, P12644, P12643, P50148, Q15486, Q07687, Q9NR12, P15313, O00300, O15232

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GOID GO:0065008

TERM regulation of biological quality

P-VALUE 1.47704578420639e-06

CORRECTED P-VALUE 0.00249325328374039

NUM_ANNOTATIONS 94 (of 1720)

ANNOTATED_GENES P25929, Q8IXS6, O15524, O94788, P22303, P01258, P01215, P78536, Q92736, P32320, Q6ZV73, P14061, Q13162, P12235, P25063, P21980, P02708, P30559, Q6UWJ1, P61106, Q16568, P22607, P17509, P49675, Q9BPW9, P01009, Q01082, P01160, Q16621, P38936, P30556, P35754, Q07817, P62330, P10092, Q9BPX5, O14613, Q9UKI2, P51649, Q9BS26, P01189, P15313, P30990, P27797, P05067, P24593, P36896, Q9H015, P42574, P20809, Q92506, Q12948, P50897, P17081, Q04721, Q9UBY8, P62753, P30047, P06737, P16860, P32418, P21359, P15311, Q15084, P48431, P12829, O43903, Q8IXI2, Q13087, P46092, P84022, P04085, Q13310, P62847, P55317, Q15797, P08708, Q14849, P98194, P35318, P08174, P11277, P17174, P19429, P14625, Q15742, Q5SW96, P12644, Q9GZP9, P50148, P04156, P06576, Q13201, P22460

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GOID GO:0005977

TERM glycogen metabolic process

P-VALUE 1.55569169365332e-06

CORRECTED P-VALUE 0.0026260075788868

NUM_ANNOTATIONS 11 (of 55)

ANNOTATED_GENES P35573, Q93100, P62140, Q92630, O95278, P46976, O95685, P06737, P13807, Q16821, P49841

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GOID GO:0006073

TERM glucan metabolic process

P-VALUE 1.87833438415314e-06

CORRECTED P-VALUE 0.0031706284404505

NUM_ANNOTATIONS 11 (of 56)

ANNOTATED_GENES P35573, Q93100, P62140, Q92630, O95278, P46976, O95685, P06737, P13807, Q16821, P49841

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GOID GO:0003012

TERM muscle system process

P-VALUE 1.94890548052644e-06

CORRECTED P-VALUE 0.00328975245112863

NUM_ANNOTATIONS 22 (of 209)

ANNOTATED_GENES Q14500, P14649, Q12797, Q01449, O60237, Q92736, P60660, P32418, Q9Y623, P19429, P12829, P13535, Q13884, P52952, Q06432, P02708, Q14353, P35499, P45379, P23327, P30559, Q16586

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GOID GO:0007243

TERM protein kinase cascade

P-VALUE 3.23419557577769e-06

CORRECTED P-VALUE 0.00545932213191274

NUM_ANNOTATIONS 39 (of 528)

ANNOTATED_GENES Q96RU8, P29692, P20809, O15524, P10721, P01241, P19438, Q15208, P08069, P40763, P16471, P31371, P21359, Q01638, Q9NRW4, P27986, Q8WVQ1, Q13162, P25063, P21980, P49137, Q9H2K8, Q16568, Q13115, P22607, O43353, Q15797, O14763, P98194, P28482, P78362, O43734, Q99732, O75582, P07949, Q8IV61, O00463, P14210, Q15750

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GOID GO:0010557

TERM +positive regulation of macromolecule biosynthetic process

P-VALUE 3.57733963413018e-06

CORRECTED P-VALUE 0.00603854930241174

NUM_ANNOTATIONS 43 (of 611)

ANNOTATED_GENES P16234, A2RRB4, P20809, Q12948, P18848, Q12830, Q92630, P19438, P23769, P08069, Q99967, P48552, O14944, P48431, P84022, P04085, P12643, P40425, Q9H7Z6, Q06413, P55317, P28908, P08651, Q06945, O43392, Q5T230, Q01196, Q15797, Q02930, Q9BZQ8, Q14213, Q16621, P29375, O75444, P35222, O00327, O60244, P52952, P15514, P43694, Q07687, P27797, P18850

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GOID GO:0010557 + macromolecule biosynthetic process

TERM positive regulation of macromolecule biosynthetic process

P-VALUE 3.57733963413018e-06

CORRECTED P-VALUE 0.00603854930241174

NUM_ANNOTATIONS 43 (of 611)

ANNOTATED_GENES P16234, A2RRB4, P20809, Q12948, P18848, Q12830, Q92630, P19438, P23769, P08069, Q99967, P48552, O14944, P48431, P84022, P04085, P12643, P40425, Q9H7Z6, Q06413, P55317, P28908, P08651, Q06945, O43392, Q5T230, Q01196, Q15797, Q02930, Q9BZQ8, Q14213, Q16621, P29375, O75444, P35222, O00327, O60244, P52952, P15514, P43694, Q07687, P27797, P18850

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GOID GO:0007267

TERM cell-cell signaling

P-VALUE 3.73922672049818e-06

CORRECTED P-VALUE 0.00631181470420092

NUM_ANNOTATIONS 50 (of 758)

ANNOTATED_GENES P20809, P46098, P50897, P12034, P22303, P01215, Q9UBY8, P30047, Q13702, P06401, Q07325, P20382, P21359, O14944, Q9NPH9, P31371, P42830, Q9UHC6, P12235, P04085, P12643, P25063, P43490, P02708, Q13972, Q9UKU6, Q14116, P61106, Q16568, P08949, P43007, P49675, P54252, Q16643, P11487, O00560, P28482, P35318, Q15742, P30989, P10082, P51649, P12644, P01189, P43694, P15514, P50148, P98066, O43597, O76061

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GOID GO:0031328

TERM positive regulation of cellular biosynthetic process

P-VALUE 3.80108918640717e-06

CORRECTED P-VALUE 0.0064162385466553

NUM_ANNOTATIONS 44 (of 633)

ANNOTATED_GENES P16234, A2RRB4, P20809, Q12948, P18848, Q12830, Q92630, P19438, P23769, P08069, Q99967, P48552, O14944, P48431, P84022, P04085, P12643, P40425, Q9H7Z6, Q06413, P55317, P28908, P08651, Q06945, O43392, Q5T230, Q01196, Q15797, Q02930, Q9BZQ8, Q14213, Q16621, P29375, O75444, P35222, O00327, O60244, P52952, P15514, P43694, Q07687, P27797, P56211, P18850

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GOID GO:0032879

TERM regulation of localization

P-VALUE 4.81149617873809e-06

CORRECTED P-VALUE 0.0081218055497099

NUM_ANNOTATIONS 29 (of 344)

ANNOTATED_GENES P16234, Q96RU8, P20809, P50897, P22303, P62070, P78536, Q93096, P23769, P08069, P62330, P32418, Q99967, P21359, P84022, P04085, Q5SW96, P08910, P52952, Q02297, O00291, O95648, P27797, P56211, P24593, P22460, Q9ULZ3, P49841, Q16568

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GOID GO:0032879 & localization

TERM regulation of localization

P-VALUE 4.81149617873809e-06

CORRECTED P-VALUE 0.0081218055497099

NUM_ANNOTATIONS 29 (of 344)

ANNOTATED_GENES P16234, Q96RU8, P20809, P50897, P22303, P62070, P78536, Q93096, P23769, P08069, P62330, P32418, Q99967, P21359, P84022, P04085, Q5SW96, P08910, P52952, Q02297, O00291, O95648, P27797, P56211, P24593, P22460, Q9ULZ3, P49841, Q16568

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GOID GO:0009891

TERM positive regulation of biosynthetic process

P-VALUE 4.82972628598841e-06

CORRECTED P-VALUE 0.00815257797074843

NUM_ANNOTATIONS 44 (of 639)

ANNOTATED_GENES P16234, A2RRB4, P20809, Q12948, P18848, Q12830, Q92630, P19438, P23769, P08069, Q99967, P48552, O14944, P48431, P84022, P04085, P12643, P40425, Q9H7Z6, Q06413, P55317, P28908, P08651, Q06945, O43392, Q5T230, Q01196, Q15797, Q02930, Q9BZQ8, Q14213, Q16621, P29375, O75444, P35222, O00327, O60244, P52952, P15514, P43694, Q07687, P27797, P56211, P18850

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GOID GO:0006916

TERM anti-apoptosis

P-VALUE 5.24854503497037e-06

CORRECTED P-VALUE 0.00885954401902998

NUM_ANNOTATIONS 22 (of 222)

ANNOTATED_GENES P09211, Q06413, P06748, Q13075, P49675, Q12948, Q04721, O95865, O60238, Q9UBN6, O00257, P63104, Q07817, P08069, P16471, Q99967, P14625, Q14457, P52952, P04156, P11021, P14210

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GOID GO:0006112

TERM energy reserve metabolic process

P-VALUE 5.34906627774993e-06

CORRECTED P-VALUE 0.00902922387684188

NUM_ANNOTATIONS 11 (of 62)

ANNOTATED_GENES P35573, Q93100, P62140, Q92630, O95278, P46976, O95685, P06737, P13807, Q16821, P49841

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GOID GO:0005976

TERM polysaccharide metabolic process

P-VALUE 5.42491120520694e-06

CORRECTED P-VALUE 0.00915725011438932

NUM_ANNOTATIONS 14 (of 100)

ANNOTATED_GENES P35573, Q01459, Q93100, P62140, Q9NS84, Q92630, O95278, P46976, O95685, P06737, P13807, Q16821, P49841, P36222

3. Genes whose correlation vectors in cancer and non-cancer are most separated (in Euclidian sense) in the space of genes, $D_{i(s1,s2)} > 30$

Calculate FDR Yes

Gene list Uploaded file Euc_Dist_Tail_30_2224.dat_SwissProt.dat

Annotation file gene_association.goa_human

Evidence codes included IEA IEP IGI NAS IPI ND IC ISS NR RCA IDA IMP TAS

Unknown identifiers A0PJ72 Q9ULU1 Q86V69 Q6FHX0 Q05D91 Q7L3E0
O19682 A1L4Q1 A2RUM7 A0JLT9 A2RU75 Q3BBW2 Q6ZVC8 Q53EY9 Q5I0F9
Q5SQT9 Q96FZ2 Q32MI4 A0PJC9 A2IBT1 A0AUW3 A0ZXF9 Q9P164 Q05CY1
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Q9H6J7 Q12900 Q59H48 O00145 Q1PBM3 Q4LE41 Q2YDX2 Q6P3U5 O43397
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A0PJJ5 A0A5E5 Q6IBB3 Q59E96 Q9NX31 Q59G41 O60770 Q6ZV54 Q05DF0
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Q59H12 A2N4P8 A1A5C3 A2RUN2 Q9BRW1 Q53GA7 A0N5G7 Q05DM8
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Q3ZTR9 O15412 Q3KRB6 Q3LIF3 A1L1B7 Q659G6 Q6IA88 Q53FV3 Q9HB72
Q8IWS1 Q2YDX6 Q8NEZ9 A2RU93 Q549N5 Q9HB17 Q86W39 Q9NZY4
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O60498 Q9UQL0 Q6PJE6 Q14BN2 Q9H2V5 Q05CA7 Q14783 Q96BX3 Q53GX9
Q6P2M7 Q6PIX0 Q659D8 Q9BTW0 Q8WWE8 Q542Z6 Q9NUV9 Q6MZT6
Q59GH2 Q68CK3 Q9HBI5 Q54AC1 Q6IPC4 A0PJW7 A1L303 Q6NXU1 Q6FIF5
Q5CZ74 Q2TU81 Q6ZUH5 Q6P2H3 Q5XKB6 Q307T1 Q6ZUR0 Q5U3C1 O75406
Q53F49 Q24JS2 Q5GIA6 Q0VD81 Q5MJQ4 Q53EW6 Q6TDC3 Q05DV5 Q86TR4
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Q9UI61 Q68E04 Q9H051 Q71RE8 Q86V02 A1L307 A1L0S7 Q0VDJ6 Q7Z6N2
Q9BUE6 A0PJH3 Q05CT0 Q59GW9 Q17RW1 Q6AW82 Q69YM8 A0PJE4
Q3B7W8 Q9H9L4 Q6ZR23 Q2M2P3 Q54AB9 Q8N3Z4 Q6PJ46 Q53XP3 A1L180
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Q8TCR4 Q8N8E1 Q8N7I0 Q6ZRF1 Q38IJ5 Q59F90

Terms from the process ontology with p-value ≤ 0.01 .

The total number of genes used to calculate the background distribution of GO terms is 38594.

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GOID GO:0048518

TERM positive regulation of biological process

P-VALUE 3.18185191704593e-25

CORRECTED P-VALUE 5.83551641586224e-22

NUM_ANNOTATIONS 177 (of 1814)

ANNOTATED_GENES P31785, Q15306, P41182, Q9HCS4, Q9UJH8, Q04771, O00203, Q00577, Q14469, O75411, Q92736, P01137, O60238, Q04864, P48552, P39019, P31749, P78560, P16989, P43405, Q9ULZ3, P07437, P28908, P61088, Q13422, P08651, Q9Y366, P15923, Q14790, Q9BZQ8, O43557, P10071, P17275, O14497, P30556, P62330, P25942, P15153, O15085, P23396, P08238, P68871, P17096, P07948, P43307, P17535, O75940, P25025, Q03014, P50897, P18848, P10636, Q12778, O75787, P35269, P29466, P33681, O75586, Q08722, O14727, Q15788, P10914, P40425, Q14289, P62701, Q02779, P60953, Q06413, P55317, P30281, Q13207, P60981, Q9NVC6, P30273, Q9Y3A2, Q9BRP0, Q12999, P28482, P14317, P04899, O15304, Q99732, P01111, Q9GZP9, Q12906, O75489, P42226,

P19419, P08575, O75925, O15516, P55212, P29692, P16885, Q12951, Q15628, O15392, P61247, Q12981, P63165, Q13263, P25098, Q99967, O75995, Q12905, O60603, Q9H3Q1, Q02535, Q13794, O00291, Q13772, P31146, Q9P0J0, Q96GM5, P15036, Q99607, P46781, Q92838, P36955, P55209, O00468, Q14106, Q9Y3E0, Q01196, Q9C000, P17947, O15519, Q16621, P12830, P38936, P10600, P84095, P18850, P56211, Q9UK73, P46734, P35226, Q969H8, Q9Y2A4, Q04721, Q12830, P62753, P19438, P62826, P08069, Q96P20, P62324, O14781, O43847, P50570, Q9UHK0, P09619, P43490, Q13232, Q9GZY6, Q9H2K8, P68371, Q13418, Q99698, P55211, P06241, Q06187, Q06945, P15498, P51692, P62988, Q02930, P08620, Q93096, P62244, P29375, P32245, P00491, O60356, Q16611, P32519, P61586

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GOID GO:0048522

TERM positive regulation of cellular process

P-VALUE 4.58103766415084e-25

CORRECTED P-VALUE 8.40162307605264e-22

NUM_ANNOTATIONS 165 (of 1636)

ANNOTATED_GENES P31785, Q15306, P41182, Q9HCS4, Q9UJH8, Q04771, O00203, Q00577, Q14469, O75411, Q92736, P01137, O60238, Q04864, P48552, P39019, P31749, P78560, P43405, Q9ULZ3, P07437, P28908, P61088, Q13422, P08651, Q9Y366, P15923, Q14790, Q9BZQ8, O43557, P17275, O14497, P62330, P25942, P15153, O15085, P23396, P08238, P68871, P17096, P07948, P43307, P17535, O75940, P25025, Q03014, P50897, P18848, P10636, Q12778, P35269, P29466, P33681, O75586, Q08722, O14727, Q15788, P10914, P40425, Q14289, P62701, Q02779, P60953, Q06413, P55317, P30281, Q13207, P60981, Q9NVC6, P30273, Q9Y3A2, Q9BRP0, Q12999, P28482, P14317, P04899, O15304, Q99732, P01111, Q9GZP9, Q12906, O75489, P42226, P19419, P08575, O75925, O15516, P55212, P29692, Q12951, Q15628, O15392, P61247, Q12981, P63165, Q13263, Q99967, O75995, Q12905, O60603, Q9H3Q1, Q02535, Q13794, O00291, P31146, Q13772, Q9P0J0, Q96GM5, P15036, Q99607, P46781, P36955, P55209, O00468, Q9Y3E0, Q01196, P17947, O15519, Q9C000, Q16621, P38936, P10600, P84095, P18850, P56211, Q9UK73, P46734, P35226, Q969H8, Q9Y2A4, Q04721, Q12830, P62753, P19438, P62826, P08069, Q96P20, P62324, O14781, O43847, P50570, Q9UHK0, P09619, P43490, Q13232, Q9H2K8, P68371, Q13418, Q99698, P55211, Q06187, Q06945, P15498, P51692, P62988, Q02930, P08620, Q93096, P62244, P29375, P00491, O60356, Q16611, P32519, P61586

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GOID GO:0048523

TERM negative regulation of cellular process

P-VALUE 3.91286912070226e-23
CORRECTED P-VALUE 7.17620196736795e-20
NUM_ANNOTATIONS 163 (of 1675)
ANNOTATED_GENES P41182, O95379, Q9HCS4, Q12959, Q04771, P50281, Q9UFF9, Q9ULR5, P27816, Q00577, Q14469, P01137, O60238, Q9P1W9, P56545, P32320, O75427, P48552, P31749, O60936, P08910, Q12982, P25963, P16989, Q9ULZ3, Q9Y576, P50749, P06748, P28908, Q13422, P08651, Q03989, Q96KC8, Q01082, Q9BZQ8, P09429, P10071, P35227, P48736, P62330, P23396, P17096, Q13542, Q03014, P41220, O14494, P50897, O95425, P10636, Q15669, Q12778, P63104, P25705, O75563, P26045, P04179, P63279, O75190, P62277, P10914, P11309, Q9BZZ5, P35241, P11021, P55055, P60953, Q06413, P55061, Q13207, P30273, O95751, Q9BRP0, Q9UBN6, P28482, P27348, P14625, P04899, O75943, P01111, Q9NSE2, Q12906, O75489, P13693, P08575, Q12824, Q10571, Q06546, Q96BD5, P16885, Q9NQS1, P55273, O15392, P52565, Q12981, P63165, Q13263, P25098, Q99967, P05783, Q02535, P31146, Q9P0J0, Q13796, O15054, P54852, Q13075, O14519, P26651, Q9NPF2, O43251, O95865, Q14106, P31949, O95817, P17947, O15519, P50150, P52566, P38936, O14862, P10600, Q96FS4, Q8I WV1, P21580, P49768, O00499, Q04721, P61925, Q12830, P47756, Q01105, P08069, Q07820, P40763, Q15326, P62324, O14781, O75339, P23508, P14316, Q53EL6, Q01658, O15534, P41240, Q9H2K8, O75366, Q9NZU5, O60383, Q06945, P13164, P62263, O75494, P51692, P49795, P08620, Q9NPI5, O00257, P11277, O00453, Q08999, P06576, P32519, P61586

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GOID GO:0050793 & developmental process

TERM regulation of developmental process

P-VALUE 4.5773555513058e-23

CORRECTED P-VALUE 8.39487008109484e-20

NUM_ANNOTATIONS 133 (of 1228)

ANNOTATED_GENES Q14344, P31785, Q15306, P41182, Q8IXS6, P35609, O95379, Q9UJH8, Q04771, O00203, Q14469, O75411, Q92736, P01137, O60238, Q9P1W9, P31749, O60936, P78560, Q12982, P25963, P16989, P43405, Q9ULZ3, P07437, P06748, P28908, Q14790, P29992, O43557, P09429, P10071, P17275, P35227, P48736, P23396, P17535, O75940, Q03014, P50897, P10636, Q12778, P63104, P29466, P15311, P33681, O14727, P04179, O75190, P11309, Q9BZZ5, P11021, Q02779, P60953, Q06413, P55061, P30273, Q9Y3A2, Q9UBN6, P28482, P14625, O15304, P01111, O75489, P42226, P13693, P50148, Q68HC0, P08575, P55212, P16885, Q15628, P55273, Q9NQS1, O15392, P52565, P61247, Q12981, Q99967, O75995, O60603, P05783, Q02535, P99999, Q9H3Q1, Q13794, O00291, Q9P0J0, P36955, Q13075, O00468, P26651, Q9NPF2, O95865, Q14106, O95817,

Q01196, O15519, Q9C000, P38936, P10600, P42224, P10124, Q9UK73, P21580, Q9Y2A4, P49768, Q04721, P17081, P62753, P08069, Q07820, Q96P20, P62324, O14781, P50570, Q13232, P68371, Q99698, P55211, Q9NP74, Q06187, Q06945, P51692, P62988, P08620, Q9NPI5, O00257, P00491, O00453, O60356, Q16611, P61586

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GOID GO:0050793

TERM ®ulation of developmental process

P-VALUE 5.30512181127932e-23

CORRECTED P-VALUE 9.72959340188628e-20

NUM_ANNOTATIONS 133 (of 1230)

ANNOTATED_GENES Q14344, P31785, Q15306, P41182, Q8IXS6, P35609, O95379, Q9UJH8, Q04771, O00203, Q14469, O75411, Q92736, P01137, O60238, Q9P1W9, P31749, O60936, P78560, Q12982, P25963, P16989, P43405, Q9ULZ3, P07437, P06748, P28908, Q14790, P29992, O43557, P09429, P10071, P17275, P35227, P48736, P23396, P17535, O75940, Q03014, P50897, P10636, Q12778, P63104, P29466, P15311, P33681, O14727, P04179, O75190, P11309, Q9BZZ5, P11021, Q02779, P60953, Q06413, P55061, P30273, Q9Y3A2, Q9UBN6, P28482, P14625, O15304, P01111, O75489, P42226, P13693, P50148, Q68HC0, P08575, P55212, P16885, Q15628, P55273, Q9NQS1, O15392, P52565, P61247, Q12981, Q99967, O75995, O60603, P05783, Q02535, P99999, Q9H3Q1, Q13794, O00291, Q9P0J0, P36955, Q13075, O00468, P26651, Q9NPF2, O95865, Q14106, O95817, Q01196, O15519, Q9C000, P38936, P10600, P42224, P10124, Q9UK73, P21580, Q9Y2A4, P49768, Q04721, P17081, P62753, P08069, Q07820, Q96P20, P62324, O14781, P50570, Q13232, P68371, Q99698, P55211, Q9NP74, Q06187, Q06945, P51692, P62988, P08620, Q9NPI5, O00257, P00491, O00453, O60356, Q16611, P61586

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GOID GO:0012501

TERM programmed cell death

P-VALUE 4.69766243599497e-22

CORRECTED P-VALUE 8.61551290761478e-19

NUM_ANNOTATIONS 125 (of 1144)

ANNOTATED_GENES P55212, P41182, Q13177, P35609, O95379, O95816, Q04771, P16885, Q9NQS1, P55273, Q15628, O75411, Q92736, P01137, P61247, P52565, O15392, O60238, Q9P1W9, Q12981, P28331, Q99967, P31749, O60936, O60603, P05783, P61073, P78560, Q12982, P99999, Q02535, P25963, O00291, Q13794, P16989, Q9P0J0, Q9ULZ3, P07437, P51575, P06748, P28908, Q13075,

Q9NPF2, Q14790, O95865, O95817, O75807, Q9C000, O15519, O43557, P09429, P35227, P38936, P48736, P62330, P10600, P25942, P23396, P12236, P42224, P10124, Q9UK73, O75940, P21580, P25025, Q6NYC1, Q9Y2A4, P50897, P49768, Q04721, Q9HAU6, Q12778, P19438, P62753, P21127, P63104, P08069, Q96P20, Q07820, P29466, P62324, P29350, O14781, Q8IXI2, P21796, P50570, O14727, O14798, P04179, Q53EL6, O75190, P11309, Q9BZZ5, Q13232, P11021, Q14289, P68371, Q02779, Q06413, Q99698, P55211, P20333, P55061, Q06187, Q06945, P51692, P30273, Q9Y3A2, P08620, Q9UBN6, P28482, O00257, Q9UL15, P14625, O15304, O60356, P01111, Q99732, O75489, Q16611, P13693, Q68HC0, P08575, Q6NUS6, P61586

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GOID GO:0048519

TERM negative regulation of biological process

P-VALUE 5.41937282830542e-22

CORRECTED P-VALUE 9.93912976711213e-19

NUM_ANNOTATIONS 169 (of 1813)

ANNOTATED_GENES P41182, O95379, Q9HCS4, Q12959, Q04771, P50281, Q9UFF9, Q9ULR5, P27816, Q00577, Q14469, P01137, O60238, Q9P1W9, P56545, P32320, O75427, P48552, P31749, O60936, P08910, Q12982, P25963, P16989, Q9ULZ3, Q9Y576, P50749, P06748, P28908, Q13422, P08651, Q03989, Q96KC8, Q9UN86, Q01082, Q9BZQ8, P09429, P10071, P35227, P48736, P62330, P23396, P17096, Q13542, Q03014, P41220, O14494, P50897, O95425, P10636, Q15669, Q12778, P63104, P25705, O75563, P26045, P04179, P63279, O75190, P62277, P10914, P11309, Q9BZZ5, P35241, P11021, P55055, P60953, Q06413, P55061, Q13207, P30273, O95751, Q9BRP0, Q9UBN6, P28482, P27348, P14625, P04899, O75943, P01111, Q9NSE2, Q12906, O75489, P42226, P13693, P08575, Q12824, Q10571, Q06546, Q96BD5, P16885, Q9NQS1, P55273, O15392, P52565, Q12981, P63165, Q13263, P25098, Q99967, P05783, Q02535, P31146, Q9P0J0, P98179, Q13796, O15054, P36955, P54852, Q13075, P26651, O14519, Q9NPF2, O43251, O95865, Q14106, P31949, O95817, P17947, O15519, P50150, P52566, P38936, O14862, P10600, Q96FS4, Q8IWV1, P10124, P21580, P49768, O00499, Q04721, P61925, Q12830, P47756, Q01105, P08069, Q96P20, Q07820, P40763, Q15326, P62324, O14781, O75339, P23508, P14316, Q53EL6, Q01658, O15534, P41240, Q9H2K8, O75366, Q9NZU5, O60383, Q06945, P13164, P62263, O75494, P51692, P49795, P08620, Q9NPI5, O00257, P11277, O00453, Q08999, P06576, P32519, P61586

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GOID GO:0006915

TERM apoptosis

P-VALUE 7.01972471901715e-22

CORRECTED P-VALUE 1.28741751346775e-18

NUM_ANNOTATIONS 124 (of 1135)

ANNOTATED_GENES P55212, P41182, Q13177, P35609, O95379, O95816, Q04771, Q9NQS1, P55273, Q15628, O75411, Q92736, P01137, P61247, P52565, O15392, O60238, Q9P1W9, Q12981, P28331, Q99967, P31749, O60936, O60603, P05783, P61073, P78560, Q12982, P99999, Q02535, P25963, O00291, Q13794, P16989, Q9P0J0, Q9ULZ3, P07437, P51575, P06748, P28908, Q13075, Q9NPF2, Q14790, O95865, O95817, O75807, Q9C000, O15519, O43557, P09429, P35227, P38936, P48736, P62330, P10600, P25942, P23396, P12236, P42224, P10124, Q9UK73, O75940, P21580, P25025, Q6NYC1, Q9Y2A4, P50897, P49768, Q04721, Q9HAU6, Q12778, P19438, P62753, P21127, P63104, P08069, Q96P20, Q07820, P29466, P62324, P29350, O14781, Q8IXI2, P21796, P50570, O14727, O14798, P04179, Q53EL6, O75190, P11309, Q9BZZ5, Q13232, P11021, Q14289, P68371, Q02779, Q06413, Q99698, P55211, P20333, P55061, Q06187, Q06945, P51692, P30273, Q9Y3A2, P08620, Q9UBN6, P28482, O00257, Q9UL15, P14625, O15304, O60356, P01111, Q99732, O75489, Q16611, P13693, Q68HC0, P08575, Q6NUS6, P61586

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GOID GO:0043067

TERM ®ulation of programmed cell death

P-VALUE 2.13058571147905e-20

CORRECTED P-VALUE 3.90749419485258e-17

NUM_ANNOTATIONS 99 (of 828)

ANNOTATED_GENES P55212, P41182, P35609, O95379, Q04771, P16885, Q9NQS1, P55273, Q15628, O75411, Q92736, P01137, P61247, P52565, O15392, O60238, Q9P1W9, Q12981, Q99967, P31749, O60936, O60603, P05783, P78560, Q12982, P99999, Q02535, O00291, Q13794, P16989, Q9P0J0, Q9ULZ3, P07437, P06748, P28908, Q13075, Q9NPF2, Q14790, O95865, O95817, Q9C000, O15519, O43557, P09429, P35227, P38936, P48736, P10600, P23396, P42224, Q9UK73, O75940, P21580, Q9Y2A4, P50897, P49768, Q04721, Q12778, P62753, P63104, P08069, Q96P20, Q07820, P29466, P62324, O14781, P50570, O14727, P04179, O75190, P11309, Q9BZZ5, Q13232, P11021, P68371, Q02779, Q06413, Q99698, P55211, P55061, Q06187, Q06945, P51692, P30273, Q9Y3A2, P08620, Q9UBN6, P28482, O00257, P14625, O15304, O60356, P01111, O75489, Q16611, P13693, Q68HC0, P08575, P61586

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GOID GO:0043067 & programmed cell death

TERM regulation of programmed cell death

P-VALUE 2.13058571147905e-20

CORRECTED P-VALUE 3.90749419485258e-17

NUM_ANNOTATIONS 99 (of 828)

ANNOTATED_GENES P55212, P41182, P35609, O95379, Q04771, P16885, Q9NQS1, P55273, Q15628, O75411, Q92736, P01137, P61247, P52565, O15392, O60238, Q9P1W9, Q12981, Q99967, P31749, O60936, O60603, P05783, P78560, Q12982, P99999, Q02535, O00291, Q13794, P16989, Q9P0J0, Q9ULZ3, P07437, P06748, P28908, Q13075, Q9NPF2, Q14790, O95865, O95817, Q9C000, O15519, O43557, P09429, P35227, P38936, P48736, P10600, P23396, P42224, Q9UK73, O75940, P21580, Q9Y2A4, P50897, P49768, Q04721, Q12778, P62753, P63104, P08069, Q96P20, Q07820, P29466, P62324, O14781, P50570, O14727, P04179, O75190, P11309, Q9BZZ5, Q13232, P11021, P68371, Q02779, Q06413, Q99698, P55211, P55061, Q06187, Q06945, P51692, P30273, Q9Y3A2, P08620, Q9UBN6, P28482, O00257, P14625, O15304, O60356, P01111, O75489, Q16611, P13693, Q68HC0, P08575, P61586

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GOID GO:0042981

TERM regulation of apoptosis

P-VALUE 3.15814077525217e-20

CORRECTED P-VALUE 5.79203018181249e-17

NUM_ANNOTATIONS 98 (of 819)

ANNOTATED_GENES P55212, P41182, P35609, O95379, Q04771, Q9NQS1, P55273, Q15628, O75411, Q92736, P01137, P61247, P52565, O15392, O60238, Q9P1W9, Q12981, Q99967, P31749, O60936, O60603, P05783, P78560, Q12982, P99999, Q02535, O00291, Q13794, P16989, Q9P0J0, Q9ULZ3, P07437, P06748, P28908, Q13075, Q9NPF2, Q14790, O95865, O95817, Q9C000, O15519, O43557, P09429, P35227, P38936, P48736, P10600, P23396, P42224, Q9UK73, O75940, P21580, Q9Y2A4, P50897, P49768, Q04721, Q12778, P62753, P63104, P08069, Q96P20, Q07820, P29466, P62324, O14781, P50570, O14727, P04179, O75190, P11309, Q9BZZ5, Q13232, P11021, P68371, Q02779, Q06413, Q99698, P55211, P55061, Q06187, Q06945, P51692, P30273, Q9Y3A2, P08620, Q9UBN6, P28482, O00257, P14625, O15304, O60356, P01111, O75489, Q16611, P13693, Q68HC0, P08575, P61586

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GOID GO:0008219

TERM cell death

P-VALUE 3.4741158749446e-20

CORRECTED P-VALUE 6.37152851464839e-17

NUM_ANNOTATIONS 125 (of 1204)

ANNOTATED_GENES P55212, P41182, Q13177, P35609, O95379, O95816, Q04771, P16885, Q9NQS1, P55273, Q15628, O75411, Q92736, P01137, P61247, P52565, O15392, O60238, Q9P1W9, Q12981, P28331, Q99967, P31749, O60936, O60603, P05783, P61073, P78560, Q12982, P99999, Q02535, P25963, O00291, Q13794, P16989, Q9P0J0, Q9ULZ3, P07437, P51575, P06748, P28908, Q13075, Q9NPF2, Q14790, O95865, O95817, O75807, Q9C000, O15519, O43557, P09429, P35227, P38936, P48736, P62330, P10600, P25942, P23396, P12236, P42224, P10124, Q9UK73, O75940, P21580, P25025, Q6NYC1, Q9Y2A4, P50897, P49768, Q04721, Q9HAU6, Q12778, P19438, P62753, P21127, P63104, P08069, Q96P20, Q07820, P29466, P62324, P29350, O14781, Q8IXI2, P21796, P50570, O14727, O14798, P04179, Q53EL6, O75190, P11309, Q9BZZ5, Q13232, P11021, Q14289, P68371, Q02779, Q06413, Q99698, P55211, P20333, P55061, Q06187, Q06945, P51692, P30273, Q9Y3A2, P08620, Q9UBN6, P28482, O00257, Q9UL15, P14625, O15304, O60356, P01111, Q99732, O75489, Q16611, P13693, Q68HC0, P08575, Q6NUS6, P61586

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GOID GO:0016265

TERM death

P-VALUE 4.56950229683358e-20

CORRECTED P-VALUE 8.38046721239279e-17

NUM_ANNOTATIONS 125 (of 1208)

ANNOTATED_GENES P55212, P41182, Q13177, P35609, O95379, O95816, Q04771, P16885, Q9NQS1, P55273, Q15628, O75411, Q92736, P01137, P61247, P52565, O15392, O60238, Q9P1W9, Q12981, P28331, Q99967, P31749, O60936, O60603, P05783, P61073, P78560, Q12982, P99999, Q02535, P25963, O00291, Q13794, P16989, Q9P0J0, Q9ULZ3, P07437, P51575, P06748, P28908, Q13075, Q9NPF2, Q14790, O95865, O95817, O75807, Q9C000, O15519, O43557, P09429, P35227, P38936, P48736, P62330, P10600, P25942, P23396, P12236, P42224, P10124, Q9UK73, O75940, P21580, P25025, Q6NYC1, Q9Y2A4, P50897, P49768, Q04721, Q9HAU6, Q12778, P19438, P62753, P21127, P63104, P08069, Q96P20, Q07820, P29466, P62324, P29350, O14781, Q8IXI2, P21796, P50570, O14727, O14798, P04179, Q53EL6, O75190, P11309, Q9BZZ5, Q13232, P11021, Q14289, P68371, Q02779, Q06413, Q99698, P55211, P20333, P55061, Q06187, Q06945, P51692, P30273, Q9Y3A2, P08620, Q9UBN6, P28482, O00257, Q9UL15, P14625, O15304, O60356, P01111, Q99732, O75489, Q16611, P13693, Q68HC0, P08575, Q6NUS6, P61586

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GOID GO:0032502

TERM developmental process

P-VALUE 5.61462514505931e-16

CORRECTED P-VALUE 1.02972225160388e-12

NUM_ANNOTATIONS 295 (of 4393)

ANNOTATED_GENES P31785, P41182, P35609, Q99584, Q9UJH8, Q12959, O95816, Q04771, P50281, Q00577, Q14469, O75411, P40123, Q92837, O75427, P48552, Q9Y4F9, P61073, P78560, P53365, Q12982, P43405, Q9ULZ3, Q9Y576, Q9Y366, P15923, Q14790, P29992, P09429, P17275, P30556, Q07001, P25942, P15153, P23396, P12236, P08238, P09630, P07949, O75581, P07948, Q01650, P08123, Q03014, Q6NYC1, O95425, Q12778, P63104, Q9NXR1, P15311, Q8IXI2, P16157, P19338, P20290, O14798, P01100, P04179, P42768, P63146, P11309, Q9BZZ5, P35241, P62701, P60953, Q13207, Q9H0B8, P30273, Q9BRP0, P63261, Q9UBN6, P28482, P14625, O15304, Q99732, P54762, P42226, Q12968, P02452, Q7L1T6, Q13177, P16885, Q9NQS1, P61247, P19404, Q99967, Q13263, P25098, O75995, O60603, P99999, P31146, Q9P0J0, P15036, Q13796, P51575, P36955, Q01518, P26651, Q9NPF2, O95865, O75807, O15519, P52566, P07737, P10600, Q96EK5, Q04726, P10124, Q9UBI9, Q9UK73, P35226, P14649, P17081, Q04721, P19438, P62753, Q9Y657, O95238, P21127, P40763, Q07820, O14781, O60486, P21796, Q6UWC1, Q9NQ50, Q13232, O75366, Q14254, Q13418, Q9Y6A4, Q99698, P55211, Q9NP74, P06241, O75474, O60383, P62263, O60701, P51692, P62988, P08620, Q9NPI5, P55268, P29375, P00491, O60356, Q16611, P45379, Q16586, Q9Y508, Q14344, Q15306, Q8IXS6, Q9UNS2, O95379, Q9HCS4, O00203, P05549, P55287, P01137, Q92736, O60238, Q9P1W9, P39019, P31749, O60936, Q08117, Q9NZG7, P25963, P16989, P13611, P12111, P07585, P07437, Q04725, P06748, P28908, P29373, Q13422, O43557, P10071, P35227, P48736, P62330, O15513, O15085, P17535, O75940, P25025, P50897, P23771, P10636, Q96E22, Q15669, P39059, Q16671, P25705, P29466, P33681, P08631, O14727, P10914, O75190, P40425, Q14289, P11021, Q02779, Q92882, Q06413, P20333, P55317, P55061, Q9Y3A2, Q14494, P14317, Q14689, Q9UL15, Q15303, P01111, O75489, P50148, P13693, Q68HC0, Q9Y5P3, P08575, Q6NUS6, Q12824, Q01543, P55212, Q06546, Q12951, Q15628, P55273, P52565, O15392, P40424, Q12981, P28331, Q9UGM1, Q14118, P08727, P12757, P05783, Q9H3Q1, Q02535, Q13794, O00291, P02686, Q13772, P13612, Q92838, Q13075, O00468, Q14106, O95817, Q01196, P17947, Q9C000, O00560, P34820, Q16621, P38936, P42224, Q01453, P21580, P47914, Q9ULV1, Q14738, Q9Y2A4, P49768, O00499, Q12830, P19971, P55327, Q9HAU6, P08069, Q96P20, P62324, P29350, O43847, P50570, Q53EL6, Q9H3M7, P68371,

Q06187, Q06945, P28289, Q93096, O00257, O00453, P25940, Q13277, P06576, P61586

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GOID GO:0043069

TERM negative regulation of programmed cell death

P-VALUE 7.15483163756854e-15

CORRECTED P-VALUE 1.31219612233007e-11

NUM_ANNOTATIONS 52 (of 354)

ANNOTATED_GENES P41182, P21580, O95379, Q04771, P49768, P50897, Q04721, P16885, Q12778, Q9NQS1, P55273, P52565, O15392, O60238, Q9P1W9, Q12981, P63104, P08069, Q07820, Q99967, O14781, P31749, O60936, P05783, Q12982, P16989, P04179, P11309, Q9BZZ5, P11021, Q06413, P06748, P55061, Q13075, Q9NPF2, Q06945, O95865, P51692, O95817, P30273, P08620, O15519, P09429, Q9UBN6, O00257, P35227, P38936, P48736, P14625, P01111, P13693, P61586

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GOID GO:0008380

TERM RNA splicing

P-VALUE 1.32337813707703e-14

CORRECTED P-VALUE 2.42707550339927e-11

NUM_ANNOTATIONS 43 (of 256)

ANNOTATED_GENES P07910, O75940, P09651, P62314, Q13427, Q9UK45, P09234, Q15287, Q9BWJ5, P38159, Q01081, P23246, P11940, P14678, P61978, Q92620, P84103, Q15233, O60936, Q13595, P26599, Q15007, P52272, P62277, P31942, Q13247, Q00839, O43251, O75494, Q8IYB3, P61326, P31943, Q15427, O00148, P55769, Q96MU7, Q16629, Q15459, P17844, O60506, P62304, Q13243, P62995

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GOID GO:0043066

TERM negative regulation of apoptosis

P-VALUE 1.60336202800729e-14

CORRECTED P-VALUE 2.94056595936537e-11

NUM_ANNOTATIONS 51 (of 349)

ANNOTATED_GENES P41182, P21580, O95379, Q04771, P49768, P50897, Q04721, Q12778, Q9NQS1, P55273, P52565, O15392, O60238, Q9P1W9, Q12981, P63104, P08069, Q07820, Q99967, O14781, P31749, O60936, P05783, Q12982, P16989, P04179, P11309, Q9BZZ5, P11021, Q06413, P06748, P55061, Q13075,

Q9NPF2, Q06945, O95865, P51692, O95817, P30273, P08620, O15519, P09429, Q9UBN6, P35227, O00257, P38936, P48736, P14625, P01111, P13693, P61586

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GOID GO:0006396

TERM RNA processing

P-VALUE 1.07296685901799e-13

CORRECTED P-VALUE 1.96782121943899e-10

NUM_ANNOTATIONS 70 (of 616)

ANNOTATED_GENES Q32P41, P09651, P62314, Q13427, P09234, Q15287, Q01081, P23246, Q9NPE3, P14678, P61978, P39019, O14979, O60936, Q13595, Q14493, O43791, P26599, Q15007, P62857, P62249, P52272, P98179, Q13247, O43251, P61326, Q8IYB3, Q14103, Q15427, P62913, Q96MU7, P62081, P17844, Q15459, O60506, Q6NUM6, P51003, P62304, Q13243, P07910, O75940, Q9NV88, P29558, P62753, Q9UK45, Q9BWJ5, P38159, P11940, P21127, Q15233, P84103, Q92620, Q9UHK0, Q13310, P62847, P62277, P31942, P18124, Q00839, P18077, Q75QN2, P62263, O75494, Q9Y3A2, P08708, P31943, O00148, P55769, Q16629, P62995

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GOID GO:0016043

TERM cellular component organization

P-VALUE 2.84316502907682e-13

CORRECTED P-VALUE 5.21436466332688e-10

NUM_ANNOTATIONS 207 (of 2933)

ANNOTATED_GENES O15511, Q14344, P41182, O95931, Q8IXS6, P35609, P98171, Q9HCS4, Q9UJH8, Q12959, P62314, O00203, Q9ULR5, P27816, Q92673, P40123, O00161, P01137, O60739, Q9P1W9, Q96T51, O60896, O94953, P32320, P46782, P39019, P31749, O15145, O15371, P61073, P53365, P68431, P05388, P43405, P07437, P06748, O95405, P61088, Q15545, Q01082, Q9H074, Q13596, P09429, O14497, P35227, P41567, P62330, Q9BPX5, P25942, P15153, O15085, P23396, P62081, Q15459, O75581, P17096, P62304, P0C0S5, Q13542, O75940, P08123, Q9Y221, Q86UE8, Q6NYC1, O43516, O43747, P50897, O95425, P10636, Q9H902, P35269, Q15056, Q9P0N8, Q9NXR1, O75563, P15311, P68363, P16157, O00303, P04179, P42768, P63146, P35241, O75251, P55010, Q14289, P61158, P60953, O75164, P56270, P16104, Q12887, Q9Y5J9, P60981, Q9Y6X1, Q9NVC6, P30273, Q9Y3A2, P08708, P63261, P55769, Q9UHA3, P01111, Q9H8Y8, O75582, P02452, Q12824, Q93077, P50750, O00505, Q15014, Q96BD5, P09234, P61247, Q12981, P63165, O00628, Q9NPE3, Q14118, Q13263, P08727, P06730, Q07157, P12235, Q30201, Q93079, Q9H3Q1, P99999, P62857, Q13794, O00291, P62249,

P31146, O14646, Q9P0J0, Q96GM5, Q9H4M9, Q13247, Q13796, O15054, Q9UBK9, P55209, O00468, Q01518, O14925, O15144, P62913, Q16621, O00560, Q9H853, P07737, Q15642, P10600, P32121, P51149, O15533, Q96FS4, P08237, Q9P0V3, Q13243, P10124, P35226, O00499, P17081, Q12830, P19971, P62753, P84243, P47756, Q01105, P08069, Q96P20, O14781, O43847, P50570, P62847, P68371, O75366, P18124, Q13418, P13498, O43823, Q99698, P68366, Q9NP74, P11717, P18077, O95466, O60383, O75494, P15498, P62263, Q92522, P62988, P28289, O00257, P55268, P11277, P29375, O60763, O00453, P25940, Q16611, Q13277, P30566, Q08999, P61586

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GOID GO:0006091

TERM generation of precursor metabolites and energy

P-VALUE 1.37924188449173e-12

CORRECTED P-VALUE 2.52952961615783e-09

NUM_ANNOTATIONS 62 (of 537)

ANNOTATED_GENES P35573, O75746, O75390, P62140, P04406, P31930, P08559, P06737, P21281, P13807, P10515, Q9UQK1, P28331, O95169, P25705, P14927, P19404, Q13423, P49447, P27449, P31749, P40926, P48201, P12235, P99999, O43674, P51970, P18859, P04179, P47985, Q9P0J0, O75251, P11177, P07919, P05496, P40925, P13498, Q00325, P50213, P21912, O15239, P22695, Q12887, Q13011, O00483, P09669, O75306, Q06055, O75964, P17174, O43837, O43676, P08237, O95278, O75489, P10109, P15954, Q12968, Q16821, P06576, Q7L1T6, P13073

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GOID GO:0051094

TERM positive regulation of developmental process

P-VALUE 1.41142020408993e-12

CORRECTED P-VALUE 2.58854465430093e-09

NUM_ANNOTATIONS 65 (of 579)

ANNOTATED_GENES P31785, P55212, P41182, Q9UJH8, Q04771, O00203, Q15628, O75411, Q92736, P01137, P61247, O60238, Q12981, O75995, O60603, P78560, Q9H3Q1, Q02535, O00291, Q13794, P43405, Q9P0J0, Q9ULZ3, P07437, P28908, P36955, Q14106, Q01196, Q9C000, O15519, O43557, P17275, P38936, P10600, P23396, P17535, Q9UK73, O75940, Q9Y2A4, Q04721, P10636, P62753, Q96P20, P62324, P33681, O14781, P50570, O14727, Q13232, P68371, Q02779, Q99698, P60953, P55211, Q06187, Q06945, P51692, Q9Y3A2, P28482, P00491, O15304, O60356, Q16611, O75489, P08575

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GOID GO:0051093

TERM negative regulation of developmental process

P-VALUE 1.92233051769106e-12

CORRECTED P-VALUE 3.5255541694454e-09

NUM_ANNOTATIONS 63 (of 555)

ANNOTATED_GENES P41182, P21580, Q03014, O95379, Q04771, P49768, P50897, Q04721, P16885, Q12778, Q9NQ51, P55273, Q14469, P01137, P52565, O15392, O60238, Q9P1W9, Q12981, P63104, P08069, Q07820, Q99967, O14781, P31749, O60936, P05783, Q12982, P25963, P16989, P04179, P11309, Q9BZZ5, P11021, Q06413, P06748, P36955, Q13075, P55061, P26651, Q9NPF2, Q06945, O95865, Q14106, P51692, P30273, O95817, P08620, Q9NPI5, O15519, P09429, P10071, Q9UBN6, P28482, O00257, P35227, P38936, P48736, P14625, P01111, P13693, P10124, P61586

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GOID GO:XXXXXXX

TERM unannotated

P-VALUE 9.19497787341043e-12

CORRECTED P-VALUE 1.68635894198347e-08

NUM_ANNOTATIONS 610 (of 11418)

ANNOTATED_GENES Q9UHT2, A2RRP5, Q2YDB1, O00214, A1L389, Q3LIF3, Q96FZ2, A0AV96, P35268, Q3B7K0, P13639, P62851, Q68CU4, O75391, Q7Z4X2, Q59F90, Q6ZUH5, A1Y9B3, P24311, Q8NG11, Q6IN92, O43417, Q561W3, Q14515, A0JLS9, Q9BTL4, Q54AB9, Q9BTW0, Q59E96, A0ZXF9, Q9HD34, Q9H993, Q8N3Z4, Q9NUV9, Q8IUQ3, A2RUD1, A0AUL4, Q59H12, Q9BUJ0, Q59FN6, Q96D70, Q4G0E1, Q5I0F9, O14974, Q86XV3, Q6P0N0, Q08AF4, Q15454, Q3BBV0, Q658I8, Q49A36, A0PJ72, Q92901, A2RRR6, A0JLP4, A2RUS2, A2RRB5, A0JLT6, Q05DQ0, Q6N040, Q6MZV4, O60838, Q5D035, A2RRA7, P12318, Q6GU34, Q549N5, Q6MZT6, Q9UBW5, Q08AD1, Q9NUE0, Q6ZR23, Q6Y7W6, O94876, Q17RZ5, Q9BSB4, Q54AC1, Q05DF0, O95037, P62750, Q2YDX6, Q86TR4, A0P JW7, Q53HQ1, O75204, A1A584, O15014, Q14783, Q05CA2, Q0P5W4, Q9Y2B0, Q3BBW2, Q13239, A0PJA2, Q7Z5Q8, Q96CS3, Q1PBM3, Q53T26, Q5T9H0, Q5W0A3, P48723, Q68CT8, Q53EM9, Q9H6J7, Q32MI4, Q9NZY4, Q9H871, Q6NXU1, Q86V13, Q6ZWB7, Q6P2H3, O43397, Q59GL6, Q07020, Q13536, P63098, A2N4P8, Q53FP3, A0A4R1, A0JP21, A2VCK8, Q336F4, Q96F83, A0N5G7, Q59F22, Q59FR3, Q86V02, O60770, Q49AE1, Q9H9L4, A0PJC9, Q5MIZ7, Q6MZY9, Q0D2P1, Q659F4, P78359, Q53EY9, Q53FW8, Q6ZRC7, Q96EW2, Q6IPC4, P61165, Q6IBT0, A2RUM7, Q53F49, Q9P2W6, Q68E04, Q5HYI6, Q16577, Q2M389, P48763, Q6ZVC8, Q5SQT9, P39023,

Q58WW2, Q9HB17, Q7Z5Q3, Q5T1V4, Q9NS11, Q5TD55, Q3LIB6, O75054, Q549M4, Q0VGC6, Q59FY1, Q69YM8, Q9P2E5, Q86V69, O75368, Q15038, Q14157, Q5U3C1, Q2M2P3, Q7L3E0, A2RRB9, Q59H48, O60756, Q8IXX5, Q5CZ74, A1DZ74, Q8IWS1, Q9BUE6, Q9NRP2, Q6ZSB8, A1L454, P15509, Q53GI5, Q3YAD0, Q9Y4F3, A1L303, P62699, A2RQR6, Q6DKJ0, O75112, Q6ZMB4, O75785, O60650, Q92521, Q6S5B2, Q8N7M6, O75323, Q17RW1, A2VCL5, P62945, A1L1B7, Q6ZUA4, Q54AC0, Q6AW82, Q53H93, Q19CC6, Q6MZG8, Q7Z6N2, O43493, O94935, A0PJE4, O60927, Q3B7W8, P49207, Q5VYS8, O95276, Q5H9S3, Q96KC3, Q8WWE8, Q2M2H3, Q7L591, Q546E0, A1L180, O15321, Q59G34, Q59F66, O75165, Q05CP8, Q6ICC1, Q6PIX0, A4FTW3, P62269, Q6P3U5, O95858, Q12841, Q8WYG8, O15026, Q9HCP4, Q96IP9, Q9GZW2, A2RRC2, Q05BX2, Q9H910, Q3ZCS4, A1L186, Q9NZ81, Q12966, A0PJJ5, A0N6Y5, Q9H079, Q6ZV54, Q6ZNS4, Q59GH2, Q96K99, Q38IJ5, Q9UQL0, A0PJ51, Q0VGB5, A0T1T0, Q9H6V5, Q6MZU4, Q86XN7, A0AVH1, A1L0W4, Q32P56, O60310, Q659G6, Q9BQS8, Q14BM2, Q9BV81, Q3L6K5, Q9P0F3, Q542Z6, Q0P618, Q2VPA3, Q68CX2, P48454, A1L1A9, Q6PJE6, Q6TDC3, A1A5C3, Q05CT0, Q9P199, P36578, Q0IIN7, Q6PJ46, A3KME8, O43567, Q5I0G1, Q9NQL2, Q86Z03, Q05CI5, Q96BX3, Q9NPN3, A1L0S7, A0PJ82, Q6IAN3, Q4LE52, O94928, Q5XG91, A1L1B9, Q53EW6, Q6PJR6, A0AUW3, Q96C19, Q9NX31, Q53YP0, Q9H8U3, Q04842, Q8N0W5, Q05BE6, Q1WWL6, Q7Z585, Q9P164, Q6N0B1, P20674, Q86W39, Q53F39, A0PJ75, Q9BT23, Q4LE41, Q59G41, Q9UJ78, Q86XZ4, P11234, Q9H0V5, Q96N19, A2IBT1, Q503B5, Q9H8L3, Q8NDC0, A1L159, A1L307, Q8IZQ1, A1JUI9, Q6QIX4, Q0VGE4, Q9BRW1, Q68DB0, Q96GC9, A0PJG2, Q6P2M7, Q68CK3, Q9BU79, P62899, Q49AG5, Q8N8E1, Q6PCB0, Q6UXG2, Q53FV3, Q05CY1, Q05DH2, P50290, Q05DM8, P62891, Q7Z422, Q2YDX2, Q8NEZ9, A0SEH4, Q05DV5, Q13145, Q05C06, Q9BW21, Q53XP3, Q59ED6, Q8IUI8, Q69YJ5, P60006, Q6FHY4, Q6P2R5, Q6ZRF1, Q6IBI8, A2RRL9, Q49AG2, Q3KQV7, A1L3W2, P62917, Q6IAR2, Q9H8J5, Q8TCR4, Q9BW85, Q8N3P4, O15040, O00165, Q9H8S9, Q14BN2, O94945, Q71RE8, P46783, Q59HE8, Q2TU81, Q08AK7, Q15040, A2RRD3, P61927, Q659F8, Q4KN17, Q4W4X8, O75406, P05114, Q8NDT0, A2RTY9, A2TJK5, A1L199, A2RTZ3, A0JLT3, P42766, Q9H3L0, Q6ZS17, Q68VJ4, A1L4Q1, Q15053, O94820, Q9BVK8, Q6ZW32, P62888, Q05BL1, P62266, O00145, Q7Z345, Q0VD81, Q49AF1, Q59GW9, O60321, Q6ZW10, A2RRM2, O95950, Q8TBE5, Q4ZG56, A0PJH3, Q08ET8, Q15447, Q7Z4L4, Q9BTE1, Q24JS4, A2RU15, Q53GA7, Q12900, Q59EU6, Q9HBI5, Q9P0N2, Q0VD96, Q6FHX0, Q96F15, Q566Q2, P61313, Q8IX05, O02922, P63220, Q5XKB6, Q96AJ1, A2IXV4, Q9ULU1, P14406, Q9H0Q0, Q0P646, P63244, Q6EHZ2, Q6IPZ0, O00547, P60866, A2VDF2, O15412, O75141, Q8N7I0, A4CZ08, Q6TV07, Q549M8, Q9H2V5, A0PJ71, Q6ZSJ2, A2RU75, Q53GX9, P49006, P02545, Q05C49, O00236, Q540G1, O43795, Q96IY7, Q66K30,

Q5D0K4, Q68EN7, P40429, A2RUN2, P18621, Q6ZMY8, Q53F40, Q9BSH9, Q9HC03, A1L0V1, Q6IBB3, Q9GZZ7, Q6NYC6, Q9Y247, P46776, A2RU93, Q8N8Q9, P62273, Q53G27, Q9BXL8, A0JLT9, Q13425, Q13410, Q6IN85, O75139, A2RRE2, Q3B7K5, Q659D8, O60498, A1A528, Q9Y6H1, Q92478, Q96JI7, Q9BXS2, A0JLU4, O02923, Q9HAI6, Q14693, Q9HB72, A2RRQ2, Q15532, Q59FS0, Q53F28, Q6FIF5, A0A5E5, Q658M8, Q9H9V4, Q05BS8, O95645, P15941, A0PJD1, Q96I57, A0MWC9, Q14CS0, Q0VDJ6, Q9UI61, Q3ZTT3, P25398, Q99627, O76095, Q0IJ49, Q6ZWT7, Q6ZSC8, Q9P0V8, O75071, A1L3W4, Q59H22, O95608, Q53GW4, A2RU51, Q05CA7, P57737, Q569H2, Q9BUA6, Q6TFL4, Q3ZTR9, Q02543, A2RU94, Q6AWB6, Q9H051, P27635, Q9BW72, Q9H4A6, Q05BP9, Q08AL5, Q15789, A2N6W9, P46779, O95704, Q53GD1, Q3ZCM5, Q63HJ6, Q96GX3, O00478, Q04197, O19682, Q5MJQ4, O60268, Q307T1, A2NHL8, Q8N2J9, A1L1A2, Q5YLC1, A1L469, Q53F37, P15880, O95359, Q59EV5, A1YBP2, Q5GIA6, Q24JS2, A0N0L5, Q8NHP6, P26373, Q6ZUR0, A1KYQ8, Q9UMY1, Q3KRB6, A2RU67, Q05D91, Q6IA88, P62241, Q53F25, Q07108, Q4V9L7

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GOID GO:0043065

TERM positive regulation of apoptosis

P-VALUE 2.71296004434145e-11

CORRECTED P-VALUE 4.97556872132221e-08

NUM_ANNOTATIONS 47 (of 370)

ANNOTATED_GENES Q9UK73, P55212, P41182, O75940, Q9Y2A4, Q04721, Q15628, P62753, O75411, Q92736, P01137, P61247, O60238, Q12981, Q96P20, O14781, O60603, P50570, P78560, Q02535, O14727, O00291, Q13794, Q9P0J0, Q13232, Q9ULZ3, P68371, P07437, Q02779, Q99698, P55211, P28908, Q06187, Q06945, Q9Y3A2, Q9C000, O43557, O15519, P28482, P38936, P10600, O15304, O60356, P23396, Q16611, O75489, P08575

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GOID GO:0043068

TERM positive regulation of programmed cell death

P-VALUE 3.94405154021292e-11

CORRECTED P-VALUE 7.2333905247505e-08

NUM_ANNOTATIONS 47 (of 374)

ANNOTATED_GENES Q9UK73, P55212, P41182, O75940, Q9Y2A4, Q04721, Q15628, P62753, O75411, Q92736, P01137, P61247, O60238, Q12981, Q96P20, O14781, O60603, P50570, P78560, Q02535, O14727, O00291, Q13794, Q9P0J0, Q13232, Q9ULZ3, P68371, P07437, Q02779, Q99698, P55211, P28908, Q06187,

Q06945, Q9Y3A2, Q9C000, O43557, O15519, P28482, P38936, P10600, O15304, O60356, P23396, Q16611, O75489, P08575

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GOID GO:0031325

TERM positive regulation of cellular metabolic process

P-VALUE 6.90241248688416e-11

CORRECTED P-VALUE 1.26590245009455e-07

NUM_ANNOTATIONS 72 (of 738)

ANNOTATED_GENES Q15306, Q9HCS4, Q04771, Q12951, P01137, Q04864, Q99967, Q13263, P48552, P31749, Q12905, Q13772, P43405, Q96GM5, P15036, Q99607, P28908, P61088, O00468, Q13422, P08651, Q9Y366, P15923, Q01196, Q9BZQ8, P17947, Q16621, O14497, P62330, O15085, P08238, P68871, P17096, P07948, P18850, P56211, P46734, Q03014, P18848, P10636, Q12830, Q12778, P19438, P35269, P62826, P08069, P33681, O75586, O43847, Q9UHK0, Q15788, P10914, P40425, P62701, Q06413, P55317, P30281, Q06945, P51692, P60981, Q9NVC6, P62988, Q02930, Q9BRP0, P14317, P29375, P42226, Q12906, P19419, O75925, O15516, P32519

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GOID GO:0051128

TERM regulation of cellular component organization

P-VALUE 7.4808571802439e-11

CORRECTED P-VALUE 1.37198920685673e-07

NUM_ANNOTATIONS 47 (of 381)

ANNOTATED_GENES O15511, Q14344, Q8IXS6, Q86UE8, Q9UJH8, O95425, P50897, P17081, P10636, Q9ULR5, P27816, P01137, O60739, P47756, Q15056, Q01105, P63165, P15311, O15145, O15371, O00303, Q9H3Q1, O00291, P31146, P35241, P55010, P61158, Q13796, O75366, P60953, P61088, Q9NP74, O00468, P60981, Q01082, P30273, P62988, P09429, O15144, P11277, P41567, P62330, Q9BPX5, P10600, O00453, P17096, Q13542

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GOID GO:0006366

TERM transcription from RNA polymerase II promoter

P-VALUE 8.14280843952534e-11

CORRECTED P-VALUE 1.49339106780895e-07

NUM_ANNOTATIONS 83 (of 912)

ANNOTATED_GENES P50750, P41182, Q06546, Q9HCS4, Q96BD5, Q06547, Q14469, P05549, P01137, Q16633, Q99967, Q13263, P48552, P12757, Q02535,

P16989, O14646, Q96GM5, Q99607, O15054, Q15545, O00472, O00468, Q13422, P08651, Q01196, P17947, P09429, Q16621, P17275, P35227, P07737, P61244, P42224, P09630, P18850, P17535, P49716, Q03014, P23511, P23771, P18848, P61925, Q12830, Q12778, P19438, P35269, P40763, Q15326, O75586, Q9UHK0, P20290, P14316, P01100, P04179, Q01658, P10914, P40425, P53999, Q92754, P50549, Q06413, Q9NZU5, P55317, P56270, P62263, P51692, Q13207, Q9NVC6, Q02930, Q14494, O00422, P29375, Q99732, P42226, P19419, Q14241, Q12968, P51532, P24468, O15516, P32519, Q12824

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GOID GO:0032268

TERM regulation of cellular protein metabolic process

P-VALUE 1.56772329075638e-10

CORRECTED P-VALUE 2.8752045152472e-07

NUM_ANNOTATIONS 46 (of 376)

ANNOTATED_GENES O15511, O95425, P10636, Q9ULR5, P27816, P01137, O60739, P47756, Q15056, Q01105, P46782, P33681, P31749, P06730, Q8NEJ9, O15145, O43847, O15371, O00303, P26045, P43405, Q9P0J0, P35241, P55010, P62701, P61158, Q13796, O75366, P62341, P61088, Q9Y366, P30281, Q96KC8, P60981, Q01082, Q9H074, O75807, Q9BZQ8, O15144, P11277, P41567, P14317, P62330, Q9BPX5, P07948, Q13542

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GOID GO:0015980

TERM energy derivation by oxidation of organic compounds

P-VALUE 1.87949970782168e-10

CORRECTED P-VALUE 3.44700246414497e-07

NUM_ANNOTATIONS 26 (of 139)

ANNOTATED_GENES P35573, P07919, P40925, O75390, P21912, P50213, P62140, P22695, Q12887, P31930, P06737, P13807, Q9UQK1, P28331, P14927, Q13423, P17174, O43837, P31749, P40926, P08237, O95278, P99999, Q12968, Q16821, P11177

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GOID GO:0006917

TERM induction of apoptosis

P-VALUE 2.27130463787685e-10

CORRECTED P-VALUE 4.16557270586615e-07

NUM_ANNOTATIONS 40 (of 302)

ANNOTATED_GENES Q9UK73, P55212, O75940, Q9Y2A4, Q04721, Q15628, O75411, Q92736, P61247, P01137, O60238, Q12981, Q96P20, O14781, O60603, P78560, O14727, Q13794, O00291, Q9P0J0, Q13232, Q9ULZ3, P68371, P07437, Q02779, Q99698, Q06187, Q9Y3A2, O43557, O15519, Q9C000, P28482, P38936, P10600, O15304, O60356, P23396, Q16611, O75489, P08575

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GOID GO:0012502

TERM induction of programmed cell death

P-VALUE 2.51097513766974e-10

CORRECTED P-VALUE 4.6051284024863e-07

NUM_ANNOTATIONS 40 (of 303)

ANNOTATED_GENES Q9UK73, P55212, O75940, Q9Y2A4, Q04721, Q15628, O75411, Q92736, P61247, P01137, O60238, Q12981, Q96P20, O14781, O60603, P78560, O14727, Q13794, O00291, Q9P0J0, Q13232, Q9ULZ3, P68371, P07437, Q02779, Q99698, Q06187, Q9Y3A2, O43557, O15519, Q9C000, P28482, P38936, P10600, O15304, O60356, P23396, Q16611, O75489, P08575

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GOID GO:0044419

TERM interspecies interaction between organisms

P-VALUE 2.51097513766974e-10

CORRECTED P-VALUE 4.6051284024863e-07

NUM_ANNOTATIONS 40 (of 303)

ANNOTATED_GENES P31785, Q13177, Q12959, O00499, P19438, P01137, O60238, Q15056, P62826, P40763, P61978, P33681, O75970, P27449, P08727, P21796, P06730, P08631, O00308, P05783, P61073, P12235, P25963, P05388, P63279, P43405, O75164, P06241, O15519, P28482, P53618, O00571, O15304, P12236, O60506, P42224, P05141, P07948, P17096, Q12824

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GOID GO:0009893

TERM positive regulation of metabolic process

P-VALUE 2.87846874890324e-10

CORRECTED P-VALUE 5.27911168548855e-07

NUM_ANNOTATIONS 72 (of 762)

ANNOTATED_GENES Q15306, Q9HCS4, Q04771, Q12951, P01137, Q04864, Q99967, Q13263, P48552, P31749, Q12905, Q13772, P43405, Q96GM5, P15036, Q99607, P28908, P61088, O00468, Q13422, P08651, Q9Y366, P15923, Q01196, Q9BZQ8, P17947, Q16621, O14497, P62330, O15085, P08238, P68871, P17096,

P07948, P18850, P56211, P46734, Q03014, P18848, P10636, Q12830, Q12778, P19438, P35269, P62826, P08069, P33681, O75586, O43847, Q9UHK0, Q15788, P10914, P40425, P62701, Q06413, P55317, P30281, Q06945, P51692, P60981, Q9NVC6, P62988, Q02930, Q9BRP0, P14317, P29375, P42226, Q12906, P19419, O75925, O15516, P32519

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GOID GO:0008283

TERM cell proliferation

P-VALUE 3.18967831901645e-10

CORRECTED P-VALUE 5.84987003707617e-07

NUM_ANNOTATIONS 94 (of 1118)

ANNOTATED_GENES P50750, Q15555, P41182, P09758, Q12959, P50281, Q9UFF9, P55273, Q00577, Q14469, O75411, P01137, Q9P1W9, P56545, O75995, P61073, P25963, P31146, P43405, P40818, Q99607, P46781, P06748, P55209, P28908, P36955, P54852, Q9NPF2, O43251, Q14106, P31949, O43557, P10071, P38936, P49759, P30556, P10600, P25942, Q96FS4, P15153, P84095, P43307, P07948, P35226, Q03014, P25025, Q969H8, O14494, O00499, Q04721, P33552, Q12778, P21127, P25705, P42677, P08069, P62324, Q15326, O75563, O14781, O43847, P09619, P43490, Q08722, P14316, P04179, P53350, P11309, P41240, Q14289, P62701, Q13418, O75474, P13164, Q06945, P51692, Q13207, O95751, P08620, Q9BRP0, Q12999, P47974, P62244, P14317, P00491, O00453, P04899, Q15303, P01111, Q9GZP9, P42226, Q16611, P08575, Q12824

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GOID GO:0043933

TERM macromolecular complex subunit organization

P-VALUE 3.32990960454719e-10

CORRECTED P-VALUE 6.10705421473954e-07

NUM_ANNOTATIONS 88 (of 1020)

ANNOTATED_GENES Q93077, O15511, P50750, O00505, P35609, P62314, Q9ULR5, P27816, O60739, P61247, P63165, P32320, P46782, Q14118, P06730, O15145, O15371, Q07157, Q93079, Q30201, P68431, O00291, P31146, P43405, P07437, Q13247, Q13796, P06748, P55209, O95405, Q15545, O00468, Q01082, Q9H074, O15144, P09429, Q16621, Q9H853, P41567, P62330, Q9BPX5, P25942, O15533, P23396, P08237, Q15459, P17096, P0C0S5, P62304, Q13243, Q13542, O75940, Q9Y221, O43516, O95425, P10636, P84243, P35269, P47756, Q15056, Q01105, P08069, Q96P20, O75563, P68363, O00303, P42768, P35241, O75251, Q14289, P55010, P61158, O75366, P68371, P13498, P60953, P68366, P16104,

P56270, Q12887, O75494, P62263, P60981, Q92522, Q9NVC6, P08708, P11277, P30566

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GOID GO:0010604

TERM +positive regulation of macromolecule metabolic process

P-VALUE 4.17602369918893e-10

CORRECTED P-VALUE 7.65882746431251e-07

NUM_ANNOTATIONS 69 (of 722)

ANNOTATED_GENES Q15306, Q9HCS4, Q04771, Q12951, P01137, Q04864, Q99967, Q13263, P48552, P31749, Q12905, Q13772, P43405, Q96GM5, P15036, Q99607, P28908, P61088, O00468, Q13422, P08651, Q9Y366, P15923, Q01196, Q9BZQ8, P17947, Q16621, O14497, P62330, O15085, P17096, P07948, P18850, P46734, Q03014, P18848, P10636, Q12830, Q12778, P19438, P35269, P62826, P08069, P33681, O75586, O43847, Q9UHK0, Q15788, P10914, P40425, P62701, Q06413, P55317, P30281, Q06945, P51692, P60981, Q9NVC6, P62988, Q02930, Q9BRP0, P14317, P29375, P42226, Q12906, P19419, O15516, O75925, P32519

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GOID GO:0010604 + macromolecule metabolic process

TERM positive regulation of macromolecule metabolic process

P-VALUE 4.17602369918893e-10

CORRECTED P-VALUE 7.65882746431251e-07

NUM_ANNOTATIONS 69 (of 722)

ANNOTATED_GENES Q15306, Q9HCS4, Q04771, Q12951, P01137, Q04864, Q99967, Q13263, P48552, P31749, Q12905, Q13772, P43405, Q96GM5, P15036, Q99607, P28908, P61088, O00468, Q13422, P08651, Q9Y366, P15923, Q01196, Q9BZQ8, P17947, Q16621, O14497, P62330, O15085, P17096, P07948, P18850, P46734, Q03014, P18848, P10636, Q12830, Q12778, P19438, P35269, P62826, P08069, P33681, O75586, O43847, Q9UHK0, Q15788, P10914, P40425, P62701, Q06413, P55317, P30281, Q06945, P51692, P60981, Q9NVC6, P62988, Q02930, Q9BRP0, P14317, P29375, P42226, Q12906, P19419, O15516, O75925, P32519

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GOID GO:0006916

TERM anti-apoptosis

P-VALUE 4.23483149775744e-10

CORRECTED P-VALUE 7.76668096688714e-07

NUM_ANNOTATIONS 33 (of 222)

ANNOTATED_GENES P21580, O95379, P49768, Q04721, Q12778, Q9NQS1, P55273, O15392, P52565, O60238, Q9P1W9, Q12981, P63104, P08069, Q07820, Q99967, P31749, O60936, Q12982, Q9BZZ5, P11021, P06748, Q06413, Q13075, O95865, P51692, O95817, P09429, O15519, O00257, Q9UBN6, P14625, P13693

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GOID GO:0042274

TERM ribosomal small subunit biogenesis

P-VALUE 4.38044857381776e-10

CORRECTED P-VALUE 8.03374268438177e-07

NUM_ANNOTATIONS 8 (of 10)

ANNOTATED_GENES P62753, P62857, P39019, P62847, P08708, P62249, P62081, P62263

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GOID GO:0031328

TERM positive regulation of cellular biosynthetic process

P-VALUE 4.82091173713529e-10

CORRECTED P-VALUE 8.84155212590612e-07

NUM_ANNOTATIONS 63 (of 633)

ANNOTATED_GENES P46734, Q15306, Q03014, Q9HCS4, Q04771, Q12830, P18848, Q12951, Q12778, P19438, P01137, P35269, Q04864, P62826, P08069, Q99967, Q13263, P48552, P33681, P31749, O75586, Q12905, Q9UHK0, Q15788, Q13772, P43405, P10914, P40425, Q96GM5, P62701, P15036, Q99607, Q06413, P55317, P28908, O00468, Q13422, P08651, P15923, Q06945, P51692, Q9NVC6, Q01196, P62988, Q02930, Q9BZQ8, P17947, Q9BRP0, Q16621, O14497, P29375, O15085, Q12906, P42226, P19419, P08238, P68871, P17096, O75925, P18850, P56211, O15516, P32519

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GOID GO:0022613

TERM ribonucleoprotein complex biogenesis and assembly

P-VALUE 5.41052880386943e-10

CORRECTED P-VALUE 9.92290982629654e-07

NUM_ANNOTATIONS 39 (of 298)

ANNOTATED_GENES O75940, Q9Y221, P62314, Q9ULR5, P62753, P09234, O60739, P61247, Q15056, P46782, Q9NPE3, P39019, P06730, O15371, O00303, P62857, P05388, P62847, P62249, P55010, Q13247, P18124, P06748, P18077, P62263, O75494, Q9H074, Q9Y3A2, P62913, P08708, P55769, P41567, Q9UHA3, P62081, P23396, Q15459, P62304, Q13243, Q13542

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GOID GO:0031324

TERM negative regulation of cellular metabolic process

P-VALUE 6.23452025499367e-10

CORRECTED P-VALUE 1.14341101476584e-06

NUM_ANNOTATIONS 67 (of 698)

ANNOTATED_GENES P41182, Q06546, Q9HCS4, Q96BD5, Q9ULR5, P27816, P55273, Q00577, Q14469, P01137, P63165, P32320, O75427, Q99967, P48552, Q02535, P16989, Q9P0J0, Q13796, O15054, Q9Y576, Q13422, P08651, Q03989, O43251, Q96KC8, Q01082, P31949, Q9BZQ8, P09429, P17947, P10071, P35227, P38936, P23396, P17096, Q13542, Q03014, O95425, P10636, P61925, Q12830, P47756, Q01105, P40763, Q15326, P14316, P26045, Q01658, Q53EL6, P63279, P62277, O75190, O15534, P35241, O75366, P55055, Q06413, Q9NZU5, P62263, O75494, Q13207, Q9BRP0, P11277, P27348, O75943, Q12906

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GOID GO:0009891

TERM positive regulation of biosynthetic process

P-VALUE 7.02935865765743e-10

CORRECTED P-VALUE 1.28918437781437e-06

NUM_ANNOTATIONS 63 (of 639)

ANNOTATED_GENES P46734, Q15306, Q03014, Q9HCS4, Q04771, Q12830, P18848, Q12951, Q12778, P19438, P01137, P35269, Q04864, P62826, P08069, Q99967, Q13263, P48552, P33681, P31749, O75586, Q12905, Q9UHK0, Q15788, Q13772, P43405, P10914, P40425, Q96GM5, P62701, P15036, Q99607, Q06413, P55317, P28908, O00468, Q13422, P08651, P15923, Q06945, P51692, Q9NVC6, Q01196, P62988, Q02930, Q9BZQ8, P17947, Q9BRP0, Q16621, O14497, P29375, O15085, Q12906, P42226, P19419, P08238, P68871, P17096, O75925, P18850, P56211, O15516, P32519

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GOID GO:0009892

TERM negative regulation of metabolic process

P-VALUE 7.9219508366258e-10

CORRECTED P-VALUE 1.45288578343717e-06

NUM_ANNOTATIONS 69 (of 733)

ANNOTATED_GENES P41182, Q06546, Q9HCS4, Q96BD5, Q9ULR5, P27816, P55273, Q00577, Q14469, P01137, O60238, P63165, P32320, O75427, Q99967, P48552, Q02535, P16989, Q9P0J0, P98179, Q13796, O15054, Q9Y576, Q13422,

P08651, Q03989, O43251, Q96KC8, Q01082, P31949, Q9BZQ8, P09429, P17947, P10071, P35227, P38936, P23396, P17096, Q13542, Q03014, O95425, P10636, P61925, Q12830, P47756, Q01105, P40763, Q15326, P14316, P26045, Q01658, Q53EL6, P63279, P62277, O75190, O15534, P35241, O75366, P55055, Q06413, Q9NZU5, P62263, O75494, Q13207, Q9BRP0, P11277, P27348, O75943, Q12906

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GOID GO:0065008

TERM regulation of biological quality

P-VALUE 1.12392083047483e-09

CORRECTED P-VALUE 2.06127080309084e-06

NUM_ANNOTATIONS 127 (of 1720)

ANNOTATED_GENES O15511, Q14344, Q01543, P41182, Q13177, Q8IXS6, Q15014, P55273, P32246, P40424, Q92736, P01137, P32320, P28331, P46782, P08195, P25098, O75995, P39019, P31749, O15145, P61073, Q13162, Q30201, P12235, Q9H3Q1, P25963, P02686, P31146, Q9P0J0, P61106, Q13796, Q9Y691, P51575, O00468, O00329, P54852, P01009, P29992, Q9UN86, Q01082, O76003, O15144, O43557, P17947, Q16621, P50150, P38936, P30556, P62330, Q9BPX5, P10600, Q07001, P25942, Q96FS4, O15085, P08237, P17844, P68871, P07948, Q01453, P46597, P10124, P08123, O43315, Q6NYC1, Q92506, P50897, O95425, P49768, P17081, Q04721, P62753, O75787, P47756, P06737, P21127, Q07820, P62324, P15311, Q8IXI2, Q15084, P46092, O95461, Q8NBQ5, Q13310, P62847, P04179, P42768, P63302, P35241, P61158, O75366, P62341, P55317, Q9NP74, P31358, P33947, O60383, P62263, P60981, P51692, P62988, P30273, P08620, P38435, P08708, P11277, P14317, Q86Z22, P17174, O95977, P32245, P14625, O00453, O60356, P30679, Q9NSE2, Q9GZP9, O43838, O75489, Q16611, P13693, P50148, P08575, P06576, Q7L1T6

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GOID GO:0010605

TERM -negative regulation of macromolecule metabolic process

P-VALUE 1.22128958555716e-09

CORRECTED P-VALUE 2.23984509991184e-06

NUM_ANNOTATIONS 66 (of 694)

ANNOTATED_GENES P41182, Q06546, Q9HCS4, Q96BD5, Q9ULR5, P27816, Q00577, Q14469, P01137, O60238, P63165, O75427, Q99967, P48552, Q02535, P16989, Q9P0J0, P98179, Q13796, O15054, Q9Y576, Q13422, P08651, Q03989, O43251, Q96KC8, Q01082, P31949, Q9BZQ8, P09429, P17947, P10071, P35227, P23396, P17096, Q13542, Q03014, O95425, P10636, P61925, Q12830, P47756, Q01105, P40763, Q15326, P14316, P26045, Q01658, Q53EL6, P63279, P62277,

O75190, O15534, P35241, O75366, P55055, Q06413, Q9NZU5, P62263, O75494, Q13207, Q9BRP0, P11277, P27348, O75943, Q12906

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GOID GO:0010605 - macromolecule metabolic process

TERM negative regulation of macromolecule metabolic process

P-VALUE 1.22128958555716e-09

CORRECTED P-VALUE 2.23984509991184e-06

NUM_ANNOTATIONS 66 (of 694)

ANNOTATED_GENES P41182, Q06546, Q9HCS4, Q96BD5, Q9ULR5, P27816, Q00577, Q14469, P01137, O60238, P63165, O75427, Q99967, P48552, Q02535, P16989, Q9P0J0, P98179, Q13796, O15054, Q9Y576, Q13422, P08651, Q03989, O43251, Q96KC8, Q01082, P31949, Q9BZQ8, P09429, P17947, P10071, P35227, P23396, P17096, Q13542, Q03014, O95425, P10636, P61925, Q12830, P47756, Q01105, P40763, Q15326, P14316, P26045, Q01658, Q53EL6, P63279, P62277, O75190, O15534, P35241, O75366, P55055, Q06413, Q9NZU5, P62263, O75494, Q13207, Q9BRP0, P11277, P27348, O75943, Q12906

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GOID GO:0022900

TERM electron transport chain

P-VALUE 1.82524585869436e-09

CORRECTED P-VALUE 3.34750090484545e-06

NUM_ANNOTATIONS 25 (of 143)

ANNOTATED_GENES P07919, O75746, P13498, P21912, O15239, P22695, Q12887, P31930, O00483, O75306, P28331, O95169, P14927, P19404, P49447, O43676, O75489, P99999, O43674, P10109, P51970, P04179, P47985, Q9P0J0, O75251

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GOID GO:0051246

TERM regulation of protein metabolic process

P-VALUE 1.82696111598736e-09

CORRECTED P-VALUE 3.35064668672081e-06

NUM_ANNOTATIONS 53 (of 505)

ANNOTATED_GENES O15511, O95425, P10636, Q9ULR5, P27816, O75787, P01137, O60739, P62253, P47756, Q15056, Q01105, P46782, P33681, P31749, P06730, Q8NEJ9, O15145, O43847, O15371, O00303, P26045, P63279, P43405, P63146, Q9P0J0, P35241, P55010, P62701, P61158, Q13796, O75366, P62341, P61088, P49459, P61077, Q9Y366, P30281, Q96KC8, P60981, Q01082, Q9H074,

O75807, Q9BZQ8, O15144, P11277, P41567, P14317, P62330, Q9BPX5, P07948, Q13542, P62837

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GOID GO:0000375

TERMRNA splicing, via transesterification reactions

P-VALUE 1.86723195694024e-09

CORRECTED P-VALUE 3.4245034090284e-06

NUM_ANNOTATIONS 19 (of 84)

ANNOTATED_GENES Q13247, P31942, P07910, O75940, P09651, P62314, O75494, Q9UK45, P09234, Q01081, Q15427, O00148, Q92620, Q13595, Q15459, P52272, Q13243, P62304, P62995

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GOID GO:0000377

TERMRNA splicing, via transesterification reactions with bulged adenosine as nucleophile

P-VALUE 1.86723195694024e-09

CORRECTED P-VALUE 3.4245034090284e-06

NUM_ANNOTATIONS 19 (of 84)

ANNOTATED_GENES Q13247, P31942, P07910, O75940, P09651, P62314, O75494, Q9UK45, P09234, Q01081, Q15427, O00148, Q92620, Q13595, Q15459, P52272, Q13243, P62304, P62995

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GOID GO:0000398

TERM nuclear mRNA splicing, via spliceosome

P-VALUE 1.86723195694024e-09

CORRECTED P-VALUE 3.4245034090284e-06

NUM_ANNOTATIONS 19 (of 84)

ANNOTATED_GENES Q13247, P31942, P07910, O75940, P09651, P62314, O75494, Q9UK45, P09234, Q01081, Q15427, O00148, Q92620, Q13595, Q15459, P52272, Q13243, P62304, P62995

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GOID GO:0006357

TERM regulation of transcription from RNA polymerase II promoter

P-VALUE 5.032282288781e-09

CORRECTED P-VALUE 9.22920571762435e-06

NUM_ANNOTATIONS 66 (of 719)

ANNOTATED_GENES P41182, Q06546, Q9HCS4, Q96BD5, Q06547, Q14469, P05549, P01137, Q99967, Q13263, P48552, Q02535, P16989, O14646, Q96GM5, Q99607, O15054, O00468, Q13422, P08651, Q01196, P17947, P09429, Q16621, P17275, P35227, P07737, P09630, P18850, P17535, Q03014, P18848, P61925, Q12830, Q12778, P19438, P40763, Q15326, O75586, Q9UHK0, P14316, P01100, Q01658, P04179, P10914, P40425, Q92754, P53999, Q06413, P55317, Q9NZU5, P62263, P51692, Q13207, Q9NVC6, O00422, Q99732, P42226, P19419, Q14241, P51532, P24468, Q12968, O15516, Q12824, P32519

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GOID GO:0010557

TERM+positive regulation of macromolecule biosynthetic process

P-VALUE 5.24622557954354e-09

CORRECTED P-VALUE 9.62157771288285e-06

NUM_ANNOTATIONS 59 (of 611)

ANNOTATED_GENES P46734, Q15306, Q03014, Q9HCS4, Q04771, Q12830, P18848, Q12951, Q12778, P19438, P01137, P35269, Q04864, P62826, P08069, Q99967, Q13263, P48552, P33681, O75586, Q12905, Q9UHK0, Q15788, Q13772, P43405, P10914, P40425, Q96GM5, P62701, P15036, Q99607, Q06413, P55317, P28908, O00468, Q13422, P08651, P15923, Q06945, P51692, Q9NVC6, Q01196, P62988, Q02930, Q9BZQ8, P17947, Q9BRP0, Q16621, O14497, P29375, O15085, Q12906, P42226, P19419, P17096, O75925, P18850, O15516, P32519

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GOID GO:0010557 + macromolecule biosynthetic process

TERM positive regulation of macromolecule biosynthetic process

P-VALUE 5.24622557954354e-09

CORRECTED P-VALUE 9.62157771288285e-06

NUM_ANNOTATIONS 59 (of 611)

ANNOTATED_GENES P46734, Q15306, Q03014, Q9HCS4, Q04771, Q12830, P18848, Q12951, Q12778, P19438, P01137, P35269, Q04864, P62826, P08069, Q99967, Q13263, P48552, P33681, O75586, Q12905, Q9UHK0, Q15788, Q13772, P43405, P10914, P40425, Q96GM5, P62701, P15036, Q99607, Q06413, P55317, P28908, O00468, Q13422, P08651, P15923, Q06945, P51692, Q9NVC6, Q01196, P62988, Q02930, Q9BZQ8, P17947, Q9BRP0, Q16621, O14497, P29375, O15085, Q12906, P42226, P19419, P17096, O75925, P18850, O15516, P32519

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GOID GO:0033036

TERM macromolecule localization

P-VALUE 5.27193909219632e-09
CORRECTED P-VALUE 9.66873629508805e-06
NUM_ANNOTATIONS 102 (of 1320)
ANNOTATED_GENES P41182, P09651, Q8IXS6, O00505, O00203, Q92624, O95486, O00161, P01137, Q96T51, O60896, P63165, Q96IW7, O00628, P84077, P49755, P31749, P05783, P51153, P25963, P63010, Q9H0V9, Q9P0J0, P61106, Q9ULZ3, Q13796, Q92838, P06748, O95405, O15117, O14925, Q9NPF2, O94979, P49754, P61326, Q96KC8, Q9Y3E0, Q9UN86, Q01082, Q12907, O43557, Q13596, P62913, P10071, O00560, P12830, Q9H9H4, P62330, P10600, P08240, P51149, O15126, Q15771, Q9HC62, P43307, Q13636, Q15629, P10124, Q03014, O43747, P50897, P61925, Q9H902, P62826, Q96P20, P15311, Q96P71, Q7LBR1, P55735, Q6UWC1, P27824, P43308, P35241, P35606, Q99698, P60468, P33947, Q9Y5J9, O75494, Q03518, Q9Y6X1, P30040, O60684, O00148, P51571, Q15027, P98160, P53618, O00629, P14625, Q9UKK6, Q9Y5L0, O60763, P50395, P61619, P31946, Q9GZP9, P62829, Q13277, Q15363, P61586, P35658

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GOID GO:0007242

TERM intracellular signaling cascade

P-VALUE 6.14946135612786e-09
CORRECTED P-VALUE 1.12781121271385e-05
NUM_ANNOTATIONS 156 (of 2306)
ANNOTATED_GENES Q14344, P41182, Q14161, P98171, Q9NRJ4, P32246, P01137, Q9H0Z9, Q9P1W9, Q04864, P84077, P48552, P31749, Q8NG66, P61073, Q13162, P53365, P51153, O75689, O94844, P25963, P43405, Q9ULZ3, P98077, Q92609, Q9Y576, O15068, Q15545, P61088, O15117, Q6ZMJ9, Q14790, P29992, Q15759, Q9UN86, O43557, O14497, P30556, P48736, P62330, P25942, P15153, O15085, P23396, Q15771, P07949, P07948, Q13636, Q13542, P08123, P25025, Q86UE8, Q6NYC1, O14494, P50897, P33552, Q15669, O75787, P05771, P29466, O15211, P33681, Q8IXI2, O14727, P04179, Q15788, P28562, P11021, Q02779, P60953, Q9NVC6, P46940, O60503, P28482, P14317, O95977, P04899, O75943, Q99732, P01111, Q9NSE2, Q9GZP9, P50148, O75582, O75925, P29692, P48551, P16885, Q15628, P52565, Q15311, O94989, Q9H3Q1, P99999, Q13794, O00291, Q9NP99, Q07890, P49137, Q13772, Q9P0J0, P61106, O00329, P26651, Q15418, O43251, O95865, Q9Y3E0, Q08AR7, O15519, Q9C000, O00560, P52566, P61225, P10600, Q96FS4, P51149, P84095, O43281, A2RQD6, P42224, Q15438, Q8I WV1, P18850, Q6ZT07, P46734, P21580, P49768, Q04721, P17081, P62753, P19438, Q15208, P62826, P08069, Q07820, P40763, O14781, P21796, Q1ZYL3, P40616, Q9GZY6, Q9H2K8, P55211, Q06187, O43306, P06241, P15498, P51692, P49795, Q15027, P32245, P30679, Q16611, P31689, P61586

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GOID GO:0045941

TERM positive regulation of transcription

P-VALUE 6.59049348448803e-09

CORRECTED P-VALUE 1.20869650505511e-05

NUM_ANNOTATIONS 54 (of 539)

ANNOTATED_GENES P46734, Q15306, Q03014, Q9HCS4, Q04771, Q12830, P18848, Q12951, Q12778, P19438, P01137, P35269, Q04864, P62826, Q99967, Q13263, P48552, P33681, O75586, Q12905, Q9UHK0, Q15788, Q13772, P10914, P40425, Q96GM5, P15036, Q99607, Q06413, P55317, O00468, Q13422, P08651, P15923, Q06945, P51692, Q9NVC6, Q01196, P62988, Q02930, P17947, Q9BRP0, Q16621, O14497, P29375, O15085, Q12906, P42226, P19419, P17096, O75925, P18850, O15516, P32519

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GOID GO:0034621

TERM cellular macromolecular complex subunit organization

P-VALUE 9.02979554886249e-09

CORRECTED P-VALUE 1.65606450366138e-05

NUM_ANNOTATIONS 71 (of 810)

ANNOTATED_GENES Q93077, O15511, P50750, P62314, Q9ULR5, P27816, O60739, P61247, P46782, P06730, O15145, O15371, Q93079, P68431, P31146, P07437, Q13247, Q13796, P06748, P55209, O95405, Q15545, O00468, Q01082, Q9H074, O15144, P09429, Q16621, Q9H853, P41567, P62330, Q9BPX5, P23396, Q15459, P17096, P0C0S5, P62304, Q13243, Q13542, O75940, Q9Y221, O43516, O95425, P10636, P84243, P35269, P47756, Q15056, Q01105, P68363, O00303, P42768, Q14289, P55010, O75251, P35241, P61158, O75366, P68371, P13498, P16104, P56270, P68366, Q12887, P62263, O75494, P60981, Q92522, Q9NVC6, P08708, P11277

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GOID GO:0045935

TERM positive regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process

P-VALUE 9.48007708967272e-09

CORRECTED P-VALUE 1.73864613824598e-05

NUM_ANNOTATIONS 56 (of 575)

ANNOTATED_GENES P46734, Q15306, Q03014, Q9HCS4, Q04771, Q12830, P18848, Q12951, Q12778, P19438, P01137, P35269, Q04864, P62826, P08069,

Q99967, Q13263, P48552, P33681, O75586, Q12905, Q9UHK0, Q15788, Q13772, P10914, Q96GM5, P40425, P15036, Q99607, Q06413, P61088, P55317, O00468, Q13422, P08651, P15923, Q06945, P51692, Q9NVC6, Q01196, P62988, Q02930, P17947, Q9BRP0, Q16621, O14497, P29375, O15085, Q12906, P42226, P19419, P17096, O75925, P18850, O15516, P32519

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GOID GO:0010628

TERM +positive regulation of gene expression

P-VALUE 1.16402946711374e-08

CORRECTED P-VALUE 2.13483004268659e-05

NUM_ANNOTATIONS 54 (of 548)

ANNOTATED_GENES P46734, Q15306, Q03014, Q9HCS4, Q04771, Q12830, P18848, Q12951, Q12778, P19438, P01137, P35269, Q04864, P62826, Q99967, Q13263, P48552, P33681, O75586, Q12905, Q9UHK0, Q15788, Q13772, P10914, P40425, Q96GM5, P15036, Q99607, Q06413, P55317, O00468, Q13422, P08651, P15923, Q06945, P51692, Q9NVC6, Q01196, P62988, Q02930, P17947, Q9BRP0, Q16621, O14497, P29375, O15085, Q12906, P42226, P19419, P17096, O75925, P18850, O15516, P32519

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GOID GO:0010628 + gene expression

TERM positive regulation of gene expression

P-VALUE 1.16402946711374e-08

CORRECTED P-VALUE 2.13483004268659e-05

NUM_ANNOTATIONS 54 (of 548)

ANNOTATED_GENES P46734, Q15306, Q03014, Q9HCS4, Q04771, Q12830, P18848, Q12951, Q12778, P19438, P01137, P35269, Q04864, P62826, Q99967, Q13263, P48552, P33681, O75586, Q12905, Q9UHK0, Q15788, Q13772, P10914, P40425, Q96GM5, P15036, Q99607, Q06413, P55317, O00468, Q13422, P08651, P15923, Q06945, P51692, Q9NVC6, Q01196, P62988, Q02930, P17947, Q9BRP0, Q16621, O14497, P29375, O15085, Q12906, P42226, P19419, P17096, O75925, P18850, O15516, P32519

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GOID GO:0042127

TERM ®ulation of cell proliferation

P-VALUE 1.18989194422458e-08

CORRECTED P-VALUE 2.18226182570788e-05

NUM_ANNOTATIONS 67 (of 751)

ANNOTATED_GENES P41182, Q9UFF9, P55273, Q00577, Q14469, O75411, P01137, P56545, O75995, P25963, P31146, P43405, P46781, P06748, P55209, P28908, P54852, Q9NPF2, O43251, Q14106, P31949, P10071, P38936, P30556, P10600, P15153, P84095, P43307, P07948, P35226, Q03014, P25025, O14494, Q969H8, Q04721, Q12778, P08069, P25705, P62324, O75563, O14781, P09619, Q08722, P43490, P04179, P41240, Q14289, P62701, Q13418, P13164, Q06945, P51692, Q13207, O95751, P08620, Q12999, Q9BRP0, P62244, P14317, P00491, P04899, O00453, P01111, P42226, Q9GZP9, P08575, Q12824

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GOID GO:0006913

TERM nucleocytoplasmic transport

P-VALUE 1.79386317294926e-08

CORRECTED P-VALUE 3.28994505918895e-05

NUM_ANNOTATIONS 30 (of 219)

ANNOTATED_GENES P41182, P09651, Q92838, Q03014, P06748, O00505, O95405, O15117, P61925, O75494, Q9UN86, Q01082, P01137, O60684, O43557, P10071, O00148, Q01105, P62826, P12830, Q96P20, P10600, O00629, Q9UKK6, P31749, P62829, P25963, Q9P0J0, P35658, P61586

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GOID GO:0051169

TERM nuclear transport

P-VALUE 2.21410608200339e-08

CORRECTED P-VALUE 4.06067055439422e-05

NUM_ANNOTATIONS 30 (of 221)

ANNOTATED_GENES P41182, P09651, Q92838, Q03014, P06748, O00505, O95405, O15117, P61925, O75494, Q9UN86, Q01082, P01137, O60684, O43557, P10071, O00148, Q01105, P62826, P12830, Q96P20, P10600, O00629, Q9UKK6, P31749, P62829, P25963, Q9P0J0, P35658, P61586

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GOID GO:0051170

TERM nuclear import

P-VALUE 2.36041929496225e-08

CORRECTED P-VALUE 4.32900898696077e-05

NUM_ANNOTATIONS 23 (of 139)

ANNOTATED_GENES P41182, P09651, Q92838, O00505, O95405, O15117, P61925, Q9UN86, Q01082, P01137, O60684, O43557, P10071, P12830, Q96P20, O00629, P10600, P31749, P62829, P25963, Q9P0J0, P35658, P61586

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GOID GO:0015031

TERM protein transport

P-VALUE 2.60449419786771e-08

CORRECTED P-VALUE 4.77664235888938e-05

NUM_ANNOTATIONS 89 (of 1135)

ANNOTATED_GENES P41182, O00505, O00203, Q92624, O95486, O00161, P01137, Q96T51, O60896, Q96IW7, O00628, P84077, P49755, P31749, P05783, P51153, P25963, P63010, Q9H0V9, Q9P0J0, P61106, Q9ULZ3, Q92838, P06748, O95405, O15117, O14925, O94979, P49754, Q96KC8, Q9Y3E0, Q9UN86, Q01082, Q12907, O43557, P62913, Q13596, P10071, O00560, P12830, Q9H9H4, P62330, P10600, P08240, P51149, O15126, Q15771, Q9HC62, P43307, Q13636, Q15629, P10124, O43747, P50897, P61925, P62826, Q96P20, Q96P71, Q7LBR1, P55735, Q6UWC1, P27824, P43308, P35606, Q99698, P60468, P33947, Q9Y5J9, Q03518, Q9Y6X1, P30040, O60684, P51571, Q15027, P53618, P14625, O00629, Q9UKK6, Q9Y5L0, O60763, P50395, P61619, P31946, Q9GZP9, P62829, Q13277, Q15363, P61586, P35658

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GOID GO:0046907

TERM intracellular transport

P-VALUE 2.60449419786771e-08

CORRECTED P-VALUE 4.77664235888938e-05

NUM_ANNOTATIONS 89 (of 1135)

ANNOTATED_GENES P41182, P09651, O00505, O00203, Q92624, O95486, O00161, P01137, O60896, Q96IW7, O00628, P55916, P49755, P31749, P05783, P25963, P63010, Q9H0V9, Q9P0J0, P61106, Q9H4M9, P07437, Q9UBK9, Q92838, P06748, O95405, O15117, O14925, O94979, P49754, Q9UN86, Q01082, O43557, P62913, Q13596, P10071, O00560, Q9H853, P12830, P10600, Q96EK5, P08240, O15533, O15126, Q9HC62, P43307, Q9UHY1, Q15629, O75746, P14649, Q03014, O43516, O43747, P61925, Q01105, P62826, Q96P20, P68363, Q8IXI2, P55735, Q6UWC1, P42768, P43308, P35606, P68371, Q99698, P68366, P60468, P33947, Q9Y5J9, O75494, Q9Y6X1, P30040, O60684, O00148, P51571, P53618, O00629, Q9UKK6, O60763, P61619, P31946, Q9GZP9, P62829, Q16611, Q13277, P45379, P35658, P61586

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GOID GO:0008104

TERM protein localization

P-VALUE 2.84731594740696e-08
CORRECTED P-VALUE 5.22197744754436e-05
NUM_ANNOTATIONS 96 (of 1259)
ANNOTATED_GENES P41182, Q8IXS6, O00505, O00203, Q92624, O95486, O00161, P01137, Q96T51, O60896, P63165, Q96IW7, O00628, P84077, P49755, P31749, P05783, P51153, P25963, P63010, Q9H0V9, Q9P0J0, P61106, Q9ULZ3, Q13796, Q92838, P06748, O95405, O15117, O14925, O94979, P49754, Q96KC8, Q9Y3E0, Q9UN86, Q01082, Q12907, O43557, P62913, Q13596, P10071, O00560, P12830, Q9H9H4, P62330, P10600, P08240, P51149, O15126, Q15771, Q9HC62, P43307, Q13636, Q15629, P10124, O43747, P50897, P61925, Q9H902, P62826, Q96P20, P15311, Q96P71, Q7LBR1, P55735, Q6UWC1, P27824, P43308, P35241, P35606, Q99698, P60468, P33947, Q9Y5J9, Q03518, Q9Y6X1, P30040, O60684, P51571, Q15027, P98160, P53618, P14625, O00629, Q9UKK6, Q9Y5L0, O60763, P50395, P61619, P31946, Q9GZP9, P62829, Q13277, Q15363, P61586, P35658

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GOID GO:0045184

TERM establishment of protein localization

P-VALUE 3.05770518502655e-08
CORRECTED P-VALUE 5.60783130933869e-05
NUM_ANNOTATIONS 89 (of 1139)
ANNOTATED_GENES P41182, O00505, O00203, Q92624, O95486, O00161, P01137, Q96T51, O60896, Q96IW7, O00628, P84077, P49755, P31749, P05783, P51153, P25963, P63010, Q9H0V9, Q9P0J0, P61106, Q9ULZ3, Q92838, P06748, O95405, O15117, O14925, O94979, P49754, Q96KC8, Q9Y3E0, Q9UN86, Q01082, Q12907, O43557, P62913, Q13596, P10071, O00560, P12830, Q9H9H4, P62330, P10600, P08240, P51149, O15126, Q15771, Q9HC62, P43307, Q13636, Q15629, P10124, O43747, P50897, P61925, P62826, Q96P20, Q96P71, Q7LBR1, P55735, Q6UWC1, P27824, P43308, P35606, Q99698, P60468, P33947, Q9Y5J9, Q03518, Q9Y6X1, P30040, O60684, P51571, Q15027, P53618, P14625, O00629, Q9UKK6, Q9Y5L0, O60763, P50395, P61619, P31946, Q9GZP9, P62829, Q13277, Q15363, P61586, P35658

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GOID GO:0006996

TERM organelle organization

P-VALUE 3.37356155191204e-08
CORRECTED P-VALUE 6.18711188620669e-05
NUM_ANNOTATIONS 100 (of 1334)

ANNOTATED_GENES Q93077, O15511, O95931, P98171, Q15014, Q9HCS4, Q12959, Q96BD5, P27816, P40123, Q9P1W9, Q12981, O94953, O00628, Q9NPE3, P39019, P31749, O15145, Q93079, P12235, P68431, P99999, P62857, P05388, O00291, Q13794, P62249, P31146, O14646, Q9P0J0, Q96GM5, Q13796, O15054, Q9UBK9, P06748, P55209, P61088, Q01518, O14925, Q01082, O15144, P62913, P09429, Q16621, O14497, P35227, P07737, P62330, Q9BPX5, Q96FS4, P62081, P17096, P0C0S5, P10124, P35226, Q9Y221, Q86UE8, Q6NYC1, P50897, O95425, P10636, Q12830, P19971, P84243, P62753, P47756, Q01105, Q9NXR1, P15311, P16157, P62847, P04179, P35241, O75251, P61158, O75366, P18124, O43823, Q99698, O75164, P16104, P18077, Q12887, Q9Y5J9, P62263, P60981, Q92522, Q9Y3A2, P08708, O00257, P55769, P11277, P29375, O60763, Q9UHA3, Q9H8Y8, Q16611, O75582, Q08999, Q12824

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GOID GO:0006605

TERM protein targeting

P-VALUE 3.47276929695744e-08

CORRECTED P-VALUE 6.36905889061994e-05

NUM_ANNOTATIONS 36 (of 304)

ANNOTATED_GENES P41182, O00505, P61925, O00203, P01137, O00628, P62826, Q96P20, P31749, Q6UWC1, P25963, Q9P0J0, P43308, Q92838, O95405, O15117, O14925, Q9Y5J9, Q01082, Q9UN86, P62913, O43557, O60684, O00560, P10071, P12830, O00629, P10600, Q9UKK6, P08240, P31946, P62829, P43307, Q15629, P35658, P61586

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GOID GO:0065003

TERM macromolecular complex assembly

P-VALUE 3.54852239195065e-08

CORRECTED P-VALUE 6.50799006683749e-05

NUM_ANNOTATIONS 77 (of 938)

ANNOTATED_GENES Q93077, O15511, P50750, O00505, P35609, P62314, Q9ULR5, O60739, P61247, P63165, P32320, P46782, Q14118, P06730, O15145, O15371, Q07157, Q93079, Q30201, P68431, O00291, P43405, P07437, Q13247, P06748, P55209, O95405, Q15545, O00468, Q9H074, O15144, P09429, Q9H853, P41567, P62330, Q9BPX5, P25942, O15533, P23396, P08237, Q15459, P17096, P0C0S5, P62304, Q13243, Q13542, O75940, Q9Y221, O43516, P10636, P84243, P35269, Q15056, Q01105, P08069, Q96P20, O75563, P68363, O00303, P42768, Q14289, P55010, O75251, P61158, P68371, P13498, P60953, P68366, P16104, P56270, Q12887, P62263, O75494, Q92522, Q9NVC6, P08708, P30566

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GOID GO:0045893

TERM positive regulation of transcription, DNA-dependent

P-VALUE 3.63397657752749e-08

CORRECTED P-VALUE 6.66471304318542e-05

NUM_ANNOTATIONS 47 (of 461)

ANNOTATED_GENES P46734, Q03014, Q9HCS4, Q12830, P18848, Q12951, Q12778, P19438, P01137, Q04864, P62826, Q99967, Q13263, P48552, O75586, Q12905, Q9UHK0, Q15788, Q13772, P10914, P40425, Q96GM5, P15036, Q99607, Q06413, P55317, O00468, Q13422, P08651, P15923, Q06945, P51692, Q9NVC6, Q01196, Q02930, P17947, Q9BRP0, O14497, O15085, P42226, Q12906, P19419, P17096, O75925, P18850, O15516, P32519

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GOID GO:0022607

TERM cellular component assembly

P-VALUE 4.28443964815972e-08

CORRECTED P-VALUE 7.85766231472492e-05

NUM_ANNOTATIONS 81 (of 1010)

ANNOTATED_GENES Q93077, O15511, P50750, O00505, P35609, P62314, Q9ULR5, O60739, P61247, P63165, P32320, P46782, Q14118, P08727, P06730, O15145, O15371, Q07157, Q93079, Q30201, P68431, O00291, P43405, P07437, Q13247, P06748, P55209, O95405, Q15545, O00468, Q9H074, O15144, P09429, Q9H853, P41567, P62330, Q9BPX5, P25942, O15533, P23396, P08237, Q15459, P17096, P0C0S5, P62304, Q13243, Q13542, O75940, Q9Y221, O43516, P10636, P84243, P35269, Q15056, Q01105, P08069, Q96P20, O75563, P68363, O00303, P42768, P63146, O75251, Q14289, P55010, P61158, P68371, P13498, P60953, P68366, P16104, P56270, Q12887, P62263, O75494, Q92522, Q9NVC6, P28289, P08708, P63261, P30566

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GOID GO:0051254

TERM positive regulation of RNA metabolic process

P-VALUE 4.42648571779843e-08

CORRECTED P-VALUE 8.11817480644232e-05

NUM_ANNOTATIONS 47 (of 464)

ANNOTATED_GENES P46734, Q03014, Q9HCS4, Q12830, P18848, Q12951, Q12778, P19438, P01137, Q04864, P62826, Q99967, Q13263, P48552, O75586, Q12905, Q9UHK0, Q15788, Q13772, P10914, P40425, Q96GM5, P15036, Q99607,

Q06413, P55317, O00468, Q13422, P08651, P15923, Q06945, P51692, Q9NVC6, Q01196, Q02930, P17947, Q9BRP0, O14497, O15085, P42226, Q12906, P19419, P17096, O75925, P18850, O15516, P32519

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GOID GO:0045333

TERM cellular respiration

P-VALUE 4.5836790931157e-08

CORRECTED P-VALUE 8.40646745677419e-05

NUM_ANNOTATIONS 16 (of 72)

ANNOTATED_GENES P07919, P40925, O75390, P21912, P50213, P22695, Q12887, P31930, P28331, P14927, Q13423, O43837, P40926, P99999, Q12968, P11177

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GOID GO:0007243

TERM protein kinase cascade

P-VALUE 5.57848706278002e-08

CORRECTED P-VALUE 0.000102309452731386

NUM_ANNOTATIONS 51 (of 528)

ANNOTATED_GENES P46734, Q14344, P21580, P29692, P48551, Q15669, P19438, Q15628, O75787, P01137, Q04864, Q15208, P08069, P40763, P29466, O14781, P31749, Q8NG66, P61073, Q13162, P25963, P43405, P49137, Q9H2K8, Q02779, P61088, O15117, P26651, Q15418, P06241, Q14790, Q06187, Q9Y3E0, Q15759, Q9UN86, P51692, O15519, O43557, P28482, P14317, P10600, P25942, P04899, Q99732, P42224, O75582, Q8I WV1, P07949, P07948, O75925, P61586

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GOID GO:0022618

TERM ribonucleoprotein complex assembly

P-VALUE 5.69765091486518e-08

CORRECTED P-VALUE 0.000104494917778627

NUM_ANNOTATIONS 24 (of 157)

ANNOTATED_GENES Q13247, O75940, Q9Y221, P06748, P62314, O75494, P62263, Q9ULR5, Q9H074, O60739, P61247, P08708, Q15056, P46782, P41567, P06730, O15371, O00303, P23396, Q15459, P62304, Q13243, P55010, Q13542

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GOID GO:0048856

TERM anatomical structure development

P-VALUE 7.31595833892096e-08
CORRECTED P-VALUE 0.00013417467593581
NUM_ANNOTATIONS 178 (of 2822)
ANNOTATED_GENES Q14344, P31785, Q15306, P41182, Q8IXS6, P35609, Q9HCS4, Q9UJH8, Q12959, Q04771, P50281, O00203, Q00577, Q14469, O75411, P40123, P55287, P05549, P01137, O75427, P48552, P39019, P31749, Q9Y4F9, Q08117, P61073, P53365, Q9NZG7, P25963, P16989, P13611, P43405, P07585, P12111, Q04725, Q9Y576, Q13422, P29373, Q9Y366, P15923, P29992, P10071, P17275, P35227, P30556, P62330, Q07001, P15153, O15085, P08238, P09630, P07949, P07948, Q01650, P17535, P08123, Q03014, Q6NYC1, P23771, P50897, O95425, Q96E22, P10636, Q15669, Q12778, P39059, Q16671, Q9NXR1, P15311, P33681, P16157, P08631, P19338, O14727, P01100, P04179, P42768, P63146, P10914, P40425, P35241, P60953, Q06413, Q92882, P55317, Q13207, Q9H0B8, Q9Y3A2, Q9BRP0, P63261, P28482, Q14494, P14317, Q15303, P01111, P54762, P42226, P50148, P08575, Q12968, P02452, Q12824, Q01543, P16885, Q12951, Q15628, Q9UGM1, P19404, Q14118, Q13263, P25098, Q99967, P08727, O75995, P05783, Q9H3Q1, Q02535, P02686, Q13772, P31146, P13612, P15036, Q13796, Q92838, P36955, O00468, Q01518, Q13075, P26651, Q9NPF2, Q14106, Q01196, P17947, O00560, P34820, P07737, P10600, Q96EK5, Q04726, Q01453, P10124, Q9UBI9, P14649, Q14738, P17081, Q04721, Q12830, P19971, P55327, P08069, P40763, P62324, O14781, O43847, Q9NQ50, O75366, Q13418, Q14254, Q9NP74, Q06187, O60383, Q06945, P62263, O60701, P51692, P28289, P62988, P08620, Q9NPI5, P55268, P00491, O00453, P25940, Q13277, P45379, P06576, Q16586, P61586

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GOID GO:0006606

TERM protein import into nucleus

P-VALUE 8.21525240291285e-08
CORRECTED P-VALUE 0.000150667729069422
NUM_ANNOTATIONS 22 (of 137)
ANNOTATED_GENES P41182, Q92838, O00505, O95405, O15117, P61925, Q9UN86, Q01082, P01137, O60684, O43557, P10071, P12830, Q96P20, O00629, P10600, P31749, P62829, P25963, Q9P0J0, P35658, P61586

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GOID GO:0051649

TERM establishment of localization in cell

P-VALUE 1.05672343283025e-07
CORRECTED P-VALUE 0.000193803077581069
NUM_ANNOTATIONS 102 (of 1402)

ANNOTATED_GENES P41182, P09651, O00505, O00203, Q92624, O95486, O00161, P01137, O15392, O60896, Q96IW7, O00628, P55916, P25098, P49755, P31749, P05783, P25963, P63010, Q9H0V9, P43405, Q9P0J0, P61106, Q9ULZ3, Q9H4M9, P07437, Q13796, Q9UBK9, Q92838, P06748, O95405, O15117, O14925, O94979, P49754, Q96KC8, Q9UN86, Q01082, O43557, P62913, Q13596, P10071, O00560, Q9H853, P12830, P10600, Q96EK5, P08240, O15533, O15126, Q9HC62, P43307, Q9UHY1, Q15629, P10124, O75746, P14649, Q03014, O43516, O43747, P50897, P61925, Q01105, P62826, Q96P20, P68363, Q8IXI2, P16157, Q96P71, P55735, Q6UWC1, P27824, P42768, P43308, Q9GZY6, P35606, P68371, Q99698, P68366, P60468, P33947, Q9Y5J9, O75494, Q9Y6X1, P30040, P30273, O60684, O00148, P51571, P53618, O00629, Q9UKK6, O60763, P61619, P31946, Q9GZP9, P62829, Q16611, Q13277, P45379, P35658, P61586

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GOID GO:0016071

TERM mRNA metabolic process

P-VALUE 1.27185698595442e-07

CORRECTED P-VALUE 0.000233258571224041

NUM_ANNOTATIONS 37 (of 334)

ANNOTATED_GENES P07910, O75940, P09651, P62314, Q9UK45, Q15287, P09234, Q01081, P23246, P11940, P21127, Q92620, Q15233, O60936, Q13595, Q14493, O43791, Q15007, P52272, P31942, Q13247, P26651, O43251, P61326, O75494, Q9H074, Q15427, O00148, P47974, Q96MU7, Q15459, P17844, O60506, P51003, P62304, Q13243, P62995

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GOID GO:0048513

TERM organ development

P-VALUE 1.37157958059328e-07

CORRECTED P-VALUE 0.000251547695080807

NUM_ANNOTATIONS 125 (of 1832)

ANNOTATED_GENES Q14344, P31785, Q15306, Q01543, P41182, Q9HCS4, Q04771, P50281, O00203, Q12951, P16885, Q15628, Q14469, O75411, P05549, P01137, Q9UGM1, P19404, Q99967, P48552, P25098, O75995, P39019, P08727, P31749, Q9Y4F9, Q08117, P61073, Q9NZG7, Q02535, P25963, P16989, P13611, Q13772, P43405, P13612, P07585, P12111, Q13796, Q04725, Q9Y576, Q92838, P36955, O00468, Q13422, P29373, P26651, Q9NPF2, Q9Y366, P15923, P29992, Q14106, Q01196, P17947, P34820, P10071, P17275, P35227, P30556, P62330, P10600, Q07001, Q04726, P08238, P07949, P07948, P10124, Q9UBI9, P08123, P14649, Q03014, Q6NYC1, P50897, O95425, Q96E22, Q12830, Q04721, P19971,

P55327, Q12778, Q15669, P39059, P08069, P62324, O14781, P33681, O43847, P08631, P19338, O14727, P04179, P42768, P10914, Q14254, Q13418, P60953, Q06413, P55317, Q06187, P62263, Q06945, Q13207, P51692, Q9H0B8, P62988, P28289, P08620, Q9NPI5, Q9BRP0, P63261, P28482, P55268, P14317, P00491, Q15303, P01111, P25940, P50148, P45379, P08575, Q12968, P02452, P06576, Q16586, P61586

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GOID GO:0050794

TERM regulation of cellular process

P-VALUE 1.56289846373852e-07

CORRECTED P-VALUE 0.000286635578249644

NUM_ANNOTATIONS 539 (of 10504)

ANNOTATED_GENES P31785, O95931, P98171, Q04771, Q00577, P40123, Q92837, Q16600, O15145, Q8NG66, P61073, P78560, P53365, P51153, Q92609, Q9Y576, P50749, P48730, P29992, Q96KC8, Q15759, Q01082, O76003, P09429, O14497, Q07001, P25942, P09630, Q9HC62, P07949, P17096, P07948, Q13542, P08123, Q03014, P18848, Q12778, P18084, P46100, O75787, Q15056, P08754, Q8IXI2, O75586, P16157, Q8IW41, P26045, P04179, P11309, Q9BZZ5, P35241, P55010, P23443, P50549, P30273, Q9UBN6, P28482, O00422, P27348, P04899, Q99732, P54762, P42226, Q12968, P50750, Q96BD5, P16885, Q9NQS1, P61247, Q99967, P25098, Q12905, P99999, Q9P0J0, Q96GM5, P15036, Q13796, P62158, P36955, O00329, P54852, Q01518, P26651, Q9NPF2, O75807, O15519, P57086, Q05DA6, Q15642, P10600, P32121, P51149, Q08345, Q32M63, P84095, Q99471, Q6ZT07, P10124, Q969H8, P17081, Q04721, O43813, Q01105, P21127, P62826, Q07820, Q15326, O60486, P21796, P23508, P14316, Q13232, Q9NP74, P62263, P15498, P51692, P16284, P62988, P08620, P29375, P32245, Q08999, P51532, P32519, O96013, O15511, Q14344, P09758, O95379, Q9UNS2, O00203, P27816, Q92736, P56545, O60896, P84077, P31749, O14979, O60936, P11474, Q96G23, Q13162, P08910, P25963, Q8N1W2, P07437, Q04725, O95405, O15117, P29373, Q13422, Q6ZMJ9, O60907, Q9UN86, Q9H074, Q9BZQ8, Q9UEG4, P10071, P62330, P42331, Q01968, Q16385, Q15771, P08514, Q13636, O43670, Q13029, P25025, P50897, Q15669, Q16671, O15354, P25705, P29466, Q96P71, O00303, O14727, O75190, P28562, P17861, P62277, P10914, P40425, P11021, Q92754, Q9Y6M4, P60981, P47974, P14317, Q15303, Q9NSE2, O75489, P13693, Q68HC0, Q12824, P24863, P55212, Q01543, Q12951, P55273, P40424, P52565, P05783, O00291, Q13772, O14646, P13612, P61106, O15054, Q92838, P55209, Q8TE02, O14519, Q14106, Q9Y3E0, P31949, O95817, Q08AR7, Q16621, O00560, P12830, O43281, A2RQD6, Q86Z02, Q15438, O75019, P18850, P56211, O76061, Q9ULV1, Q14738, Q9Y2A4, O00499, P49768, Q15208, O95158, P08069, P29350, P62324, P46092, Q1ZYL3,

P09619, P43490, Q53EL6, Q01658, Q9H2K8, O43823, Q7Z5R6, O75494, P13164, P49795, P41218, O00712, O00257, Q16384, Q96KM6, O00453, Q14241, P06576, P61586, Q15555, O60602, P41182, P25024, P35609, Q9UK58, P50281, Q12959, Q9UJH8, Q9UFF9, O75411, Q14469, P32246, P23246, Q04864, P32320, O75427, P48552, O15371, Q9H707, Q12982, O94844, P43405, Q9ULZ3, P98077, O15068, Q8N149, P08651, Q14790, P15923, Q9Y366, Q14103, P17275, P41567, Q6ZS44, P30556, P61244, P15153, P23396, P08238, O75581, O14867, O14494, Q6NYC1, O95425, P33552, P35269, P63104, Q96G25, O75563, P15311, P32927, P20290, P50895, Q08722, O14798, P01100, Q15788, P63279, P62701, P61158, P55055, O75164, P60953, Q13207, P46940, O95751, Q12999, Q9BRP0, P43250, P14625, O15304, O75943, Q12906, Q9GZP9, O75925, P35658, Q13362, O60759, Q10571, Q13177, Q15014, P48551, P63165, Q13263, P61978, O75995, P06730, O60224, O60603, O94989, P49137, P31146, Q07890, Q9NP99, Q99607, O00299, P51575, Q02833, O43251, O95865, P52566, O75155, P07737, O14862, P49674, Q04726, Q9UK73, P35226, O75810, P23511, P62753, P19438, O60828, P11940, O95238, P40763, O14781, P40616, O15534, Q9GZY6, O75366, Q13418, Q99698, P55211, O43306, O75474, P06241, O60383, Q9NPI5, O00178, Q13572, P00491, O60356, Q16611, P31689, P24468, Q15306, Q8IXS6, Q14161, Q9HCS4, Q06547, Q9ULR5, P55345, P05549, Q9NRJ4, P19397, P01137, O60739, O60238, Q9P1W9, Q9H0Z9, Q16633, P46782, O94953, P39019, Q08117, O75689, P16989, P06748, P61088, Q15545, P28908, Q03989, O43557, P35227, P48736, Q12796, Q9BPX5, O15085, Q9H204, Q6IQ32, P68871, P43307, P17535, O75940, P41220, Q86UE8, P23771, P10636, Q92750, P05771, O15211, P33681, Q14289, Q02779, Q92882, Q06413, P62341, P55317, P56270, P55061, P49773, P30281, Q9NVC6, O60503, Q9Y3A2, Q14494, O95977, Q86Z22, P01111, O75582, P50148, P10586, P19419, P08575, P48960, O15516, Q14314, Q06546, P29692, Q12860, Q15628, O15392, Q12981, P04808, P45877, Q15311, Q8NEJ9, P12757, Q02535, Q9H3Q1, Q13794, P46781, Q13075, O00468, O00472, Q15418, Q01196, Q05C50, P17947, O15144, Q9C000, P50150, P38936, O14836, P61225, Q9Nzd1, Q96FS4, P42224, Q8IwV1, Q658W4, P49716, P78552, P46734, P52736, P21580, P61925, Q12830, P49238, P47756, O15327, O95976, Q96P20, Q15233, O14880, O75339, Q15084, O43847, Q9UHK0, P50570, P63302, P41240, Q9H3M7, P53999, P68371, Q9NZU5, P11717, Q06187, Q06945, Q08334, Q8WXB4, Q02930, Q15027, Q93096, P62244, P11277, P50395, P30679

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GOID GO:0051641

TERM cellular localization

P-VALUE 1.98269010794088e-07

CORRECTED P-VALUE 0.000363625365796358

NUM_ANNOTATIONS 104 (of 1457)
ANNOTATED_GENES P41182, P09651, O00505, O00203, Q92624, O95486,
O00161, P01137, O15392, O60896, Q96IW7, O00628, P55916, P25098, P49755,
P31749, P05783, P25963, P63010, Q9H0V9, P43405, Q9P0J0, P61106, Q9ULZ3,
Q9H4M9, P07437, Q13796, Q9UBK9, Q92838, P06748, O95405, O15117, O14925,
O94979, P49754, Q96KC8, Q9UN86, Q01082, O43557, P62913, Q13596, P10071,
O00560, Q9H853, P12830, P10600, Q96EK5, P08240, O15533, O15126, Q9HC62,
P43307, Q9UHY1, Q15629, P10124, O75746, P14649, Q03014, O43516, O43747,
P50897, P61925, Q9H902, Q01105, P62826, Q96P20, P68363, P15311, Q8IXI2,
P16157, Q96P71, P55735, Q6UWC1, P27824, P42768, P43308, Q9GZY6, P35606,
P68371, Q99698, P68366, P60468, P33947, Q9Y5J9, O75494, Q9Y6X1, P30040,
P30273, O60684, O00148, P51571, P53618, O00629, Q9UKK6, O60763, P61619,
P31946, Q9GZP9, P62829, Q16611, Q13277, P45379, P35658, P61586

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GOID GO:0030029

TERM actin filament-based process

P-VALUE 2.09529306944584e-07

CORRECTED P-VALUE 0.000384276748936368

NUM_ANNOTATIONS 40 (of 384)

ANNOTATED_GENES O15511, P14649, P41182, Q8IXS6, O43516, Q12959,
Q9BT40, O95425, P47756, P15311, P08727, O15145, P53365, P42768, P31146,
P35241, P61158, Q13796, O75366, P13796, P60953, Q01518, O95466, P60981,
Q01082, P28289, O15144, P63261, O00560, P52566, P11277, P07737, Q15642,
P62330, Q9BPX5, O15085, P15153, P01111, P45379, P61586

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GOID GO:0046637

TERM regulation of alpha-beta T cell differentiation

P-VALUE 3.13685810990608e-07

CORRECTED P-VALUE 0.000575299777356775

NUM_ANNOTATIONS 8 (of 18)

ANNOTATED_GENES P31785, Q15306, P41182, P33681, O75995, P00491,
O00203, P43405

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GOID GO:0045934

TERM negative regulation of nucleobase, nucleoside, nucleotide and nucleic acid
metabolic process

P-VALUE 3.17690207536155e-07

CORRECTED P-VALUE 0.000582643840621308
NUM_ANNOTATIONS 49 (of 527)
ANNOTATED_GENES P41182, Q06546, Q03014, Q9HCS4, Q12830, P61925, Q96BD5, Q00577, Q14469, P01137, P63165, P32320, P40763, O75427, Q99967, Q15326, P48552, Q02535, P16989, P14316, P63279, Q53EL6, Q01658, O75190, P62277, Q9P0J0, O15534, P55055, O15054, Q06413, Q9NZU5, Q13422, P08651, Q03989, O43251, O75494, P62263, P31949, Q13207, P09429, P17947, Q9BRP0, P10071, P35227, P27348, O75943, P23396, Q12906, P17096

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GOID GO:0006119

TERM oxidative phosphorylation

P-VALUE 3.49382890826483e-07

CORRECTED P-VALUE 0.000640768221775769

NUM_ANNOTATIONS 25 (of 185)

ANNOTATED_GENES P07919, P05496, O15239, P22695, Q12887, P31930, O00483, P21281, O75306, P28331, O95169, P25705, Q06055, O75964, P14927, P19404, P27449, O43676, P48201, O75489, O43674, P51970, P18859, P06576, O75251

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GOID GO:0017038

TERM protein import

P-VALUE 3.65068364051036e-07

CORRECTED P-VALUE 0.000669535379669599

NUM_ANNOTATIONS 24 (of 173)

ANNOTATED_GENES P41182, Q92838, O00505, O95405, O15117, P61925, Q9Y5J9, Q9UN86, Q01082, P01137, O60684, O43557, P10071, O00628, P12830, Q96P20, O00629, P10600, P31749, P62829, P25963, Q9P0J0, P35658, P61586

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GOID GO:0030036

TERM actin cytoskeleton organization

P-VALUE 3.68732050443342e-07

CORRECTED P-VALUE 0.000676254580513089

NUM_ANNOTATIONS 38 (of 363)

ANNOTATED_GENES O15511, P41182, Q8IXS6, O43516, Q12959, Q9BT40, O95425, P47756, P15311, P08727, O15145, P53365, P42768, P31146, P35241, P61158, Q13796, O75366, P13796, P60953, Q01518, O95466, P60981, Q01082,

P28289, O15144, P63261, O00560, P52566, P11277, P07737, Q15642, P62330, Q9BPX5, O15085, P15153, P01111, P61586

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GOID GO:0006397

TERM mRNA processing

P-VALUE 4.04667276081806e-07

CORRECTED P-VALUE 0.000742159784334033

NUM_ANNOTATIONS 32 (of 279)

ANNOTATED_GENES P07910, O75940, P09651, P62314, Q9UK45, P09234, Q01081, P23246, P11940, P21127, Q92620, Q15233, O60936, Q13595, Q14493, O43791, Q15007, P52272, P31942, Q13247, O43251, O75494, Q15427, O00148, Q96MU7, Q15459, P17844, O60506, P51003, Q13243, P62304, P62995

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GOID GO:0010608

TERM posttranscriptional regulation of gene expression

P-VALUE 4.29463175792094e-07

CORRECTED P-VALUE 0.0007876354644027

NUM_ANNOTATIONS 25 (of 187)

ANNOTATED_GENES P62341, P26651, Q06945, Q9ULR5, Q96KC8, Q9H074, O60739, O75807, Q9BZQ8, Q9H0Z9, Q15056, P11940, P46782, P47974, P41567, P06730, P31749, Q8NEJ9, O15371, O00303, Q9P0J0, P55010, P98179, Q13542, P62701

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GOID GO:0006886

TERM intracellular protein transport

P-VALUE 4.53370784952294e-07

CORRECTED P-VALUE 0.000831482019602507

NUM_ANNOTATIONS 58 (of 678)

ANNOTATED_GENES P41182, O00505, O43747, P61925, O00203, Q92624, O95486, P01137, O60896, O00628, P62826, Q96P20, P31749, P05783, P55735, Q6UWC1, P25963, P63010, Q9P0J0, P43308, P35606, Q92838, P06748, P60468, O95405, O15117, O14925, P33947, Q9Y5J9, P49754, Q9UN86, Q01082, Q9Y6X1, P30040, O60684, O43557, P62913, Q13596, P10071, O00560, P51571, P12830, P53618, P10600, O00629, Q9UKK6, P08240, O60763, P61619, P31946, Q9GZP9, P62829, Q13277, Q9HC62, P43307, Q15629, P61586, P35658

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GOID GO:0042127 & cell proliferation

TERM regulation of cell proliferation

P-VALUE 4.88649449929783e-07

CORRECTED P-VALUE 0.000896183091171221

NUM_ANNOTATIONS 59 (of 696)

ANNOTATED_GENES P41182, P35226, P25025, Q969H8, O14494, Q04721, Q9UFF9, P55273, Q00577, Q14469, P01137, P56545, P25705, P08069, O75563, P62324, O14781, O75995, P09619, P43490, Q08722, P04179, P31146, P43405, P41240, Q14289, P62701, P46781, Q13418, P06748, P55209, P28908, P54852, Q06945, P13164, Q14106, Q13207, P31949, P51692, P08620, O95751, Q9BRP0, P10071, Q12999, P62244, P38936, P14317, P10600, P00491, O00453, P04899, P15153, P84095, P01111, Q9GZP9, P08575, P43307, P07948, Q12824

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GOID GO:0046649

TERM lymphocyte activation

P-VALUE 5.11006593747043e-07

CORRECTED P-VALUE 0.000937186092932077

NUM_ANNOTATIONS 34 (of 310)

ANNOTATED_GENES P31785, Q15306, P41182, Q6NYC1, O00203, Q15669, P16885, P55327, P01137, P39656, O75563, P33681, O75995, P61073, Q08722, P42768, P31146, P43405, P10914, P13612, Q9GZY6, Q99607, O00329, P15923, Q06945, P51692, O43557, P38936, P00491, P25942, O00453, P42226, P08575, Q8I WV1

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GOID GO:0022904

TERM respiratory electron transport chain

P-VALUE 5.20252835475506e-07

CORRECTED P-VALUE 0.000954143700262077

NUM_ANNOTATIONS 16 (of 85)

ANNOTATED_GENES P07919, O75746, O43676, O15239, Q12887, O00483, O75489, O43674, P51970, P04179, O75306, P28331, O75251, O95169, P14927, P19404

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GOID GO:0008154

TERM actin polymerization or depolymerization

P-VALUE 5.7503124667156e-07

CORRECTED P-VALUE 0.00105460730639564

NUM_ANNOTATIONS 17 (of 96)
ANNOTATED_GENES O15511, O75366, Q13796, P61158, O43516, O95425,
Q01082, P60981, O15144, P47756, P11277, P62330, Q9BPX5, O15145, P31146,
P42768, P35241

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GOID GO:0007015
TERM actin filament organization
P-VALUE 5.92933151139941e-07
CORRECTED P-VALUE 0.00108743939919065
NUM_ANNOTATIONS 22 (of 153)
ANNOTATED_GENES O15511, P13796, O75366, Q13796, P61158, Q8IXS6,
O43516, Q12959, O95425, Q01082, P60981, O15144, P47756, P11277, P62330,
Q9BPX5, P15311, O15145, P42768, P31146, P35241, P61586

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GOID GO:0009060
TERM aerobic respiration
P-VALUE 6.02898760908123e-07
CORRECTED P-VALUE 0.0011057163275055
NUM_ANNOTATIONS 13 (of 57)
ANNOTATED_GENES Q13423, P07919, P40925, O43837, O75390, P21912,
P50213, P40926, P22695, Q12887, P31930, P11177, P14927

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GOID GO:0052548
TERM regulation of endopeptidase activity
P-VALUE 6.14076667513126e-07
CORRECTED P-VALUE 0.00112621660821907
NUM_ANNOTATIONS 16 (of 86)
ANNOTATED_GENES P55211, P55273, O15392, Q9C000, Q96P20, O43847,
P23396, Q16611, O14727, P99999, P42224, O00291, Q13794, O75190, P11021,
Q9ULZ3

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GOID GO:0042775
TERM mitochondrial ATP synthesis coupled electron transport
P-VALUE 7.04209924574022e-07
CORRECTED P-VALUE 0.00129152100166876
NUM_ANNOTATIONS 14 (of 67)

ANNOTATED_GENES P07919, O43676, O15239, Q12887, O00483, O75489,
O43674, P51970, O75306, P28331, O75251, O95169, P14927, P19404

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GOID GO:0050789

TERM regulation of biological process

P-VALUE 9.7296945522562e-07

CORRECTED P-VALUE 0.00178442598088379

NUM_ANNOTATIONS 547 (of 10828)

ANNOTATED_GENES P31785, O95931, P98171, Q04771, Q00577, P40123,
Q92837, Q16600, O15145, Q8NG66, P61073, P78560, P53365, P51153, Q92609,
Q9Y576, P50749, P48730, P29992, Q96KC8, Q15759, Q01082, O76003, P09429,
O14497, Q07001, P25942, P09630, Q9HC62, P07949, P17096, P07948, Q13542,
P08123, Q03014, P18848, Q12778, P18084, P46100, O75787, Q15056, P08754,
Q8IXI2, O75586, P16157, Q8IW41, P26045, P04179, P63146, P11309, Q9BZZ5,
P35241, P55010, P23443, P50549, O75882, P30273, Q9UBN6, P28482, O00422,
P27348, P04899, Q99732, P54762, P42226, Q12968, P50750, Q96BD5, P16885,
Q9NQS1, P61247, Q99967, P25098, Q12905, P99999, Q9P0J0, Q96GM5, P15036,
Q13796, P62158, P36955, O00329, P54852, Q01518, P26651, Q9NPF2, O75807,
O15519, P57086, Q05DA6, Q15642, P10600, P32121, P51149, Q08345, Q32M63,
P84095, Q99471, Q6ZT07, P10124, Q969H8, P17081, Q04721, O43813, Q01105,
P21127, P62826, Q07820, Q15326, O60486, P21796, P23508, P14316, Q13232,
Q9NP74, P62263, P15498, P51692, P16284, P62988, P08620, P29375, P32245,
Q08999, P51532, P32519, O96013, O15511, Q14344, P09758, O95379, Q9UNS2,
O00203, P27816, Q92736, P56545, O60896, P84077, P31749, O14979, O60936,
P11474, Q96G23, Q13162, P08910, P25963, Q8N1W2, P07437, Q04725, O95405,
O15117, P29373, Q13422, Q6ZMJ9, O60907, Q9UN86, Q9H074, Q9BZQ8,
Q9UEG4, P10071, P62330, P42331, Q01968, Q16385, Q15771, P08514, Q13636,
O43670, Q13029, P25025, P50897, Q15669, Q16671, O15354, P25705, P29466,
Q96P71, O00303, O14727, O75190, P28562, P17861, P62277, P10914, P40425,
P11021, Q92754, Q9Y6M4, P60981, P47974, P14317, Q15303, Q9NSE2, O75489,
P13693, Q68HC0, Q12824, P24863, P55212, Q01543, Q12951, P55273, P40424,
P52565, P05783, O00291, Q13772, O14646, P13612, P61106, O15054, Q92838,
P55209, Q8TE02, O14519, Q14106, Q9Y3E0, P31949, O95817, Q08AR7, Q16621,
O00560, P12830, O43281, A2RQD6, Q86Z02, Q15438, O75019, P18850, P56211,
O76061, Q9ULV1, Q14738, Q9Y2A4, O00499, P49768, Q15208, O95158, P08069,
P29350, P62324, P46092, Q1ZYL3, P09619, P43490, Q53EL6, Q01658, Q9H2K8,
O43823, Q7Z5R6, O75494, P13164, P49795, P41218, O00712, O00257, Q16384,
Q96KM6, O00453, Q14241, P06576, P61586, Q15555, O60602, P41182, P25024,
P35609, Q9UK58, P50281, Q12959, Q9UJH8, Q9UFF9, O75411, Q14469, P32246,

P23246, P62253, Q04864, P32320, O75427, P48552, O15371, Q9H707, Q12982, O94844, P43405, Q9ULZ3, P98077, O15068, Q8N149, P61077, P08651, Q14790, P15923, Q9Y366, Q14103, P17275, P41567, Q6ZS44, P30556, P61244, P15153, P23396, P08238, O75581, O14867, O14494, Q6NYC1, O95425, P33552, P35269, P63104, Q96G25, O75563, P15311, P32927, P20290, P50895, Q08722, O14798, P01100, Q15788, P63279, P62701, P61158, P55055, O75164, P60953, Q13207, P46940, O95751, Q12999, Q9BRP0, P43250, P14625, O15304, O75943, Q12906, Q9GZP9, O75925, P35658, Q13362, O60759, Q10571, Q13177, Q15014, P48551, P63165, Q13263, P61978, O75995, P06730, O60224, O60603, O94989, P49137, P31146, Q07890, Q9NP99, Q99607, O00299, P51575, Q02833, O43251, O95865, P52566, O75155, P07737, O14862, P49674, Q04726, P62837, Q9UK73, P35226, O75810, P23511, P62753, P19438, O60828, P11940, O95238, P40763, O14781, P40616, O15534, Q9GZY6, O75366, Q13418, Q99698, P55211, O43306, O75474, P06241, O60383, Q9NPI5, O00178, Q13572, P00491, O60356, Q16611, P45379, P31689, P24468, Q15306, Q8IXS6, Q14161, Q9HCS4, Q06547, Q9ULR5, P55345, P05549, Q9NRJ4, P19397, P01137, O60739, O60238, Q9P1W9, Q9H0Z9, Q16633, P46782, O94953, P39019, Q08117, O75689, P16989, P06748, P61088, Q15545, P28908, Q03989, O43557, P35227, P48736, Q12796, Q9BPX5, O15085, Q9H204, Q6IQ32, P68871, P43307, P17535, O75940, P41220, Q86UE8, P23771, P10636, Q92750, P05771, O15211, P33681, Q14289, Q02779, Q92882, Q06413, P62341, P55317, P49459, P56270, P55061, P49773, P30281, Q9NVC6, O60503, Q9Y3A2, Q14494, Q86Z22, O95977, P01111, O75582, P50148, P10586, P19419, P08575, P48960, O15516, Q14314, Q06546, P29692, Q12860, Q15628, O15392, Q12981, P04808, P45877, Q15311, Q8NEJ9, P12757, Q02535, Q9H3Q1, Q13794, P98179, P46781, Q13075, O00468, O00472, Q15418, Q01196, Q05C50, P17947, O15144, Q9C000, P50150, P38936, O14836, P61225, Q9Nzd1, Q96FS4, P42224, Q8IwV1, Q658W4, P49716, P78552, P46734, P52736, P21580, P61925, Q12830, P49238, P47756, O15327, O95976, Q96P20, Q15233, O14880, O75339, Q15084, O43847, Q9UHK0, P50570, P63302, P41240, Q9H3M7, P53999, P68371, Q9NZU5, P11717, Q06187, Q06945, Q08334, Q8WXB4, Q02930, Q15027, Q93096, P62244, P11277, P50395, P30679

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GOID GO:0065007

TERM biological regulation

P-VALUE 1.03879513584924e-06

CORRECTED P-VALUE 0.00190515027914751

NUM_ANNOTATIONS 573 (of 11416)

ANNOTATED_GENES P31785, O95931, P98171, Q04771, Q00577, P40123, Q92837, Q16600, O15145, Q8NG66, P61073, P78560, P53365, P51153, Q92609,

Q9Y576, P50749, P48730, P29992, Q96KC8, Q15759, Q01082, O76003, P09429, O14497, Q07001, P25942, P09630, Q9HC62, P07949, P17096, P07948, Q13542, P08123, Q03014, P18848, Q12778, P18084, P46100, O75787, Q15056, P08754, Q8IXI2, O75586, P16157, Q8IW41, P26045, P04179, P63146, P11309, Q9BZZ5, P35241, P55010, P23443, P50549, O75882, P30273, Q9UBN6, P28482, O00422, P17174, P27348, P04899, Q99732, P54762, P42226, Q12968, P50750, Q96BD5, P16885, Q9NQS1, P61247, Q99967, P25098, Q12905, P99999, Q9P0J0, Q96GM5, P15036, Q13796, P62158, P36955, O00329, P54852, Q01518, P26651, Q9NPF2, O75807, O15519, P57086, Q05DA6, Q15642, P10600, P32121, P51149, Q08345, Q32M63, P84095, Q99471, Q6ZT07, P10124, O43315, Q969H8, P17081, Q04721, O43813, Q01105, P21127, P62826, Q07820, Q15326, O60486, P21796, P23508, Q8NBQ5, P14316, Q13232, Q9NP74, P62263, P15498, P51692, P16284, P62988, P08620, P38435, P29375, P32245, Q08999, P51532, P32519, O96013, O15511, Q14344, P09758, O95379, Q9UNS2, O00203, P27816, Q92736, P56545, O60896, P84077, P08195, P31749, O14979, O60936, P11474, Q96G23, Q13162, P08910, P25963, Q8N1W2, P07437, Q04725, O95405, O15117, P29373, Q13422, Q6ZMJ9, O60907, Q9UN86, Q9H074, Q9BZQ8, Q9UEG4, P10071, P62330, P42331, Q01968, P17844, Q16385, Q15771, P08514, Q13636, O43670, Q13029, P25025, P50897, Q15669, P06737, Q16671, O15354, P25705, P29466, Q96P71, O00303, O14727, O75190, P28562, P17861, P62277, P10914, P40425, P11021, Q92754, Q9Y6M4, P60981, P47974, P14317, Q15303, Q9NSE2, O43838, O75489, P13693, Q68HC0, Q12824, P24863, P55212, Q01543, Q12951, P55273, P40424, P52565, P28331, P05783, O00291, Q13772, O14646, P13612, P61106, Q9Y691, O15054, Q92838, P55209, Q8TE02, O14519, P01009, Q14106, Q9Y3E0, P31949, O95817, Q08AR7, Q16621, O00560, P12830, O43281, A2RQD6, Q86Z02, Q15438, O75019, P18850, P56211, Q01453, O76061, Q9ULV1, Q9Y2A4, Q14738, O00499, P49768, Q15208, O95158, P08069, P29350, P62324, P46092, Q1ZYL3, P09619, P43490, Q53EL6, Q01658, Q9H2K8, O43823, P31358, P33947, Q7Z5R6, O75494, P13164, P49795, P41218, O00712, O00257, Q16384, Q96KM6, O00453, Q14241, P06576, P61586, Q15555, O60602, P41182, P25024, Q9UK58, P35609, Q9UJH8, P50281, Q12959, Q9UFF9, O75411, Q14469, P32246, P23246, P62253, Q04864, P32320, O75427, P48552, Q9H707, O15371, Q12982, O94844, P43405, Q9ULZ3, P98077, O15068, Q8N149, P61077, P08651, Q9Y366, Q14790, P15923, Q14103, P17275, P41567, Q6ZS44, P30556, P61244, P15153, P23396, P08238, O75581, O14867, O14494, Q6NYC1, Q92506, O95425, P33552, P35269, P63104, Q96G25, O75563, P15311, P32927, O95461, P20290, P50895, Q08722, O14798, P01100, Q15788, P63279, P42768, P62701, P61158, P55055, O75164, P60953, Q13207, P46940, O95751, P08708, Q12999, Q9BRP0, P43250, P14625, O15304, O75943, Q9GZP9, Q12906, Q7L1T6, O75925, P35658, Q13362, O60759, Q10571, Q13177, Q15014, P48551, P63165, Q13263, P61978, O75995, P06730, O60224, O60603, O94989, P12235,

Q30201, Q9NP99, P49137, P31146, Q07890, Q99607, O00299, P51575, Q02833, O43251, O95865, P52566, O75155, P07737, O14862, P49674, Q04726, P08237, P62837, Q9UK73, P35226, O75810, P23511, P62753, P19438, O60828, P11940, O95238, P40763, O14781, P40616, Q13310, P62847, O15534, Q9GZY6, O75366, Q13418, Q99698, P55211, O43306, O75474, P06241, O60383, Q9NPI5, O00178, Q13572, P00491, O60356, Q16611, P45379, P31689, P24468, Q15306, Q8IXS6, Q14161, Q9HCS4, Q06547, Q9ULR5, P55345, P05549, Q9NRJ4, P19397, P01137, O60739, O60238, Q9P1W9, Q9H0Z9, Q16633, P46782, O94953, P39019, Q08117, O75689, P16989, P06748, P61088, Q15545, P28908, Q03989, O43557, P35227, P48736, Q12796, Q9BPX5, O15085, Q9H204, Q6IQ32, P68871, P43307, P17535, O75940, P41220, Q86UE8, P23771, P10636, Q92750, P05771, O15211, P33681, Q14289, Q02779, Q92882, Q06413, P62341, P55317, P49459, P56270, P55061, P49773, P30281, Q9NVC6, O60503, Q9Y3A2, Q14494, Q86Z22, O95977, P01111, O75582, P50148, P10586, P19419, P08575, P48960, O15516, Q14314, Q06546, P29692, Q12860, Q15628, O15392, Q12981, P04808, P45877, Q15311, Q8NEJ9, P12757, Q02535, Q9H3Q1, Q13794, P02686, P98179, P46781, Q13075, O00468, O00472, Q15418, Q01196, Q05C50, P17947, O15144, Q9C000, P50150, P38936, O14836, P61225, Q9Nzd1, Q96FS4, P42224, Q8IWV1, Q658W4, P49716, P46597, P78552, P46734, P52736, P21580, P61925, Q12830, P49238, P47756, O15327, O95976, Q96P20, Q15233, O14880, O75339, Q15084, O43847, Q9UHK0, P50570, P63302, P41240, Q9H3M7, P53999, P68371, Q9NZU5, P11717, Q06187, Q8WXB4, Q06945, Q08334, Q02930, Q15027, Q93096, P62244, P11277, P50395, P30679

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GOID GO:0008064

TERM ®ulation of actin polymerization or depolymerization

P-VALUE 1.04430321937355e-06

CORRECTED P-VALUE 0.00191525210433109

NUM_ANNOTATIONS 15 (of 79)

ANNOTATED_GENES O15511, O75366, Q13796, P62330, P61158, Q9BPX5, O15145, O95425, Q01082, P60981, O15144, P47756, P31146, P35241, P11277

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GOID GO:0052547

TERM regulation of peptidase activity

P-VALUE 1.1619114088612e-06

CORRECTED P-VALUE 0.00213094552385144

NUM_ANNOTATIONS 16 (of 90)

ANNOTATED_GENES P55211, P55273, O15392, Q9C000, Q96P20, O43847, P23396, Q16611, O14727, P99999, P42224, O00291, Q13794, O75190, P11021, Q9ULZ3

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GOID GO:0042773

TERM ATP synthesis coupled electron transport

P-VALUE 1.23430777797772e-06

CORRECTED P-VALUE 0.00226372046481114

NUM_ANNOTATIONS 14 (of 70)

ANNOTATED_GENES P07919, O43676, O15239, Q12887, O00483, O75489, O43674, P51970, O75306, P28331, O75251, O95169, P14927, P19404

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GOID GO:0016192

TERM vesicle-mediated transport

P-VALUE 1.42311672293533e-06

CORRECTED P-VALUE 0.00260999606986339

NUM_ANNOTATIONS 62 (of 770)

ANNOTATED_GENES O75131, Q6NYC1, Q7L8C5, O43747, O00499, P50897, O00203, O95486, Q92673, O00161, P01137, Q96T51, Q12981, O60896, Q96IW7, Q9P0N8, P84077, P61163, P49755, P16157, P50570, P05783, Q30201, P51153, P63010, Q9H0V9, O00291, P42768, P31146, P43405, P61106, Q9GZY6, Q9H4M9, P35606, Q99698, O95405, Q01518, P11717, P33947, Q13439, O94979, P63027, P49754, P15498, Q9Y3E0, P30273, Q13596, P53618, Q15642, P62330, O60763, P32121, P51149, O15533, P01111, O15126, Q13277, O75581, Q15438, Q15363, Q9UHY1, Q9P0V3

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GOID GO:0045321

TERM leukocyte activation

P-VALUE 1.56540914963455e-06

CORRECTED P-VALUE 0.00287096038042977

NUM_ANNOTATIONS 36 (of 355)

ANNOTATED_GENES P31785, Q15306, P41182, P25025, Q6NYC1, O00203, Q15669, P16885, P55327, P01137, P39656, O75563, P33681, O75995, P61073, Q08722, P42768, P31146, P43405, P10914, P13612, Q9GZY6, Q99607, O00329, P15923, Q06945, P51692, P30273, O43557, P38936, P00491, P25942, O00453, P42226, P08575, Q8I WV1

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GOID GO:0042306

TERM regulation of protein import into nucleus

P-VALUE 1.73367830009057e-06

CORRECTED P-VALUE 0.0031795660023661

NUM_ANNOTATIONS 10 (of 36)

ANNOTATED_GENES Q96P20, Q92838, P61925, Q9UN86, P25963, P01137, O43557, P10071, P12830, P61586

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GOID GO:0030097

TERM hemopoiesis

P-VALUE 1.93011881125007e-06

CORRECTED P-VALUE 0.00353983789983263

NUM_ANNOTATIONS 33 (of 314)

ANNOTATED_GENES P31785, Q15306, P41182, Q6NYC1, O00203, Q04721, Q15669, P16885, P55327, O75411, P01137, P33681, O75995, P39019, P25963, P04179, P43405, P10914, P13612, P60953, Q13422, P26651, P15923, Q06945, P62263, Q14106, P51692, Q01196, P17947, P14317, P00491, P08575, P07948

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GOID GO:0010629

TERM -negative regulation of gene expression

P-VALUE 1.93860281866453e-06

CORRECTED P-VALUE 0.00355539756943074

NUM_ANNOTATIONS 45 (of 497)

ANNOTATED_GENES P41182, Q06546, Q03014, Q9HCS4, Q12830, P61925, Q96BD5, Q00577, Q14469, P01137, O60238, P63165, P40763, O75427, Q99967, Q15326, P48552, Q02535, P16989, P14316, P63279, Q53EL6, Q01658, O75190, Q9P0J0, O15534, P98179, P55055, O15054, Q06413, Q9NZU5, Q13422, P08651, Q03989, O43251, P62263, Q13207, P09429, P17947, Q9BRP0, P10071, P35227, P27348, Q12906, P17096

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GOID GO:0010629 - gene expression

TERM negative regulation of gene expression

P-VALUE 1.93860281866453e-06

CORRECTED P-VALUE 0.00355539756943074

NUM_ANNOTATIONS 45 (of 497)

ANNOTATED_GENES P41182, Q06546, Q03014, Q9HCS4, Q12830, P61925, Q96BD5, Q00577, Q14469, P01137, O60238, P63165, P40763, O75427, Q99967, Q15326, P48552, Q02535, P16989, P14316, P63279, Q53EL6, Q01658, O75190, Q9P0J0, O15534, P98179, P55055, O15054, Q06413, Q9NZU5, Q13422, P08651, Q03989, O43251, P62263, Q13207, P09429, P17947, Q9BRP0, P10071, P35227, P27348, Q12906, P17096

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GOID GO:0043281

TERM regulation of caspase activity

P-VALUE 2.00900239908313e-06

CORRECTED P-VALUE 0.00368451039991845

NUM_ANNOTATIONS 15 (of 83)

ANNOTATED_GENES Q96P20, P55211, P23396, P55273, Q16611, P42224, O14727, P99999, O15392, Q13794, O00291, Q9C000, O75190, P11021, Q9ULZ3

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GOID GO:0006120

TERM mitochondrial electron transport, NADH to ubiquinone

P-VALUE 2.12080577690357e-06

CORRECTED P-VALUE 0.00388955779484114

NUM_ANNOTATIONS 11 (of 45)

ANNOTATED_GENES O43676, O15239, O00483, O75489, O43674, P51970, O75306, P28331, O95169, O75251, P19404

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GOID GO:0010558

TERM -negative regulation of macromolecule biosynthetic process

P-VALUE 2.38023267993811e-06

CORRECTED P-VALUE 0.00436534673500649

NUM_ANNOTATIONS 48 (of 549)

ANNOTATED_GENES P41182, Q06546, Q03014, Q9HCS4, Q12830, P61925, Q96BD5, Q9ULR5, Q00577, Q14469, P01137, P63165, P40763, O75427, Q99967, Q15326, P48552, Q02535, P16989, P14316, P63279, Q53EL6, Q01658, O75190, Q9P0J0, O15534, P55055, O15054, Q9Y576, Q06413, Q9NZU5, Q13422, P08651, Q03989, O43251, P62263, P31949, Q13207, P09429, P17947, Q9BRP0, P10071, P35227, P27348, O75943, Q12906, P17096, Q13542

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GOID GO:0010558 - macromolecule biosynthetic process

TERM negative regulation of macromolecule biosynthetic process

P-VALUE 2.38023267993811e-06

CORRECTED P-VALUE 0.00436534673500649

NUM_ANNOTATIONS 48 (of 549)

ANNOTATED_GENES P41182, Q06546, Q03014, Q9HCS4, Q12830, P61925, Q96BD5, Q9ULR5, Q00577, Q14469, P01137, P63165, P40763, O75427, Q99967, Q15326, P48552, Q02535, P16989, P14316, P63279, Q53EL6, Q01658, O75190, Q9P0J0, O15534, P55055, O15054, Q9Y576, Q06413, Q9NZU5, Q13422, P08651, Q03989, O43251, P62263, P31949, Q13207, P09429, P17947, Q9BRP0, P10071, P35227, P27348, O75943, Q12906, P17096, Q13542

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GOID GO:0008632

TERM apoptotic program

P-VALUE 2.58883672778172e-06

CORRECTED P-VALUE 0.00474792655875167

NUM_ANNOTATIONS 18 (of 118)

ANNOTATED_GENES Q6NYC1, P55211, P50897, Q9C000, Q9P1W9, Q07820, P31749, P21796, P23396, Q16611, O14727, P99999, P42224, O00291, Q13794, P04179, Q9P0J0, Q9ULZ3

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GOID GO:0006417

TERM regulation of translation

P-VALUE 2.65736216964732e-06

CORRECTED P-VALUE 0.00487360221913319

NUM_ANNOTATIONS 19 (of 130)

ANNOTATED_GENES P62341, Q9ULR5, Q96KC8, Q9H074, O60739, O75807, Q9BZQ8, Q15056, P46782, P41567, P06730, P31749, O15371, Q8NEJ9, O00303, Q9P0J0, P55010, Q13542, P62701

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GOID GO:0016481

TERM negative regulation of transcription

P-VALUE 3.44092905162551e-06

CORRECTED P-VALUE 0.00631066388068118

NUM_ANNOTATIONS 43 (of 476)

ANNOTATED_GENES P41182, Q06546, Q03014, Q9HCS4, Q12830, P61925, Q96BD5, Q00577, Q14469, P01137, P63165, P40763, O75427, Q99967, Q15326, P48552, Q02535, P16989, P14316, P63279, Q53EL6, Q01658, O75190, Q9P0J0,

O15534, P55055, O15054, Q06413, Q9NZU5, Q13422, P08651, Q03989, O43251, P62263, Q13207, P09429, P17947, P10071, Q9BRP0, P35227, P27348, Q12906, P17096

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GOID GO:0008064 & actin polymerization or depolymerization

TERM regulation of actin polymerization or depolymerization

P-VALUE 3.45890406500955e-06

CORRECTED P-VALUE 0.00634363005522751

NUM_ANNOTATIONS 14 (of 76)

ANNOTATED_GENES O15511, O75366, Q13796, P62330, P61158, Q9BPX5, O15145, O95425, Q01082, P60981, O15144, P47756, P35241, P11277

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GOID GO:0050871

TERM positive regulation of B cell activation

P-VALUE 3.83178584476088e-06

CORRECTED P-VALUE 0.00702749523929145

NUM_ANNOTATIONS 9 (of 31)

ANNOTATED_GENES P51692, P31785, P42226, P41182, O75995, P01137, P08575, P43405, P38936

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GOID GO:0046634

TERM regulation of alpha-beta T cell activation

P-VALUE 4.19471148417239e-06

CORRECTED P-VALUE 0.00769310086197217

NUM_ANNOTATIONS 8 (of 24)

ANNOTATED_GENES P31785, Q15306, P41182, P33681, O75995, P00491, O00203, P43405

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GOID GO:0051129

TERM negative regulation of cellular component organization

P-VALUE 4.21101417188055e-06

CORRECTED P-VALUE 0.00772299999122893

NUM_ANNOTATIONS 18 (of 122)

ANNOTATED_GENES O75366, Q13796, P60953, O95425, P10636, Q9ULR5, P27816, Q01082, P01137, P09429, P47756, Q01105, P11277, P62330, P17096, P31146, P35241, Q13542

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GOID GO:0034622

TERM cellular macromolecular complex assembly

P-VALUE 4.43185159782348e-06

CORRECTED P-VALUE 0.00812801583040827

NUM_ANNOTATIONS 58 (of 729)

ANNOTATED_GENES Q93077, O15511, P50750, O75940, Q9Y221, P62314, P10636, Q9ULR5, P84243, P35269, O60739, P61247, Q15056, Q01105, P46782, P68363, P06730, O15145, O15371, O00303, Q93079, P68431, P42768, O75251, P55010, Q14289, P07437, P68371, Q13247, P61158, P13498, P06748, P68366, P55209, Q15545, O95405, P16104, P56270, O00468, Q12887, O75494, P62263, Q92522, Q9NVC6, Q9H074, O15144, P09429, P08708, Q9H853, P41567, P62330, Q9BPX5, P23396, Q15459, P0C0S5, P62304, Q13243, Q13542

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GOID GO:0051253

TERM negative regulation of RNA metabolic process

P-VALUE 4.57791970592198e-06

CORRECTED P-VALUE 0.00839590474066091

NUM_ANNOTATIONS 36 (of 372)

ANNOTATED_GENES P41182, Q06546, Q03014, Q9HCS4, Q12830, P61925, Q96BD5, Q00577, Q14469, P40763, Q99967, Q15326, P48552, Q02535, P14316, P16989, P63279, Q01658, O75190, P62277, Q9P0J0, O15054, Q06413, Q9NZU5, Q03989, P08651, P62263, O75494, Q13207, P09429, P17947, Q9BRP0, P35227, P27348, Q12906, P17096

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GOID GO:0022411

TERM cellular component disassembly

P-VALUE 4.608159707077e-06

CORRECTED P-VALUE 0.00845136490277923

NUM_ANNOTATIONS 17 (of 111)

ANNOTATED_GENES O75366, Q13796, P56270, O95425, P50897, P10636, P27816, Q01082, P60981, P47756, Q16621, Q01105, P11277, P99999, Q13794, P17096, P35241

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GOID GO:0030832

TERM regulation of actin filament length

P-VALUE 4.75928693825399e-06
CORRECTED P-VALUE 0.00872853224475782
NUM_ANNOTATIONS 14 (of 78)
ANNOTATED_GENES O15511, O75366, Q13796, P62330, P61158, Q9BPX5,
O15145, O95425, Q01082, P60981, O15144, P47756, P35241, P11277

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GOID GO:0031327

TERM negative regulation of cellular biosynthetic process

P-VALUE 4.95665589395541e-06

CORRECTED P-VALUE 0.00909050690951423

NUM_ANNOTATIONS 48 (of 564)

ANNOTATED_GENES P41182, Q06546, Q03014, Q9HCS4, Q12830, P61925,
Q96BD5, Q9ULR5, Q00577, Q14469, P01137, P63165, P40763, O75427, Q99967,
Q15326, P48552, Q02535, P16989, P14316, P63279, Q53EL6, Q01658, O75190,
Q9P0J0, O15534, P55055, O15054, Q9Y576, Q06413, Q9NZU5, Q13422, P08651,
Q03989, O43251, P62263, P31949, Q13207, P09429, P17947, Q9BRP0, P10071,
P35227, P27348, O75943, Q12906, P17096, Q13542

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GOID GO:0046632

TERM alpha-beta T cell differentiation

P-VALUE 5.13003723981849e-06

CORRECTED P-VALUE 0.00940848829782711

NUM_ANNOTATIONS 9 (of 32)

ANNOTATED_GENES P31785, Q15306, P41182, P33681, O75995, P00491,
O00203, P10914, P43405

4. Genes from the biggest cluster of correlation vectors

P-value cutoff 0.01

Calculate FDR Yes

Gene list Uploaded file Biggest_Cluster.dat_SwissProt.dat

Annotation file gene_association.goa_human

Evidence codes included IEA IEP IGI NAS IPI ND IC ISS NR RCA IDA IMP
TAS

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Terms from the process ontology with p-value ≤ 0.01 .

The total number of genes used to calculate the background distribution of GO terms is 38594.

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GOID GO:XXXXXXXX

TERM unannotated

P-VALUE 1.45385826156082e-86

CORRECTED P-VALUE 4.06934927410873e-83

NUM_ANNOTATIONS 1795 (of 11418)

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Q6PKH9, Q6P2R4, Q17RH5, Q9UMX8, Q8WYV9, Q9NZW6, Q52LS7, A2RUA0, Q95712, Q2PAD7, Q9NWP0, Q548M6, Q59GK7, Q9C0E4, Q9BVQ7, Q3KP44, Q08ET8, Q4VTT3, Q4KMX7, A1L4C5, Q2HXV1, O15206, Q24JS4, Q8IU63, A0PJU8, Q9P1G9, Q6YJI3, Q86XV1, Q9P166, Q96HU6, Q4G0Y8, Q6ZMK1, Q5CZ82, Q969N5, Q6NSX4, Q2TAM4, Q9C091, A1L421, Q566Q2, P51825, A0AVD7, Q4G0V0, Q9HAF0, A0AVP6, Q52LK8, Q05DR2, Q8N442, Q6NTC9, Q96AJ1, Q2TAC2, Q29RX7, O00247, Q0VAG7, A2RUI4, A2BDD9, Q4G134, Q9H745, O75154, A2RRP8, O00547, Q59FT8, Q4G0W6, Q32MQ2, Q68CV8, Q9NYQ2, Q96KF7, Q9P1G2, Q71RF5, Q53FH5, O14790, Q9NV39, Q53YU7, Q2TB00, A1L4F9, A0PJV4, Q6NUI8, Q8ND07, Q9NXP9, Q3SXM9, A1KY36, A0FDN6, A2RRQ9, Q5T3I0, Q8N743, Q9NXI6, O76070, Q9NW61, Q8N7K3, P02545, A0PJF8, Q7L876, Q7Z5E7, Q6ZUY1, Q8NHK4, Q0VGM6, Q9BYH2, Q6NWP4, A1L4K2, O95641, A2RUN2, O60676, Q86X67, Q6ZNP9, A1L0U9, Q6NYC6, Q9GZZ7, Q53Y35, Q9H349, Q2TB81, A0AVS9, Q6ZT30, Q5BKU6, Q8NE34, Q53G47, Q9HAJ0, Q9P136, Q8IW56, Q96AN5, Q32UJ0, Q13425, Q9UI57, Q13410, Q68DI8, O77966, A0A4Z1, A1L3Y2, Q495V8, Q08EJ9, A1A510, Q8IWY9, P49646, O43237, Q14147, A0PJI9, Q9H800, Q6I9X7, Q4KN04, Q5H9N7, Q6ZTI2, P05184, A1A4Z4, A0T4C8, Q14422, Q6ZWF5, Q8NAM4, Q6XYC3, Q6PEY9, Q9UHU2, Q6PJF4, Q0P5R3, Q6P526, Q32LY1, A2RTZ9, Q5ICN7, Q8NE73, Q14C73, Q9BYA0, Q3B7T3, Q96GL9, Q32M35, Q8WTV1, Q05524, Q53Y57, Q8WTW9, Q17RQ6, Q3SX80, Q0VAD3, Q9P267, Q14D68, Q14543, Q8TE67, A3KMG0, Q53HE0, Q9UI72, Q8N755, Q4VAM4, A1L447, Q12899, Q5W199, Q6I9Q8, O75071, Q59GS4, Q2KHR3, O43467, Q5R371, Q9H5P4, Q1ZYL9, P36980, Q53F65, Q6ZNY5, Q9Y4N5, Q9BV19, A2RRE5, Q6IFM3, Q6VAK5, Q8TCK0, Q9H051, P27635, O14792, Q17RE6, Q8N8T3, Q05BP9, Q53XZ8, A1A5C4, Q9Y442, Q05CF5, Q9HA94, O97985, Q9HAH7, Q6P1Q3, Q5PRF9, Q3ZCM5, Q0VDA5, Q5HYG9, Q9P1F8, Q96BK8, Q9H926, Q8N4I4, O15061, A2NHL8, Q96FK3, Q86XC4, Q3SYA6, Q76N27, Q8WVC1, O14669, A1A574, O95327, Q4KN31, Q8NHP6, P26373, Q9BV23, Q9H721, Q05BT0, Q9UJK0, A2RU67, Q53GJ9, A0AUK4, Q2TAK4, Q53GB1, Q8N9I4, A1A4V2, Q96RM9, Q9H8K0, Q8N2L6, Q9UN01

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GOID GO:0032501

TERM multicellular organismal process

P-VALUE 2.67275771556409e-54

CORRECTED P-VALUE 7.48104884586389e-51

NUM_ANNOTATIONS 839 (of 4721)

ANNOTATED_GENES P50391, P57679, O15130, Q9Y6N9, Q01534, O95631, P01258, P20849, Q00577, Q13105, O14829, P32302, Q9NYW3, Q9NPF7, P30872,

Q0VDD7, Q9HBY0, P13489, O43186, Q96J94, P23975, P98161, Q9NPA1, Q13449, P21980, Q16568, P10745, Q9Y576, Q99581, P43007, O15150, P00748, O43897, P51172, O15399, Q06520, P31213, Q9H255, O60258, P22105, Q16620, P32238, P25942, P30989, P03952, Q04844, Q6W4X9, Q9NR12, Q12950, P12821, Q68DL5, Q13214, P20809, Q99742, P40879, Q9NYV7, O75787, Q9C019, Q02548, Q05066, P11488, P21359, O60755, P98088, Q08828, O43898, P78504, O75916, P37058, P41180, O15522, Q13467, Q14203, Q9UI40, Q17R60, P01374, Q86W47, Q99958, P51178, P29762, P43320, O95980, P47881, Q9Y5M6, Q9HCN6, Q9UL68, Q9UBT3, P50553, P28476, P43080, Q15150, O43789, Q14DW8, O75326, A1A4U0, P49116, Q92988, O95390, P54762, P49286, P01135, O95861, P17181, P02452, Q68CQ4, O95754, Q9H2A3, O94788, P35913, P05160, Q9UKL2, P42261, P19087, Q08174, Q68CZ1, P23942, Q9Y6H8, O00526, Q01955, P62736, P25098, O75093, Q13224, P31645, O00358, Q13972, O75445, P25189, O43612, Q9NYV9, P31025, P51512, O75106, P16615, P28356, Q9P2T0, P02489, Q9NP08, Q13753, O95500, Q13956, O00238, O95076, P22748, Q15618, Q92563, Q13255, Q01726, P47928, Q9UQ52, P02748, Q99928, P00439, P56373, P57058, Q14004, Q9H2H0, P10070, P31267, P41145, P01286, P47900, P06727, P19099, Q04721, P54259, Q9H488, Q8TC59, P35348, Q13705, P47872, P08151, Q9NYW0, O15540, Q8IYT8, P51826, O43347, O00555, P98177, P55285, Q16254, Q9UBU2, O14830, Q12879, P55895, P28221, Q9NWH7, Q13402, Q96RI0, O60220, O15547, P62263, P98153, P62988, P11487, P08620, O14994, O75094, O14815, O60262, P32245, Q99626, Q05086, Q16566, P37288, Q07687, P26927, Q9GZZ6, Q92786, Q14142, O94887, Q14602, O43316, O14511, P78562, Q9BXM0, P09758, O00203, O60481, P01730, Q9NRC9, Q9NYV8, Q9BZS1, Q15835, P12271, Q14641, P15291, Q9GZY0, A1L0T6, P53805, Q8NFI1, Q13285, P30988, P25054, O60939, P00797, P43005, O60542, Q9Y5L5, P10767, P10071, P50222, P35372, Q14202, P41146, O15415, P52564, O43193, P14921, P34969, Q9Y463, P28223, P19235, P10828, Q15613, O60500, P17542, Q15784, Q14507, P21781, Q13939, O95264, Q3SYG4, Q14565, P56179, O95237, Q03181, O76002, Q16671, Q92903, Q9Y5Y9, O00192, O96001, Q13950, Q01538, O43435, P41586, Q9UHC6, Q9UJU5, O00253, Q12849, P04085, P84022, O14727, Q02763, Q02410, O43184, Q08289, P40425, P00790, P01130, P17661, O14581, Q13520, O60938, P49640, Q13485, P14416, P51170, O95202, Q15761, P61296, P13631, Q12791, Q9HBE4, P22891, O60235, Q9NRE2, P17787, Q15777, Q15303, P10082, Q03052, Q13461, Q8NFI4, O95863, O60229, Q12824, P41235, P18428, O43365, Q08188, Q9UHL0, Q12951, O15198, P25103, P47887, Q9UGM1, Q15247, P16471, P42127, P08519, Q04912, O95759, P47989, Q9UJ96, P41594, P61106, Q9Y691, Q92838, P47874, P47871, O15537, P29973, P01009, P52803, Q07955, P02753, P31249, Q9BXJ7, Q8N196, P34820, P26441, O43636, O60344, P57082, P17482, P52701, P14770, P05111, P78363, P11473, O14813, Q13635, Q15825, Q13370, O43613, Q9NQ87, P61968, Q12840, Q99801, O43711, P08034, P37088, P56693,

Q14738, P47902, P62942, P12104, P47211, P51679, Q9H2C1, Q14831, Q9GZU5, O75360, P22612, Q6NT51, P56178, O60721, Q13886, O15492, P55347, P17405, Q14576, P30874, O00634, Q12952, P30968, P04628, P25100, O75593, P35368, P14091, P35527, O00254, O00425, Q5VVI0, P35556, Q96PF2, O43248, Q16478, Q99835, Q9UBC0, Q00975, O60266, P42898, P22888, Q02962, Q06710, O95475, P53667, P09544, O15266, Q14416, Q14469, O15353, Q04864, O75427, O95918, Q16635, P02818, O43614, O14773, P07316, Q15465, Q05329, P09172, Q9UHD0, P22607, P17509, P15923, P43681, P31270, P08700, P13497, Q8WZ75, O95948, Q04741, Q99453, P01588, P05813, Q12837, P15313, O75581, Q02080, P08100, Q03395, P51160, P47804, P36575, O60663, P01225, O60921, P21728, P03999, P33765, O14804, P48742, P06401, O14788, P61812, P78540, Q59GJ8, P02649, Q9Y3N9, P20800, P23946, P14651, A0PK02, Q05586, P15289, O14753, Q00653, P24043, O95365, P22466, Q9BQ70, O15146, P60953, P51843, P28845, Q9UK32, Q16281, O95450, P28358, Q9BRP0, P06744, Q9NYW1, Q8IXF0, P56703, P16499, P08912, Q86VD1, P26436, P47890, O15178, P21246, Q15768, P54760, P19622, O95947, Q9P2R6, Q09470, Q9UKW6, P58182, Q6UWB1, O95185, O75508, P14138, Q06430, P16150, P55073, Q5T4F7, Q9HAV5, P05177, Q99963, P40197, Q14993, O60447, Q3ZCU4, Q16518, Q13607, Q9HB89, Q02577, O76099, P11831, Q01064, Q14318, P01127, Q06587, P49638, P09471, P16520, Q15329, P35243, P52594, Q93098, P49335, Q16558, O95025, Q9UHF3, O15259, Q96R84, P36896, O00482, P07359, O95834, P51841, P56696, P18075, Q9Y277, O60890, Q02505, P27037, P40205, Q53GA4, O95238, P20908, P50052, P31273, P22003, Q12816, Q99440, Q13862, P41743, O76093, P15863, P13688, Q15762, Q13884, Q9H306, Q9NYW6, P30048, O75366, Q03431, O14786, P55107, P54252, Q13795, P17677, A1A5C6, Q13117, Q9H3D4, P60660, Q9UH65, Q14093, Q13103, Q13606, P35680, O00445, O95259, Q15319, O95222, Q15306, Q13515, P09017, P46098, O15079, P09067, O75382, P05549, P23582, Q93097, Q8WWQ8, P10827, P15248, Q8TDN2, P18545, Q9HAB4, Q9UGP4, P30939, Q9Y585, P16989, P36897, P41970, Q9NZM1, Q9NZW4, P21815, O00294, O75161, Q03721, P43220, Q14500, P53674, Q9Y2K3, P30301, P28908, Q14623, Q14990, P10747, P47901, P08172, O00222, P41181, P28370, P35227, P26998, P30542, P52945, Q9UGF7, Q99750, Q12870, P82279, O15085, P35663, P53708, P05067, Q3SYC2, P10588, Q13003, P78367, P17900, O14514, P98172, O95813, Q9Y698, Q9GZV9, P56706, P50406, Q05901, Q16650, O15457, P25391, O95477, P33681, P12645, P48431, P26374, Q02446, Q14012, O14490, O75083, O75829, P49454, P21452, O60248, Q9UBR4, O60931, P13569, O15202, Q9Y2Y8, P58173, Q9Y3Q4, O43526, O43749, O60609, P23759, P49815, Q86YL7, Q9Y5E3, O15156, P23760, O00755, O14926, O00590, O60462, Q05952, P50148, Q02297, O00115, P05106, Q07603, P06213, P78424, Q07352, P39086, P23415, Q14190, P28222, Q13835, P35548, P23945, O60404, Q9Y261, O75311, P13942, Q9H161, Q5FVE4, Q9Y3Y4, Q15628, O60882, Q13507, P09016, P21918,

P32856, Q13474, P23769, P10276, O95231, P01298, Q13002, Q14532, P15056, P12757, Q04724, O60403, Q16099, Q9NRE1, O96004, P43146, P06340, P24347, O76050, P35221, O43603, Q13769, O60902, O00468, O95183, O60840, Q9HC10, Q01196, Q9H9P2, P05556, P08842, Q14055, Q12955, Q13653, O43555, O00295, O00230, Q16820, Q9Y5H9, Q14863, A1E959, P53673, O75553, P32297, P16234, P34982, Q92481, Q02643, Q14183, Q9UBY8, P48058, P35240, P08588, Q99218, P09603, P47870, P03951, P54845, O15420, Q9H694, P28335, O95416, O60725, Q9H7Z6, Q9P212, Q15078, O75762, Q9Y6L7, Q9BXA7, O00587, Q06945, O14531, P46109, P31644, Q5T230, Q15878, P20941, O75603, P26992, P50135, Q9UMR5, Q9NQN1, Q9H295, P54257, P28566, O75920, P57727, Q02575, Q15116, P41143, Q9UKL4, P07320, Q9P1A6, O15296, P32247, P15382, P22301, O00144, O43318, Q14032, Q02846, Q07075, O43763, Q14573, O75364

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GOID GO:0007267

TERM cell-cell signaling

P-VALUE 4.67117857484802e-38

CORRECTED P-VALUE 1.30746288309996e-34

NUM_ANNOTATIONS 208 (of 758)

ANNOTATED_GENES P78562, Q9BXM0, P01563, O15130, O43699, P46098, O15079, P32971, Q14416, P09544, P30872, Q12913, Q14641, P23975, P12872, Q9HAB4, Q9NPA1, P30939, O43614, Q13285, O43921, Q15465, P18509, O60939, P43005, Q16568, Q05329, P43220, Q03721, P09172, P80098, Q14623, P43007, Q99988, P43681, O00222, P31270, P10767, P08700, P30542, P52945, P31213, O60258, P30989, P82279, Q04844, P34969, P28223, Q13214, P41273, Q13003, O95264, Q9NR48, P20809, P98172, Q9Y698, P56706, P21728, O75896, P50406, Q03181, Q05901, O14804, P40933, P06401, P61812, P21359, P47992, P12645, P33681, O60755, P02649, Q9UHC6, P35225, P04085, Q05586, O14490, Q02763, Q02410, P24043, P22466, Q16552, P01374, O15146, Q86W47, O95297, P14416, Q15761, O43526, P28476, Q12791, P56703, P17787, Q14DW8, P08912, Q9Y5E3, P10082, O00755, P49286, Q03052, P15514, Q15768, P50148, Q09470, P28222, P23415, P39086, P32745, O75508, O95754, O75311, P14138, P42261, Q08174, P21918, Q9Y6H8, Q9NPH9, Q13002, P42830, P42127, Q13588, Q16099, Q13224, P31645, Q13972, P01567, Q9HB89, P41594, O43612, P25189, O00175, O43603, P61106, Q9Y691, P47874, O00468, P52803, P02753, P01222, P00709, O60344, Q13255, P05111, O00233, Q99928, O00230, P00439, Q93098, P56373, Q15825, Q16558, O43613, Q13370, Q12840, P41145, P32297, P01286, O95389, P08034, Q9HC96, Q02643, Q9Y277, Q14183, Q9UBY8, P48058, P35348, Q9H2C1, Q14831, P08151, P41587, P47870, O76093, O00555, P28335, Q12879, Q14512, P30874, O14786, P28221, P08949, P54252, P25100, P62988, Q15878, P11487, P08620,

P35368, P55196, O14994, P32245, P54257, P48023, P28566, Q9UKL4, O43248, Q9P1A6, Q16566, Q8NCG5, Q16478, P22301, Q9GZZ6, Q99835, O00445, O15467, Q00975, Q07075, Q5T442, P32970

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GOID GO:0003008

TERM system process

P-VALUE 4.487001532428e-28

CORRECTED P-VALUE 1.2559117289266e-24

NUM_ANNOTATIONS 333 (of 1701)

ANNOTATED_GENES O60266, P50391, P42898, O15130, Q02962, Q9Y6N9, O95475, Q14416, P09544, O14829, Q9NYW3, O95918, O43186, P23975, Q16635, Q9NPA1, O43614, O14773, Q16568, Q05329, P10745, P09172, P22607, P43007, P43681, P51172, O15399, Q9H255, P30989, P01588, Q12837, Q04844, P05813, Q6W4X9, P15313, P12821, P08100, Q03395, P51160, P36575, P47804, P40879, Q9NYV7, P21728, P03999, O75787, P33765, O14804, P11488, P61812, P21359, P78540, O60755, P02649, Q9Y3N9, P20800, Q05586, Q08828, O75916, Q9UI40, P24043, P22466, Q17R60, P01374, O15146, Q86W47, Q16281, P43320, P47881, Q9Y5M6, P28358, P28476, P43080, Q9NYW1, O43789, P16499, P08912, P47890, P49286, P21246, Q09470, P02452, P58182, O75508, P14138, P35913, Q9UKL2, P42261, P19087, Q5T4F7, P23942, Q9Y6H8, Q01955, P62736, P25098, Q13224, P31645, Q13972, Q13607, Q16518, Q9HB89, O75445, P25189, O43612, Q9NYV9, O76099, P31025, O75106, P02489, P11831, Q01064, O95500, Q13956, P09471, P22748, P16520, Q15618, Q13255, P35243, Q99928, P00439, P56373, P49335, Q16558, O15259, P41145, Q96R84, P19099, P51841, O95834, P56696, Q9Y277, Q02505, P35348, P47872, P50052, Q9NYW0, Q13884, O00555, Q9NYW6, Q16254, O14830, Q12879, P28221, Q13402, P54252, O60220, O15547, P62988, O14994, P60660, Q13606, Q16566, P37288, Q9GZZ6, Q15319, O00445, O95222, Q14602, Q9BXM0, Q13515, P09758, P46098, O15079, Q9NRC9, P23582, Q9NYV8, P12271, Q15835, P10827, Q8TDN2, P18545, Q9HAB4, Q8NFMU1, P53805, P30939, Q9Y585, Q9NZM1, Q9NZW4, P00797, O60939, P43005, O00294, Q03721, P43220, Q14500, P53674, Q9Y2K3, P30301, P47901, P08172, O00222, P41181, P50222, P26998, P35372, Q9UGF7, Q12870, P41146, P82279, O15085, P52564, P34969, P28223, P10828, P53708, P05067, Q3SYC2, O60500, Q15613, P10588, Q15784, Q13003, O95264, P17900, Q9Y698, P50406, Q3SYG4, O95237, Q03181, Q05901, O76002, Q92903, Q9Y5Y9, P26374, P48431, Q9UHC6, Q02446, O14490, Q02410, O75083, P21452, P01130, P17661, O14581, Q13520, O60931, O60938, P14416, P51170, P13569, P58173, Q9Y3Q4, Q15761, O43526, O43749, Q12791, P17787, Q9Y5E3, P23760, O00755, O14926, Q03052, P50148, P78424, P39086, P23415, P28222, O60404, O75311, P13942, Q13507, P47887, P21918, Q9UGM1, Q13002, O60403,

Q16099, P08519, O95759, P41594, Q9UJ96, P61106, O43603, Q9Y691, P47874, P47871, O15537, P29973, O00468, Q07955, O60840, Q9HC10, P02753, Q9BXJ7, Q8N196, O43636, P11473, P78363, O00295, O00230, Q15825, O43613, P53673, Q12840, P32297, O43711, P37088, P56693, P34982, Q14183, Q9UBY8, P48058, P35240, P08588, Q14831, Q9GZU5, P47870, P54845, O60721, O15492, P28335, O75762, Q9P212, P25100, Q15878, P31644, P20941, P35368, Q9NQN1, P54257, P28566, P57727, Q9UKL4, P07320, Q9P1A6, Q16478, P32247, P15382, O00144, Q02846, Q00975, Q14573

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GOID GO:0007275

TERM multicellular organismal development

P-VALUE 1.01179788460238e-27

CORRECTED P-VALUE 2.83202227900206e-24

NUM_ANNOTATIONS 540 (of 3206)

ANNOTATED_GENES P57679, Q01534, O95631, P01258, P20849, Q00577, Q13105, P32302, Q0VDD7, Q9HBY0, P13489, O43186, Q96J94, P98161, Q13449, P21980, Q16568, Q9Y576, Q99581, O15150, O43897, P31213, O60258, Q16620, P32238, Q9NR12, Q12950, P12821, Q68DL5, Q13214, P20809, Q99742, Q9C019, Q02548, Q05066, P21359, O43898, P78504, P37058, P41180, O15522, Q13467, Q14203, P01374, Q99958, P51178, P29762, O95980, Q9UL68, Q9UBT3, P50553, Q14DW8, O75326, A1A4U0, P49116, Q92988, O95390, P54762, P01135, O95861, P02452, Q68CQ4, O95754, Q9H2A3, O94788, Q08174, Q68CZ1, P23942, O00526, Q01955, P25098, O75093, Q13224, O00358, Q13972, O75445, P16615, P28356, Q9P2T0, Q9NP08, Q13753, O00238, O95076, Q92563, Q01726, P47928, Q9UQ52, P57058, Q14004, Q9H2H0, P10070, P31267, P01286, Q04721, P54259, Q9H488, Q8TC59, Q13705, P08151, O15540, Q8IYT8, P51826, O43347, O00555, P98177, P55285, Q16254, Q9UBU2, Q12879, P55895, Q9NWH7, Q13402, O60220, P62263, P98153, P62988, P11487, P08620, O75094, Q99626, Q05086, Q07687, Q92786, Q14142, O94887, O43316, O14511, P78562, Q9BXM0, O00203, O60481, P01730, Q9NRC9, Q14641, Q15835, P15291, Q9GZY0, A1L0T6, P53805, Q13285, P25054, P30988, P00797, O60542, Q9Y5L5, P10767, P10071, P50222, Q14202, O15415, P14921, Q9Y463, P19235, P10828, P17542, Q15784, P21781, Q13939, Q14565, P56179, Q03181, Q16671, O00192, O96001, Q13950, Q01538, O43435, P41586, Q9UJU5, Q12849, P04085, O14727, Q02763, Q02410, O43184, Q08289, P40425, Q13485, P14416, P49640, O95202, P61296, P13631, Q12791, Q9HBE4, Q9NRE2, P17787, Q15777, Q15303, Q03052, Q13461, Q8NFY4, O95863, O60229, Q12824, O43365, Q08188, Q9UHL0, Q12951, O15198, Q9UGM1, P16471, Q04912, Q92838, O15537, P52803, Q07955, P02753, P31249, Q9BXJ7, Q8N196, P34820, P26441, O60344, P57082, P17482, P52701, P05111, P11473, O14813, Q13635, Q13370,

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GOID GO:0048856

TERM anatomical structure development

P-VALUE 4.63366367021048e-27
CORRECTED P-VALUE 1.29696246129191e-23
NUM_ANNOTATIONS 486 (of 2822)
ANNOTATED_GENES P57679, P22888, Q02962, Q01534, Q06710, Q12959,
O95475, O95631, P53667, O15266, P09544, P20849, Q00577, Q14469, O15353,
P32302, O75427, Q9HBY0, P13489, O43186, P98161, Q16635, Q13449, P21980,
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P17509, P15923, P31270, P08700, P13497, O43897, Q8WZ75, O95948, P31213,
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P01135, O95861, P02452, Q9UKW6, Q6UWB1, O95754, O95185, O75508, Q9H2A3,
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O00526, Q01955, Q99963, P25098, Q14993, O60312, O75093, Q13224, O00358,
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GOID GO:0048731

TERM system development

P-VALUE 7.72527360720293e-27

CORRECTED P-VALUE 2.1623040826561e-23

NUM_ANNOTATIONS 441 (of 2497)

ANNOTATED_GENES P57679, P22888, Q02962, Q01534, Q06710, O95475, O95631, P53667, O15266, P09544, P20849, Q00577, Q14469, O15353, P32302, O75427, Q9HBY0, P13489, O43186, P98161, Q16635, Q13449, P21980, P02818, O14773, P07316, Q15465, Q16568, Q9Y576, Q99581, P22607, O15150, P17509, P15923, P31270, P08700, P13497, O43897, Q8WZ75, O95948, P31213, O60258, Q16620, P32238, Q99453, P01588, Q12837, Q9NR12, P15313, P12821, Q02080, Q68DL5, Q13214, O60663, P01225, P20809, Q99742, P21728, Q9C019, Q02548, P06401, P48742, O14788, P61812, P21359, P02649, P14651, A0PK02, O14753, P15289, O43898, Q00653, P78504, P37058, P41180, O15522, Q14203, P24043, P22466, Q9BQ70, P01374, O15146, P60953, P51843, P28845, Q99958, P51178, Q9UK32, O95980, O95450, P28358, Q9UL68, Q9BRP0, P50553, P56703, Q14DW8, O75326, A1A4U0, P49116, O95390, P54762, P21246, O15178, Q15768, P54760, O95947, P19622, P01135, O95861, P02452, Q9UKW6, Q6UWB1, O95754, O95185, O75508, Q9H2A3, P14138, O94788, P16150, Q9HAV5, Q08174, Q68CZ1, P05177, P23942, Q01955, Q99963, P25098, Q14993, O75093, Q13224, O00358, Q13972,

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GOID GO:0050877

TERM neurological system process

P-VALUE 1.44210266231089e-25

CORRECTED P-VALUE 4.03644535180817e-22
NUM_ANNOTATIONS 272 (of 1338)
ANNOTATED_GENES O60266, O15130, Q02962, Q9Y6N9, O95475, Q14416, P09544, O14829, Q9NYW3, O95918, O43186, P23975, Q9NPA1, O43614, O14773, Q16568, Q05329, P10745, P09172, P22607, P43007, P43681, P51172, O15399, Q9H255, P30989, Q12837, Q04844, P05813, P15313, P08100, Q03395, P51160, P47804, P36575, Q9NYV7, P21728, P03999, O14804, P11488, P21359, O60755, P02649, Q9Y3N9, Q05586, Q08828, O75916, Q9UI40, P24043, P01374, Q17R60, O15146, Q86W47, Q16281, P43320, P47881, Q9Y5M6, P28358, P28476, P43080, Q9NYW1, O43789, P16499, P08912, P47890, P49286, P21246, Q09470, P02452, P58182, O75508, P14138, P35913, Q9UKL2, P42261, P19087, Q5T4F7, P23942, Q9Y6H8, Q01955, Q13224, P31645, Q13972, Q13607, Q16518, Q9HB89, O75445, P25189, O43612, Q9NYV9, O76099, P31025, O75106, P02489, Q01064, O95500, Q13956, P22748, Q15618, Q13255, P35243, Q99928, P00439, P56373, P49335, Q16558, P41145, Q96R84, O95834, P51841, P56696, Q9Y277, P50052, Q9NYW0, O00555, Q9NYW6, O14830, Q12879, P28221, Q13402, P54252, O60220, P62988, O14994, Q13606, Q16566, Q9GZZ6, Q15319, O00445, O95222, Q13515, Q9BXM0, P09758, P46098, O15079, Q9NRC9, Q9NYV8, P12271, Q15835, Q8TDN2, P18545, Q9HAB4, Q8NFM1, P30939, Q9Y585, Q9NZW4, O60939, P43005, O00294, Q03721, P43220, P53674, P30301, O00222, P26998, P35372, Q9UGF7, Q12870, P41146, P82279, P34969, P28223, P10828, P53708, P05067, Q15613, P10588, Q15784, Q13003, O95264, P17900, Q9Y698, P50406, Q3SYG4, Q03181, O95237, Q05901, O76002, Q92903, Q9Y5Y9, P26374, P48431, Q9UHC6, O14490, Q02410, O75083, O14581, O60931, O60938, P14416, P51170, P58173, Q15761, O43526, O43749, Q12791, P17787, Q9Y5E3, P23760, O00755, O14926, Q03052, P50148, P78424, P39086, P23415, P28222, O60404, O75311, P13942, Q13507, P47887, P21918, Q9UGM1, Q13002, O60403, Q16099, P41594, P61106, O43603, Q9Y691, P47874, O15537, P29973, O00468, O60840, P02753, Q9HC10, Q8N196, O43636, P78363, O00295, O00230, Q15825, O43613, P53673, Q12840, P32297, O43711, P37088, P56693, P34982, Q14183, P48058, P35240, Q9UBY8, Q14831, Q9GZU5, P47870, P54845, O60721, O15492, P28335, O75762, P25100, Q15878, P31644, P20941, P35368, Q9NQN1, P54257, P28566, P57727, P07320, Q9UKL4, Q9P1A6, P15382, Q16478, O00144, Q02846, Q00975, Q14573

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GOID GO:0032502

TERM developmental process

P-VALUE 2.42501345382057e-24

CORRECTED P-VALUE 6.78761265724377e-21

NUM_ANNOTATIONS 679 (of 4393)

ANNOTATED_GENES Q9Y4I4, P57679, Q01534, O95631, P01258, P20849, Q00577, Q13105, P32302, O00198, Q0VDD7, Q9HBY0, P13489, O43186, Q96J94, P01574, P98161, Q13449, P21980, Q16568, Q9Y576, Q99581, O15150, O43897, P31213, O60258, Q16620, P32238, Q99445, P25942, Q9NR12, Q12950, P12821, Q68DL5, Q13214, P50453, Q6UXY1, P20809, Q99742, Q9C019, Q02548, Q05066, P21359, P98088, O43898, P78504, P37058, P41180, O15522, Q13467, Q14203, Q9BZZ5, P01374, Q99958, P51178, P25874, P29762, O95980, Q9UL68, Q9UBT3, P50553, Q14DW8, O75326, A1A4U0, P49116, Q92988, O95390, P54762, P01135, O95861, P02452, Q92772, P32745, Q68CQ4, O95754, Q9H2A3, O94788, Q8N163, P61247, Q08174, Q68CZ1, P23942, O00526, Q01955, P25098, O60312, O75093, Q13224, Q05513, O00358, Q13972, O75445, P16615, P28356, Q9P2T0, P02489, Q9NP08, Q13753, O00238, O15519, O95076, Q92563, Q01726, P47928, Q9UQ52, P02748, Q5UIP0, P57058, Q14004, Q9H2H0, P10070, P31267, P01286, Q04721, P54259, Q9H488, Q8TC59, P35348, Q13705, P08151, O15540, Q8IYT8, P21796, P51826, O43347, Q07011, O00555, P98177, P55285, Q16254, Q9UBU2, Q12879, P55895, Q9NWH7, Q13402, O60220, P62263, P98153, P62988, P11487, P08620, Q01094, O75094, P12035, Q99626, Q13077, Q9UPW8, Q05086, Q07687, Q92786, Q5JQC9, Q14142, O94887, O43316, O14511, P78562, Q9BXM0, P01563, Q13114, O00203, O60481, P32971, P01730, Q9NRC9, Q9NYL2, Q9H2X6, P27216, Q15835, Q14641, Q9UEE5, O43324, P15291, Q9GZY0, A1L0T6, P53805, Q13285, P30988, P25054, P24855, P00797, O60542, Q9Y5L5, Q9HCT0, Q9NWF9, P10767, P10071, P50222, Q14202, O15415, P14921, Q9Y463, P28223, P19235, P10828, P17542, Q15784, P21781, P41273, Q13939, Q3SYG4, Q14565, P56179, Q03181, Q16671, O00192, O96001, Q13950, Q01538, O43435, P41586, O60733, O95470, Q9UJU5, Q12849, P04085, P84022, O14727, Q02763, Q02410, O43184, Q08289, P40425, O43439, Q13609, O43866, P49640, Q13485, P14416, O95202, P61296, P13631, Q16342, Q12791, Q9HBE4, P78362, Q9NRE2, P17787, Q15777, Q15303, Q03052, Q13461, Q68HC0, Q8NFY4, O95863, Q6NUS6, O60229, Q12824, O43365, Q08188, Q9UHL0, P18206, Q12951, P55273, O15198, O43312, Q9UGM1, P16471, P02768, Q04912, A0PJG1, P47989, Q92838, O15537, P52803, Q07955, P02753, P31249, Q9BXJ7, Q8N196, P34820, P26441, O60344, P57082, P17482, P52701, P05111, P11473, O14813, Q13635, Q13370, Q9NQ87, P61968, Q99801, O43711, P08034, P56693, Q14738, P47902, P62942, Q9HAU6, P51679, Q9H2C1, O75360, Q6T1H8, P22612, Q6NT51, P56178, Q13886, P55347, P17405, Q14576, Q9Y5M1, O00634, P24385, P15531, Q12952, P30968, P04628, P25100, O75593, P35368, P35527, O00425, P63241, Q5VVI0, P35556, Q96PF2, O43248, Q9UHQ4, Q99835, Q9UBC0, P22888, Q02962, Q99584, Q06710, Q12959, O95475, P53667, P42771, P09544, O15266, Q14469, O15353, O75427, Q16635, P02818, P07316, O14773, Q15465, Q9UHD0, P22607, P17509, P15923, P31270, P08700, P13497, Q8WZ75, O95948, Q04741, Q99453, P01588, Q12837, P15313, O75581, Q02080, O60663, P01225,

O60921, P98170, P21728, O76036, P48742, P06401, Q9UQR0, O14788, P61812, Q14003, P15151, P15311, Q59GJ8, P02649, P14651, A0PK02, P15289, O14753, Q00653, P24043, P22466, O95365, Q16552, Q9BQ70, O15146, P60953, P51843, Q96PG8, P28845, Q9UK32, P28358, O95450, Q9UK85, Q9BRP0, P56703, O15304, Q86VD1, P26436, O15178, P21246, Q15768, P54760, P19622, O95947, Q9P2R6, Q9UKW6, Q6UWB1, Q13177, O95185, O75508, O15350, P14138, Q96IZ0, Q06430, P16150, Q5T4F7, Q9HAV5, P05177, Q99963, Q14993, O60447, Q3ZCU4, Q06455, Q16518, Q02577, P11831, Q01064, Q14318, P01127, Q06587, P49638, Q15329, P52594, Q93098, Q9H5I1, P49335, Q9NP71, O95025, Q9UHF3, P36896, O00482, Q9BXL6, P07359, P56696, P18075, O60890, P27037, P62753, P40205, Q53GA4, P20908, P50052, O95238, P31273, P22003, Q12816, Q99440, P41743, O76093, P13688, P15863, Q15762, Q00597, P30048, O75366, Q03431, O14786, Q9BX74, P55211, P55107, P54252, Q13795, P17677, O60383, A1A5C6, Q13117, Q9H3D4, P60660, Q9UH65, Q14093, Q13103, P35680, Q86YV9, O95259, Q15319, Q15306, P09017, O15524, P09067, O75382, P05549, P23582, Q93097, Q8WWQ8, P10827, Q9HAB4, Q9UGP4, P36897, P16989, P41970, Q9NZW4, P21815, P06748, P30301, P28908, Q9Y236, Q14623, P10747, Q14990, P08172, P28370, P35227, P22736, P30542, P52945, Q99750, Q12870, P82279, O15085, P35663, P53708, P05067, P10588, A2NWD3, P78367, O14514, P98172, O95813, Q9Y698, Q9GZV9, P56706, Q16650, O15457, P25391, P33681, P12645, P48431, Q13087, Q14012, O75829, P49454, Q9NS25, O75340, O60248, Q02779, Q02156, Q9UBR4, O60931, P13569, O15202, Q9Y3Q4, O75602, O43526, O60609, P23759, P49815, Q86YL7, Q9Y5E3, O15156, P23760, O00755, O14926, O00590, O60462, Q05952, Q02297, O00115, P50148, Q07603, P06213, Q969Z0, P78424, O00459, Q07352, P39086, Q14190, Q13835, P35548, Q9Y261, P23945, O14543, Q13188, P13942, Q9H161, Q5FVE4, O75333, O60882, Q15628, Q9Y3Y4, Q8IXM3, Q12981, P09016, Q13474, P32856, P23769, P10276, O95231, Q13002, Q14532, P15056, P12757, Q04724, Q9H3Q1, O96004, P43146, P24347, P06340, O76050, P35221, O43603, Q13769, O60902, O00468, O95183, Q01196, Q9H9P2, P05556, Q9UL32, P08842, P01222, P00709, Q14055, Q12955, Q13653, O43555, P62714, Q9Y5H9, Q14863, A1E959, O75553, P32297, P16234, Q9HC96, Q92481, O75414, Q02643, Q14183, P49810, Q9UBY8, P35240, Q13501, P08588, P01031, P54098, Q99218, P09603, P54845, P50570, O15420, Q9H694, P28335, O95416, O60725, Q15078, Q9P212, Q9H7Z6, Q9Y6L7, Q9BXA7, O00587, O14531, P46109, Q06945, Q00005, Q5T230, Q6UY14, O75603, P26992, P04201, Q9UMR5, Q9H295, O75920, Q15116, Q02575, P07320, O15296, P15382, O00144, P22301, O43763, Q07075, P32970, O75364

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GOID GO:0019935

TERM cyclic-nucleotide-mediated signaling

P-VALUE 2.98356341994757e-23
CORRECTED P-VALUE 8.35099401243326e-20
NUM_ANNOTATIONS 56 (of 120)
ANNOTATED_GENES P32745, Q9Y5Y4, P22888, Q02643, P33032, O95838,
P47211, P21728, P50406, P08588, P21918, P30872, P34947, P34998, P50052, P02649,
P48039, P46094, P30939, Q13639, Q08116, P30988, O43603, P49146, P43220,
Q01718, P30874, Q03431, P28221, P47871, P46089, P08172, P25100, P35368,
Q86UT5, P35372, P34972, Q01726, P32245, P28566, P31391, P41146, Q13324,
P08912, P41143, O00230, P49286, P34969, P50148, P21554, P13945, P41968, P25021,
P41145, P01286, P28222

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GOID GO:0007187
TERM G-protein signaling, coupled to cyclic nucleotide second messenger
P-VALUE 1.1364883116015e-22
CORRECTED P-VALUE 3.18103078417261e-19
NUM_ANNOTATIONS 53 (of 111)
ANNOTATED_GENES P32745, Q9Y5Y4, P22888, Q02643, P33032, O95838,
P47211, P21728, P50406, P08588, P21918, P30872, P34947, P34998, P50052, P48039,
P46094, P30939, Q13639, Q08116, P30988, O43603, P49146, Q01718, P30874,
Q03431, P28221, P47871, P46089, P08172, P25100, P35368, P35372, P34972,
Q01726, P32245, P28566, P31391, P41146, Q13324, P08912, P41143, O00230,
P49286, P34969, P50148, P21554, P13945, P41968, P25021, P41145, P01286, P28222

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GOID GO:0007601
TERM visual perception
P-VALUE 8.83257382219546e-21
CORRECTED P-VALUE 2.47223741283251e-17
NUM_ANNOTATIONS 79 (of 237)
ANNOTATED_GENES Q13515, Q02962, Q9Y6N9, P09758, O95475, P35913,
P19087, Q5T4F7, Q13507, P23942, Q9Y6H8, Q15835, P12271, Q8TDN2, O43186,
P18545, Q16518, O75445, O00294, P10745, P53674, O75106, P30301, P02489,
O15537, P29973, O00222, O60840, Q13956, P02753, P22748, P26998, O43636,
P35243, P78363, O00295, P82279, P05813, P53673, P08100, Q03395, P51160,
O95834, P47804, P36575, P51841, Q9UBY8, Q3SYG4, P03999, O95237, Q92903,
P11488, Q9GZU5, P26374, P54845, O60721, O75916, O15492, Q9UI40, O14830,
Q17R60, O60938, Q13402, P43320, Q16281, Q9Y5M6, P20941, P43080, P28476,
P17787, P16499, Q9UKL4, P07320, O14926, Q02846, P78424, Q15319, P02452,
P23415

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GOID GO:0050953

TERM sensory perception of light stimulus

P-VALUE 1.18376054389842e-20

CORRECTED P-VALUE 3.31334576237169e-17

NUM_ANNOTATIONS 79 (of 238)

ANNOTATED_GENES Q13515, Q02962, Q9Y6N9, P09758, O95475, P35913, P19087, Q5T4F7, Q13507, P23942, Q9Y6H8, Q15835, P12271, Q8TDN2, O43186, P18545, Q16518, O75445, O00294, P10745, P53674, O75106, P30301, P02489, O15537, P29973, O00222, O60840, Q13956, P02753, P22748, P26998, O43636, P35243, P78363, O00295, P82279, P05813, P53673, P08100, Q03395, P51160, O95834, P47804, P36575, P51841, Q9UBY8, Q3SYG4, P03999, O95237, Q92903, P11488, Q9GZU5, P26374, P54845, O60721, O75916, O15492, Q9UI40, O14830, Q17R60, O60938, Q13402, P43320, Q16281, Q9Y5M6, P20941, P43080, P28476, P17787, P16499, Q9UKL4, P07320, O14926, Q02846, P78424, Q15319, P02452, P23415

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GOID GO:0019932

TERM second-messenger-mediated signaling

P-VALUE 3.92722077335909e-20

CORRECTED P-VALUE 1.09922909446321e-16

NUM_ANNOTATIONS 92 (of 309)

ANNOTATED_GENES P32745, Q9Y5Y4, P22888, P14138, P01258, P01730, Q00722, P25103, P21918, P30872, P46094, Q9UBF8, P52824, P53805, Q96G91, P30939, P21980, O43614, Q08116, Q9HB89, P30988, Q15077, P41594, P51582, O43603, P43220, P47871, O00329, P46089, P47901, P08172, Q8NEB9, Q86UT5, P35372, Q01726, P32238, P31391, P41146, O00230, P56373, P34969, P28223, P21554, P13945, P25021, P41145, P01286, P35219, P47900, Q02643, P33032, O95838, P47211, P21728, P50406, P08588, P34947, P50052, P34998, P28336, P02649, P48039, P20800, Q13639, P28335, P41180, Q9P212, P01374, Q9GZY6, P49146, Q01718, P30874, Q03431, P28221, Q96RI0, P14416, P17677, P25100, P35368, P34972, P32245, P04818, P28566, Q13324, P62805, P08912, P41143, P49286, P37288, P50148, P41968, P28222

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GOID GO:0048513

TERM organ development

P-VALUE 7.65420684482145e-19

CORRECTED P-VALUE 2.14241249586552e-15
NUM_ANNOTATIONS 320 (of 1832)
ANNOTATED_GENES P57679, P22888, Q02962, Q01534, Q06710, O95475, P09544, P20849, Q14469, O15353, P32302, Q9HBY0, P13489, O43186, P98161, Q16635, P21980, P02818, P07316, Q15465, Q16568, Q9Y576, P17509, P15923, P31270, P13497, Q8WZ75, O95948, P31213, P32238, Q99453, P01588, Q12837, P12821, Q02080, Q68DL5, O60663, P01225, P20809, P21728, Q9C019, Q02548, P06401, P48742, O14788, P61812, P21359, P02649, P14651, O14753, Q00653, P78504, P37058, O15522, P24043, Q9BQ70, P01374, O15146, P60953, P51843, P28845, Q99958, P51178, O95980, O95450, P28358, Q9BRP0, P50553, P56703, Q14DW8, O95390, P21246, O15178, P54760, O95947, P19622, P01135, P02452, Q9UKW6, O95185, Q9H2A3, O94788, P16150, Q9HAV5, Q68CZ1, P23942, P05177, Q01955, P25098, Q14993, O75093, Q13224, O00358, Q3ZCU4, O75445, P16615, P11831, Q14318, Q13753, O00238, Q06587, O95076, Q15329, P47928, P49335, P10070, P31267, P01286, P36896, P56696, P18075, Q04721, P27037, Q9H488, Q13705, Q53GA4, P20908, P50052, P08151, P31273, P22003, P41743, O76093, P15863, P13688, O00555, P98177, P55285, Q16254, P30048, P55895, O14786, Q03431, Q13402, P17677, P62263, P98153, P62988, P11487, P08620, O75094, P60660, Q99626, Q05086, Q07687, P35680, Q15319, Q92786, O95259, O43316, Q15306, P09017, O00203, P01730, P09067, Q9NRC9, P05549, P23582, Q15835, Q8WWQ8, P10827, P15291, A1L0T6, P36897, P16989, P41970, Q13285, P30988, P00797, O60542, P30301, Q14623, P10747, P10767, P10071, P28370, P50222, P35227, P52945, Q12870, P14921, Q9Y463, P19235, P10828, P53708, P17542, P21781, P78367, Q9Y698, Q9GZV9, P56706, Q14565, Q03181, Q16650, Q13950, O43435, O15457, P25391, P33681, P12645, P48431, Q9UJU5, O14727, Q02763, O75829, P49454, Q08289, O43184, O60248, Q9UBR4, O60931, Q13485, P14416, P13569, P61296, P13631, Q12791, Q9HBE4, P17787, Q86YL7, P49815, O15156, Q15303, P23760, O00755, Q03052, Q13461, Q02297, O00115, P50148, Q07603, P06213, Q07352, O95863, Q14190, Q08188, P35548, Q9Y261, P23945, P13942, Q9H161, Q12951, O60882, O15198, Q15628, Q9Y3Y4, P09016, P32856, Q9UGM1, P23769, P10276, Q14532, P15056, Q04724, O96004, P06340, Q13769, Q92838, O60902, O00468, O95183, P02753, P31249, Q01196, Q9H9P2, Q8N196, P05556, P34820, P08842, O60344, P57082, P17482, P11473, Q13653, P05111, O14813, Q13635, Q13370, Q14863, A1E959, Q99801, P56693, P16234, Q92481, Q02643, P47902, P62942, Q9UBY8, Q9H2C1, P09603, O75360, P22612, P54845, Q6NT51, P56178, P55347, P28335, O60725, Q15078, Q9P212, Q9H7Z6, P04628, P46109, Q06945, O75593, Q5T230, P35368, O75603, Q9UMR5, Q9H295, P35527, P07320, O43248, O15296, P22301, Q99835, O43763, Q07075, Q9UBC0, O75364

GOID GO:0019226

TERM transmission of nerve impulse

P-VALUE 3.96290410848799e-18

CORRECTED P-VALUE 1.10921685996579e-14

NUM_ANNOTATIONS 111 (of 437)

ANNOTATED_GENES Q9BXM0, O15130, O75508, P46098, O75311, O15079, Q14416, P09544, P42261, P21918, Q13002, P23975, Q16099, Q13224, Q9HAB4, Q9NPA1, P31645, P30939, Q13972, O43614, Q9HB89, P25189, O43612, P41594, O43603, O60939, P61106, Q16568, P43005, Q05329, Q03721, Q9Y691, P09172, P47874, O00468, P43007, P43681, O00222, Q13255, P30989, Q99928, O00230, P00439, P56373, Q04844, P34969, P28223, Q16558, Q15825, O43613, Q12840, P32297, P41145, Q13003, O95264, Q9Y277, Q14183, Q9UBY8, Q9Y698, P48058, P21728, P50406, Q03181, Q05901, O14804, Q14831, P21359, P47870, O60755, P02649, Q9UHC6, O00555, Q05586, O14490, Q02410, P28335, P24043, Q12879, P01374, O15146, P28221, Q86W47, P54252, P14416, P62988, Q15878, Q15761, O43526, O14994, P28476, Q12791, P54257, P28566, P17787, P08912, Q9Y5E3, Q9UKL4, O00755, Q9P1A6, Q03052, P49286, Q16566, Q16478, P50148, Q9GZZ6, O00445, Q00975, Q09470, P28222, P39086, P23415

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GOID GO:0007268

TERM synaptic transmission

P-VALUE 3.37248942440992e-17

CORRECTED P-VALUE 9.43959789892336e-14

NUM_ANNOTATIONS 99 (of 379)

ANNOTATED_GENES O15130, P46098, O75311, O15079, Q14416, P09544, P42261, P21918, Q13002, P23975, Q16099, Q13224, Q9HAB4, P31645, P30939, Q13972, O43614, P25189, O43612, P41594, O43603, O60939, P61106, P43005, Q16568, Q05329, Q03721, P09172, P47874, O00468, P43007, P43681, O00222, Q13255, P30989, Q99928, O00230, P00439, P56373, Q04844, P34969, P28223, Q16558, Q15825, O43613, Q12840, P32297, P41145, Q13003, O95264, Q9Y277, Q14183, Q9UBY8, P48058, P21728, P50406, Q05901, O14804, Q14831, P47870, O60755, P02649, O00555, Q05586, O14490, Q02410, P28335, P24043, P01374, Q12879, O15146, P28221, Q86W47, P54252, P14416, P62988, Q15878, Q15761, O43526, O14994, P28476, Q12791, P54257, P28566, P17787, Q9Y5E3, Q9UKL4, O00755, Q9P1A6, P49286, Q16566, Q16478, Q9GZZ6, O00445, Q00975, Q09470, P39086, P23415, P28222

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GOID GO:0007399

TERM nervous system development

P-VALUE 8.46404144003135e-17

CORRECTED P-VALUE 2.36908519906477e-13

NUM_ANNOTATIONS 207 (of 1079)

ANNOTATED_GENES Q9BXM0, Q02962, O95631, P53667, P09544, Q00577, O75382, Q14469, Q15835, O75427, O43186, Q9HAB4, P53805, Q13449, O14773, P36897, Q15465, O60542, Q99581, O15150, P08172, P08700, P28370, P10071, P30542, O95948, O60258, Q16620, P32238, Q99453, O15415, Q12837, P19235, P53708, P10588, Q13214, Q15784, O60663, Q99742, P98172, O14514, P21728, P56179, Q03181, Q02548, P48742, Q16650, O96001, P61812, Q01538, P21359, P48431, P02649, P14651, A0PK02, Q14012, P15289, O14727, O43898, P78504, Q02410, O15522, Q14203, P22466, O15146, O60931, P51843, P49640, Q13485, P14416, Q9UK32, O15202, P28358, Q9UL68, O43526, Q9BRP0, P50553, Q12791, O60609, P49815, P17787, Q15777, O75326, Q9Y5E3, A1A4U0, P49116, Q15303, O00755, O95390, O60462, P54762, P21246, Q03052, O15178, Q15768, P50148, Q02297, P19622, O95861, P78424, Q8NFY4, Q14190, O60229, P39086, Q9Y261, O95185, O75508, O95754, Q9H2A3, P14138, O94788, O15198, Q08174, Q68CZ1, Q13474, P23769, Q99963, O75093, Q13972, Q3ZCU4, Q16518, P43146, O76050, P35221, Q02577, O60902, O00468, P11831, P52803, P31249, O00238, P26441, Q92563, O60344, Q01726, Q12955, Q9UQ52, P47928, P05111, O14813, Q93098, P49335, Q9Y5H9, P10070, Q14863, O95025, Q9NQ87, P61968, O75553, P32297, P01286, P08034, O43711, P56693, Q92481, P18075, Q02643, Q14738, Q14183, O60890, Q04721, Q9UBY8, P35240, P54259, Q9H488, Q9H2C1, P51679, P50052, P08151, P31273, Q99440, O75360, O15540, Q8IYT8, P41743, P54845, O43347, O15420, P56178, O00555, P17405, O95416, Q14576, Q15078, Q12879, O75366, O14786, O00634, Q13402, P54252, O60220, P17677, P04628, O14531, P62988, P26992, O75094, Q9UMR5, O75920, Q02575, Q05086, Q07687, O00144, Q99835, Q15319, O94887, O43763

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GOID GO:0048518

TERM positive regulation of biological process

P-VALUE 6.21948233354475e-16

CORRECTED P-VALUE 1.74083310515918e-12

NUM_ANNOTATIONS 306 (of 1814)

ANNOTATED_GENES Q14164, Q02962, Q06710, P42771, O95631, P53667, P09544, Q00577, Q14469, O00198, Q04864, O43186, P01574, P21980, Q15465, Q16568, Q9UHD0, Q6VMQ6, P00748, P15923, P08700, O14497, O95948, P42701, O60258, Q99453, P25942, P01588, P03952, Q12837, P06681, Q68DL5, P20809, P21728, O75787, O76036, P40933, O14788, P61812, P15151, P21359, P02649,

O94776, Q05215, P20800, A0PK02, Q05586, P98088, Q08722, P43487, P78504, P24043, P22466, Q16552, P01374, P60953, Q96PG8, Q99958, P28358, Q9BRP0, P50553, P49356, O15304, A1A4U0, P21246, O76054, O15178, P15514, P01135, P17181, P49918, P32745, Q6UWB1, O15350, Q9H2A3, Q96IZ0, P14138, Q6UUV9, O94788, P16150, P61247, P55073, Q9HAV5, Q01955, P25098, Q13224, O00358, P00751, Q3ZCU4, Q96GM5, P11831, Q9Y294, Q13956, P01127, O00238, O15519, P47928, O00233, P02748, P56373, Q14004, P10070, Q9NP71, P13945, P01286, P36896, Q9BXL6, P18075, Q04721, O95838, P62753, P27037, Q9UMN6, P05113, Q13705, P50052, P08151, O76093, P17927, P15863, Q15762, Q07011, Q07889, P20823, Q9GZY6, P30048, P53041, P55895, O14786, Q03431, P55211, O75928, P62988, P08620, Q9H3D4, P32245, Q07687, P35680, O75144, P23497, Q15306, P01563, Q13114, O00203, P32971, P01730, Q9NYL2, Q9BZS1, P51668, Q9H2X6, Q15835, Q9UEE5, P10827, Q8WYB5, P15248, O43324, P15291, P48740, P18545, P36897, P16989, O95648, Q13285, P25054, P28908, Q14623, P10747, Q9UK05, Q9H160, P28370, P10071, P22736, P52945, P30542, Q07912, O43734, O15085, P14921, Q9Y463, P28223, P10828, P53708, Q13191, A2NWD3, P21781, Q15654, P98172, P56706, Q03181, Q16650, Q13950, P25391, P33681, O95477, P48431, Q9UJU5, P51610, P84022, P04085, O14727, P40425, O75340, Q02779, Q02156, O60248, P14416, Q13485, P49640, Q9Y2Y8, P11226, P61296, P13631, Q12791, Q9HBE4, P05362, P17787, Q86YL7, O00755, Q13461, P19419, Q02297, P06213, Q969Z0, O15516, P41235, P18428, Q9Y5Y4, Q9Y261, O14543, Q13188, Q9H161, Q12951, Q15628, Q12981, P23769, P10276, P42830, Q13002, O95684, Q04912, O95759, Q9H3Q1, O96004, P43146, P35221, Q92838, O00468, P02753, O00187, P31249, Q01196, P05556, Q9UL32, P00709, P26441, Q9UIH9, Q09161, P35070, P52701, P05111, P28069, P56693, P16234, Q9HC96, Q92481, Q02643, P62942, P35240, Q13501, P08588, Q9H2C1, P01031, O95136, P09603, O75360, P03951, P54845, Q6NT51, P50570, P56178, P55347, P28335, O60725, Q15078, Q9H7Z6, P24385, P15531, P04628, Q06945, O75593, P25100, Q5T230, Q6UY14, P35368, P26992, Q9UMR5, P48023, Q5VVI0, P63241, O60244, O15296, P22301, O43318, Q99835, Q9UBC0, P32970

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GOID GO:0048522

TERM positive regulation of cellular process

P-VALUE 1.05499528765728e-15

CORRECTED P-VALUE 2.95293181015272e-12

NUM_ANNOTATIONS 281 (of 1636)

ANNOTATED_GENES Q14164, Q02962, Q06710, P42771, O95631, P53667, P09544, Q00577, Q14469, O00198, Q04864, O43186, P01574, P21980, Q15465, Q16568, Q9UHD0, Q6VMQ6, P15923, P08700, O14497, O95948, P42701, O60258,

Q99453, P25942, P01588, Q12837, P20809, P21728, O76036, P40933, O14788, P61812, P15151, P21359, P02649, O94776, Q05215, P20800, A0PK02, Q05586, P98088, Q08722, P43487, P78504, P24043, P22466, Q16552, P01374, P60953, Q96PG8, Q99958, P28358, Q9BRP0, P50553, P49356, O15304, A1A4U0, P21246, O76054, O15178, P15514, P01135, P49918, P32745, O15350, Q9H2A3, Q96IZ0, Q6UUV9, P14138, O94788, P16150, P61247, Q9HAV5, Q01955, Q13224, O00358, Q3ZCU4, Q96GM5, P11831, Q9Y294, Q13956, P01127, O00238, O15519, P47928, P02748, O00233, P56373, Q14004, P10070, Q9NP71, P13945, P01286, P36896, Q9BXL6, P18075, Q04721, O95838, P62753, P27037, Q9UMN6, P05113, Q13705, P50052, P08151, O76093, P15863, Q15762, Q07011, Q07889, P20823, P30048, P53041, O14786, Q03431, P55211, O75928, P62988, P08620, Q9H3D4, Q07687, P35680, O75144, P23497, Q15306, P01563, Q13114, O00203, P32971, P01730, Q9NYL2, Q9BZS1, P51668, Q9H2X6, Q15835, Q9UEE5, P10827, Q8WYB5, P15248, O43324, P15291, P18545, P36897, O95648, Q13285, P25054, P28908, Q14623, P10747, Q9UK05, Q9H160, P28370, P22736, P52945, P30542, Q07912, O43734, O15085, P14921, P28223, Q9Y463, P10828, P53708, A2NWD3, P21781, Q15654, P98172, P56706, Q03181, Q16650, Q13950, P25391, P33681, O95477, P48431, Q9UJU5, P51610, P84022, P04085, O14727, P40425, O75340, Q02779, Q02156, O60248, P14416, Q13485, P49640, Q9Y2Y8, P13631, P61296, Q12791, Q9HBE4, P05362, P17787, Q86YL7, O00755, Q13461, P19419, Q02297, P06213, Q969Z0, O15516, P41235, P18428, Q9Y5Y4, Q9Y261, O14543, Q13188, Q9H161, Q12951, Q15628, Q12981, P23769, P10276, P42830, Q13002, O95684, Q04912, O95759, Q9H3Q1, O96004, P43146, P35221, O00468, P31249, Q01196, P02753, P05556, Q9UL32, P26441, P00709, Q9UIH9, Q09161, P35070, P52701, P05111, P28069, P56693, P16234, Q9HC96, Q92481, Q02643, P62942, P35240, Q13501, Q9H2C1, O95136, P09603, O75360, P54845, Q6NT51, P50570, P56178, P55347, P28335, O60725, Q15078, Q9H7Z6, P24385, P15531, P04628, Q06945, O75593, P25100, Q5T230, Q6UY14, P35368, P26992, Q9UMR5, P48023, Q5VVI0, P63241, O60244, O15296, O43318, Q99835, Q9UBC0, P32970

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GOID GO:0007166

TERM cell surface receptor linked signal transduction

P-VALUE 2.9647558871515e-15

CORRECTED P-VALUE 8.29835172813705e-12

NUM_ANNOTATIONS 423 (of 2731)

ANNOTATED_GENES P50391, P22888, O15130, P01258, Q14416, P29376, P09544, Q00722, P32302, Q9NYW3, P30872, O75578, O95918, P01574, P46094, P98161, P52824, Q96G91, P21980, O43614, Q07666, Q15465, P51582, Q16568, O00451, P22607, Q01082, Q86UT5, O95948, Q9H255, P42701, O60258, P49802,

Q16620, P32238, P48169, P30989, O94810, P29371, O75581, P08173, P08100, P47804, P01225, Q9NYV7, P46093, P21728, P03999, P33765, O14804, O43541, O14924, P23468, Q9NS67, P34998, P11488, P28336, P61812, Q59GJ8, O60755, P02649, Q9Y3N9, P49758, P20800, O75388, Q9HCQ7, Q05586, Q08722, O43898, P78504, O75916, Q8NC01, P41180, Q13467, P60893, P34995, P22466, O15146, Q99958, O95297, P47881, Q9HCN6, O60726, Q9UBT3, P50553, P28476, Q9NYW1, P56703, O43789, P08912, P47890, P54762, P49286, P21246, P15514, Q15768, P54760, P01135, P17181, P49918, P32745, P58182, Q6UWB1, P14138, Q9UKL2, P19087, P16150, Q5T4F7, Q68CZ1, P42263, Q01955, P25098, Q01362, Q13224, Q3ZCU4, Q13607, Q9HB89, O43612, Q9NYV9, P29320, O76099, O00329, P46089, Q14968, P18031, P08922, Q14318, P51685, O00325, Q13956, P01127, O00238, Q86T24, P09471, P16520, Q15618, O43192, Q13255, Q01726, P49685, Q9UQ52, Q99928, O75889, Q93098, Q9H2H0, P10070, P21554, Q06481, P13945, P41145, Q96R84, P01286, P36896, P07359, P47900, P51841, P18075, O75810, Q04721, Q9P1P5, O95838, P27037, O43813, Q7Z4W6, Q9H488, P11215, P35348, Q13705, P34947, P47872, P50052, P08151, P41587, Q9NYW0, P48039, O76093, P13688, Q15762, O00555, Q07889, P98177, Q9NYW6, Q9UBU2, P40238, Q9GZY6, Q12879, O95672, O14786, Q03431, P28221, P55107, Q96RI0, O60883, P17677, O60383, Q99061, O43559, O60242, Q9H3D4, P23416, O60262, O14939, P32245, Q6NV75, Q13606, P37288, O95222, P26012, P23497, P30550, P01563, P09758, O15524, P01730, Q8N6U8, Q9NYV8, Q9H2X6, Q12913, Q9BZC5, P47898, Q93097, Q15835, P49796, P12872, O75023, P18545, P63211, Q9ULV8, P46091, P30939, Q9Y585, P36897, P25054, P30988, Q15077, Q8WU20, P43220, P21731, Q9GZP7, O95405, O75962, P10747, P47901, Q99988, P08172, Q9UK05, Q5UAW9, O00222, Q8WXXV1, P10071, Q6NTB5, O95157, P35372, P30542, Q9UGF7, Q99750, P41146, O15085, O43193, P34969, P28223, P08514, P53708, P05067, Q15613, Q13258, Q13191, A2NWD3, P54756, Q13003, O95264, O14843, P34981, O14514, O95813, P56706, P50406, Q16671, O76002, O15530, Q13950, O00155, P25391, O95477, P41586, O95800, O43194, O00253, P04085, P84022, Q13639, Q02763, O75829, P21452, P49146, O14581, P47775, Q13485, P14416, Q15375, P58173, Q15761, P13631, O43749, P49682, P49815, Q13324, Q15303, P10082, P34903, O00755, A1L156, Q14CE0, O00590, Q02297, P50148, P05106, P06213, P25092, P39086, P23415, P28222, Q9Y5Y4, P35548, P18428, O60404, P23945, O14543, Q9Y3Y4, O15198, P25103, Q14451, P47887, P21918, O43312, Q9NTG1, P16471, Q13002, Q04724, O60403, Q16099, Q08116, P41594, P35221, O43603, P14616, P12931, P47871, O00468, P05556, Q5IFH6, P01222, P50150, P26441, O14836, O95996, Q9H0K1, P05111, Q9NZD1, P31391, O00230, Q13635, A4QMS5, O43613, O43424, P25021, Q9NQ87, P32297, P16234, P34982, Q02643, P49810, P33032, P48058, P47211, Q9NS66, P08588, Q9H0E9, P51679, P01031, O95136, O95158, Q14831, P17098, P47870, O75360, P46092, O15492, P28335, Q9P212, Q15078, P48546, Q01718,

P30874, P08949, P04628, P30968, Q06945, O75593, P25100, P31644, P20941, P35368, P26992, P32298, Q99677, P04201, Q9NQN1, O00574, P34972, O00254, P28566, P41143, O75078, Q16478, P32247, O00144, Q13797, Q02846, O43318, P41968, Q99835, Q9UBC0

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GOID GO:0009887

TERM organ morphogenesis

P-VALUE 1.52348083888821e-14

CORRECTED P-VALUE 4.2642228680481e-11

NUM_ANNOTATIONS 143 (of 693)

ANNOTATED_GENES Q02962, P09017, O95475, P20849, P09067, Q14469, Q9NRC9, O15353, Q15835, Q8WWQ8, P10827, P13489, O43186, P15291, P98161, A1L0T6, P21980, P02818, P36897, P41970, Q15465, Q14623, P17509, P31270, P10767, P13497, P10071, P50222, P35227, P52945, Q8WZ75, O95948, Q12870, P53708, Q68DL5, P78367, P56706, Q02548, P48742, P61812, Q13950, O43435, P21359, P48431, P02649, Q9UJU5, P14651, Q02763, P78504, O75829, Q9UBR4, P51178, P28358, Q9BRP0, P61296, P13631, Q14DW8, O00755, P23760, O95390, O15178, P54760, P01135, Q07603, P06213, Q07352, P02452, P35548, O94788, Q9H161, Q12951, O60882, Q68CZ1, P09016, P32856, Q9UGM1, P23769, Q01955, P15056, Q04724, O00358, Q3ZCU4, O96004, Q92838, P11831, P31249, O00238, Q01196, P02753, Q06587, O95076, Q15329, P57082, P11473, Q13653, Q13635, P10070, P31267, A1E959, P56693, P16234, P56696, P18075, P47902, Q04721, P62942, Q9H488, Q53GA4, P50052, P20908, P08151, P31273, O75360, P41743, P54845, O76093, P13688, Q6NT51, P56178, P98177, P55347, P28335, Q16254, O60725, O14786, Q13402, P04628, P98153, P46109, P08620, P11487, P35368, O75094, Q99626, O43248, Q07687, Q92786, Q15319, Q99835, Q07075, Q9UBC0, O43316, O75364

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GOID GO:0050890

TERM cognition

P-VALUE 2.429586544814e-14

CORRECTED P-VALUE 6.8004127389344e-11

NUM_ANNOTATIONS 181 (of 955)

ANNOTATED_GENES O60266, Q13515, Q02962, Q9Y6N9, P09758, O95475, Q9NRC9, O14829, Q9NYV8, Q9NYW3, Q15835, P12271, O95918, Q8TDN2, O43186, P18545, Q8NFU1, Q9Y585, Q9NZW4, O00294, P10745, P43220, P53674, P30301, P22607, P43007, P43681, O00222, P51172, P35372, P26998, O15399, Q9UGF7, Q9H255, P41146, P82279, Q12837, P05813, P28223, P10828, P15313,

P53708, Q15613, P08100, Q03395, P10588, Q15784, P51160, P47804, P36575, P17900, Q9NYV7, Q3SYG4, P21728, P03999, O95237, O76002, Q92903, Q9Y5Y9, P11488, P21359, O60755, P48431, P26374, Q9Y3N9, Q05586, Q08828, O75916, O75083, Q9UI40, Q17R60, O14581, O60931, O60938, P14416, P51170, P43320, Q16281, P58173, P47881, Q9Y5M6, O43749, P28476, P43080, Q9NYW1, Q12791, P17787, O43789, P16499, P23760, P47890, P21246, O14926, P78424, P02452, P23415, P58182, O60404, P14138, P13942, P35913, Q9UKL2, P42261, P19087, Q13507, Q5T4F7, P47887, P23942, Q9Y6H8, Q9UGM1, Q01955, O60403, Q13224, Q13972, Q16518, Q13607, O75445, P41594, O43603, Q9NYV9, O76099, P31025, O75106, P47874, P29973, O15537, P02489, Q01064, Q13956, O60840, O95500, Q9HC10, P02753, Q8N196, P22748, O43636, Q15618, P35243, P78363, O00295, P56373, P49335, P53673, P41145, Q96R84, P37088, P56693, P34982, O95834, P51841, P56696, Q9Y277, Q9UBY8, P35240, Q14831, Q9GZU5, Q9NYW0, P54845, O60721, O15492, P28335, Q9NYW6, O75762, O14830, Q12879, Q13402, O60220, P31644, P20941, P35368, Q9NQN1, Q13606, P57727, Q9UKL4, P07320, P15382, O00144, Q02846, Q15319, O95222, Q14573

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GOID GO:0030154

TERM cell differentiation

P-VALUE 1.27239663409528e-13

CORRECTED P-VALUE 3.5614381788327e-10

NUM_ANNOTATIONS 288 (of 1753)

ANNOTATED_GENES Q99584, Q02962, Q01534, Q06710, O95631, P53667, P09544, Q14469, O15353, O43186, Q96J94, P02818, Q15465, Q16568, Q99581, P15923, P31270, P13497, O43897, Q8WZ75, O95948, P31213, Q16620, P32238, Q99453, P01588, Q12837, Q9NR12, P12821, Q13214, O60663, P20809, P21728, Q9C019, Q02548, P06401, P48742, O14788, Q05066, P61812, P21359, Q59GJ8, P02649, A0PK02, Q00653, P78504, O15522, Q13467, O95365, O15146, P60953, P51843, P25874, P28358, Q9UL68, Q9BRP0, P50553, P56703, Q14DW8, O75326, Q86VD1, A1A4U0, O95390, O15178, Q15768, O95947, P19622, O95185, O95754, Q9H2A3, P14138, O94788, P16150, Q5T4F7, Q9HAV5, O00526, Q14993, O75093, Q13972, Q3ZCU4, Q06455, Q16518, O75445, Q02577, Q9P2T0, P11831, Q14318, O00238, Q92563, Q01726, P47928, Q5UIP0, P52594, Q9H5I1, P49335, P10070, O95025, P36896, P18075, O60890, Q04721, P27037, Q8TC59, Q13705, P08151, P31273, P22003, Q8IYT8, P41743, O76093, P15863, O00555, Q00597, P98177, Q16254, P30048, Q12879, P55895, O14786, Q03431, Q9NWH7, Q13402, P17677, O60383, P62263, P62988, P11487, P08620, Q13117, O75094, P12035, Q99626, Q14093, Q07687, Q86YV9, Q15319, Q92786, O95259, O94887, O43316, Q15306, O15524, O00203, P09067, P01730, Q9NYL2, P27216, Q15835, P15291, P53805,

P36897, Q13285, P25054, P30988, Q9Y236, Q14623, P10747, Q14990, Q9HCT0, P10767, P10071, P28370, P52945, Q99750, P35663, P14921, Q9Y463, P10828, P53708, P17542, P10588, Q15784, Q13939, O14514, P98172, Q9Y698, Q9GZV9, Q3SYG4, P56706, Q03181, Q16650, Q01538, Q13950, P25391, P41586, P33681, P12645, P48431, Q9UJU5, Q14012, O75829, Q08289, O43184, Q9NS25, O43439, O60248, P14416, Q13485, P49640, O75602, P61296, Q12791, Q9HBE4, O60609, P78362, P17787, Q15303, O15156, O00755, Q03052, O60462, Q05952, Q13461, Q02297, O00115, P50148, P78424, Q07352, Q8NFY4, Q12824, Q14190, Q08188, Q9UHL0, Q9Y261, O14543, Q5FVE4, P32856, P23769, P10276, O96004, P43146, P06340, P47989, P35221, Q13769, Q92838, O00468, P52803, O95183, P31249, Q01196, P05556, Q8N196, P34820, P26441, O60344, Q12955, P05111, O14813, O75553, P32297, O43711, P56693, Q02643, Q9UBY8, P35240, Q13501, P08588, Q9H2C1, P51679, P09603, O75360, P54845, Q6NT51, P56178, P55347, Q15078, Q14576, Q9H7Z6, Q9Y6L7, Q9BXA7, O00634, P24385, P04628, Q06945, O75603, Q9H295, Q5VVI0, Q02575, O43248, Q96PF2, O15296, P15382, O00144, P22301, Q99835, O43763, Q9UBC0

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GOID GO:0009653

TERM anatomical structure morphogenesis

P-VALUE 2.05362780680916e-13

CORRECTED P-VALUE 5.74810423125883e-10

NUM_ANNOTATIONS 248 (of 1461)

ANNOTATED_GENES Q02962, P09017, Q06710, Q12959, O95475, O95631, P53667, P20849, P09067, Q14469, Q9NRC9, O15353, Q15835, Q93097, Q8WWQ8, P10827, P13489, O43186, P15291, P98161, A1L0T6, P21980, P02818, P36897, P41970, P25054, Q15465, O60542, Q14623, P17509, P31270, P10767, P13497, P50222, P10071, P35227, P52945, Q8WZ75, O95948, Q12870, P32238, P82279, O15085, Q12837, Q9Y463, P53708, Q68DL5, Q13214, A2NWD3, Q6UXY1, P78367, P98172, O14514, O95813, P56706, Q9C019, Q16671, Q02548, P06401, P48742, Q16650, Q9UQR0, P61812, Q13950, O43435, P21359, P25391, P15311, Q59GJ8, P48431, P02649, Q9UJU5, P14651, Q12849, A0PK02, O14727, Q02763, P78504, O75829, O43184, P41180, O15522, Q13467, P40425, O60248, O43439, P60953, Q9UBR4, Q99958, P51178, Q13485, P14416, P28358, Q9UK85, O75602, Q9BRP0, P61296, P13631, O60609, P56703, P23759, P49815, Q86YL7, P17787, Q14DW8, A1A4U0, O00755, P23760, O95390, O60462, O14926, O15178, Q15768, P54760, P50148, O95947, P01135, Q07603, P06213, Q07352, P02452, O95863, P35548, Q08188, Q9Y261, O95185, O95754, Q9H2A3, P18206, O94788, Q9H161, O75333, Q12951, O60882, P16150, Q5T4F7, Q68CZ1, P09016, O43312, P32856, O00526, Q9UGM1, P23769, Q01955, P15056, O60312, Q04724, O75093, A0PJG1, O00358,

Q9H3Q1, Q13972, Q3ZCU4, O96004, P43146, P47989, P35221, Q92838, P11831, P02753, P01127, Q01196, O00238, P31249, Q06587, O95076, P01222, Q15329, P57082, Q12955, P11473, Q13653, Q13635, P10070, Q9NP71, P31267, A1E959, P61968, Q9UHF3, P32297, Q99801, O00482, P07359, P16234, P56693, P56696, P18075, P47902, O60890, Q04721, P62942, P27037, Q9H488, Q9H2C1, Q53GA4, P20908, P50052, P08151, P31273, O75360, Q8IYT8, P41743, O76093, P54845, Q6NT51, P13688, P56178, O00555, P98177, P55347, P28335, Q16254, O60725, Q15078, O14786, O00634, Q13402, Q13795, P17677, P04628, O60383, P46109, P98153, P62988, P11487, P08620, P35368, O75094, P04201, P12035, Q99626, O00425, Q5VVI0, P35556, O43248, O15296, Q07687, P15382, Q99835, Q15319, Q05JQC9, Q92786, O95259, Q9UBC0, Q07075, O43763, O43316, O75364

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GOID GO:0007154

TERM cell communication

P-VALUE 4.85268761056818e-13

CORRECTED P-VALUE 1.35826726219803e-09

NUM_ANNOTATIONS 833 (of 6205)

ANNOTATED_GENES O95944, Q9Y4I4, P50391, O15130, P01258, Q9NP86, O60906, P32302, Q9NYW3, P30872, O95755, Q13283, O75578, P01574, P23975, Q8NG66, P98161, Q9NPA1, P52824, P21980, Q07666, P18509, Q9Y6J3, Q16568, O00451, Q9Y576, O14654, P43007, P09681, Q8WUA7, Q01082, Q9NYZ4, Q15759, Q8NEB9, O14497, Q86UT5, O15399, P31213, Q9H255, O60258, P49802, P22105, Q16620, P32238, P48169, Q99445, P25942, P30989, P42684, Q04844, Q15382, P29371, P08173, O14544, Q68DL5, Q13214, P50453, Q6UXY1, P20809, Q99742, Q9NYV7, O75448, P46093, O75787, P11488, P21359, O60755, O43898, P78504, O75916, P41180, Q13467, P34995, P01374, Q86W47, Q99958, O95297, P51178, P29762, Q3KR16, A4FU63, P47881, Q9HCN6, O60726, O75469, Q9UBT3, P50553, P28476, P43080, O43789, Q14DW8, P54762, P49286, P15514, P01135, P17181, Q92772, P49918, P32745, P49703, O95754, P10826, O94788, P35913, Q9UKL2, P42261, P19087, Q08174, Q68CZ1, O00409, Q9Y6H8, Q01955, P25098, Q13224, Q05513, P31645, Q13972, P25189, O43612, Q9NYV9, P29320, O00329, P46089, Q14968, P08922, P18031, P51685, O00325, Q13956, O00238, Q86T24, O15519, Q15618, Q13255, Q01726, P49685, Q9UQ52, O00233, O95081, P02748, P51149, Q99928, P00439, P56373, P57058, Q9H2H0, P10070, Q06481, Q4KMP7, P41145, P01286, Q6ZT07, P47900, Q13163, Q04721, Q9P1P5, O95838, O43813, Q08AM6, Q9H488, P11215, P35348, Q13705, Q13477, P47872, P08151, P41587, Q9NYW0, Q8IYT8, P21796, P48039, O00555, P23508, P98177, Q9UBU2, P40238, Q12879, Q14512, P53041, O95672, P28221, Q96RI0, O60883, O15547, O75928, P62988, P11487, P08620, O60242, O14994, O60262, P32245, Q05BE4, Q6NV75, Q13077,

Q9UPW8, Q16566, P37288, Q8NCG5, O75144, Q9GZZ6, Q5JQC9, O94887, O14511, A0JLP1, O96013, P78562, Q9BXM0, P23497, P01563, P09758, O43699, Q13114, P32971, P01730, Q9NYL2, Q9NYV8, Q9H2X6, Q12913, P47898, Q15835, Q14641, Q9UEE5, O43324, P49796, P12872, P53805, Q13285, P30988, P25054, O60939, P00797, Q8WU20, P43005, P21731, O95405, O15055, O00522, Q99988, Q9P2N2, P10767, P10071, Q6NTB5, P35372, P41146, P52564, O43193, O15376, P34969, P28223, P19235, P08514, Q15771, Q14432, O75116, Q15613, Q13258, Q13191, P54756, P21781, P41273, O95264, Q9NR48, Q01113, Q03181, Q9H252, P12314, O76002, Q16671, O15264, Q9P0X4, Q92903, O96001, Q13950, Q17R43, O00155, P41586, Q15172, Q9UHC6, O00253, P04085, P84022, O14727, O43283, Q02763, Q02410, O15013, P49146, O14581, Q13609, Q9UQ05, A1E5M1, P47775, Q13485, P14416, O95202, Q15761, P13631, Q12791, Q9HBE4, P78362, P17787, Q13324, Q15303, P10082, O75901, P34903, Q03052, O60229, P18428, O75325, O15198, P25103, Q14451, P47887, O43312, P16471, P02768, P42127, Q9UBF8, Q04912, O95759, P01567, P41594, P61106, P19174, Q9Y691, P12931, Q92838, P47874, P47871, P52803, P02753, Q5IFH6, P26441, Q13237, O60344, Q9H0K1, P52701, Q9NPB3, P05111, P11473, Q13635, Q15825, Q13370, O43613, O43424, Q9NQ87, Q12840, P20340, O95389, P08034, Q14738, O43295, Q17R89, P62942, P47211, Q9NS66, Q15208, P51679, Q9H2C1, O95158, Q14831, Q9H3V2, O75360, P46092, O14684, Q1ZYL3, Q13886, O15492, P17405, P30874, P08949, P24385, P02760, P30968, P04628, P25100, O75593, P35368, P32298, Q99677, O00574, Q9Y264, O00254, O75078, O43248, O60244, Q16478, P41968, Q99835, Q9UBC0, Q00975, Q5T442, Q15750, Q15555, O60266, Q14164, P22888, O43182, P53667, P09544, P29376, Q14416, Q00722, Q5TCZ1, Q04864, O43687, O95918, P46094, Q96G91, O43614, Q15404, Q15465, P51582, Q05329, P01350, P09172, Q9UHD0, P22607, P80098, P43681, P31270, P08700, O95948, P42701, Q14123, P01588, O94810, Q14236, O75581, Q9Y2I9, P08100, P51160, P47804, P36575, P01225, O60921, P21728, P03999, P33765, O14804, O14924, O76036, O43541, P40933, P23468, P06401, Q9NS67, P34998, O00561, P28336, P61812, Q59GJ8, P02649, Q9Y3N9, P49758, P20800, P35225, O75388, Q9HCQ7, Q05586, Q08722, P43487, Q00653, Q8NC01, P60893, P24043, P22466, Q16552, O15146, P57773, P60953, Q9BU20, P51843, Q96PG8, Q9UK32, Q16281, P57789, Q9NYW1, Q8IXF0, P56703, P16499, P08912, P47890, O15178, P21246, Q15768, P27815, P54760, Q09470, P58182, Q6UWB1, Q13177, O95185, O75508, O15350, P14138, Q15907, Q9NSN8, P14619, P16150, Q5T4F7, Q9HAV5, Q6ZW31, P42263, Q99963, O43147, Q01362, O60447, O94989, Q9Y2Y0, Q9UBG7, Q3ZCU4, Q13607, Q9HB89, Q07890, P49137, P80192, O76099, Q02833, O43251, Q01064, Q14318, P01127, P09471, P16520, O43192, P51671, P35243, Q9NXL2, P52594, O75889, Q93098, Q16558, Q12852, P21554, P13945, O14990, O15259, Q96R84, P36896, Q9BXL6, P10114, P07359, P51841, Q9Y277, P18075, O75810, O60890, P27037, P36406, P62753, Q14571,

Q7Z4W6, P34947, P50052, P41743, Q99490, O76093, Q13554, Q12802, P13688, Q15762, Q07889, Q9NYW6, Q9GZY6, Q03431, O75628, O14786, P55211, P55107, Q15120, P54252, Q13795, P17677, O60383, O43741, Q99061, P55196, O43559, Q9H3D4, O00178, P23416, O14939, Q13572, Q13393, P04818, Q13606, O75783, O00445, O95259, O95222, Q9HCR9, Q01344, P26012, P30550, P46098, Q14155, O15524, O15079, O75952, Q8N6U8, Q8WXH6, Q9BZC5, Q93097, Q9Y2B4, O75023, P18545, Q9HAB4, Q9UGP4, P63211, Q9ULV8, P46091, P30939, Q9Y585, P36897, P41970, O43921, Q15077, O75161, Q03721, P43220, P06748, Q9GZP7, P28908, Q13671, O75962, Q14623, P47901, P10747, P08172, Q9UK05, Q5UAW9, O00222, Q08462, Q9H160, Q13596, Q8WXV1, A0JNU9, P22736, O95157, Q9Y2X0, P30542, P52945, Q9UGF7, Q99750, Q07912, O75761, O43734, P82279, O15085, P53708, P78314, P05067, P10588, A2NWD3, Q13003, O14843, Q15654, P34981, O14514, P98172, O95813, Q9Y698, P56706, P50406, O75896, Q05901, O15530, P47992, P25391, O95477, P33681, P12645, O95800, O43194, Q13087, Q14012, O14490, Q13639, O75829, O60519, P21452, Q02779, Q02156, O14733, O95835, Q15375, P58173, O60503, O43526, Q6GQQ9, Q14168, O43749, P49682, P35858, O60609, P49815, Q86YL7, P62805, Q9Y5E3, O00755, A1L156, O00590, Q14CE0, O15484, P10911, Q02297, P50148, P05106, P06213, O00459, P25092, O15397, P52757, O15516, P39086, P23415, Q14190, P28222, Q13835, Q9Y5Y4, P35548, O60404, P23945, O14543, O75311, Q13188, Q9Y3Y4, Q15628, P28472, P21918, P04808, P32856, P10276, Q9NTG1, Q9NPH9, P56559, Q13002, P42830, Q13588, P12757, Q04724, O60403, Q16099, Q8NI35, P36405, Q08830, Q9H3Q1, P51451, Q08116, Q15822, O00175, P35221, O43603, O75343, P14616, O00468, P05556, P01222, P50150, P00709, P61225, O14836, O95996, Q12955, O43555, Q9Nzd1, P31391, O00230, A4QMS5, Q15139, P25021, Q13459, P32297, P35219, Q9Y478, P16234, Q9HC96, P34982, Q02643, Q14183, P49810, P33032, Q9UBY8, P48058, P35240, Q13501, P08588, Q9H0E9, P01031, O95136, Q9BRG2, Q5JPD2, P17098, P47870, P50570, P28335, O60725, Q9P212, Q15078, P48546, Q9H596, Q01718, Q06945, P46109, P31644, Q00005, Q15878, P20941, P26992, P04201, Q9UMR5, Q9NQN1, P34972, P48023, P54257, P28566, P41143, Q9UKL4, Q15057, Q9P1A6, P32247, P22301, Q13797, O00144, Q02846, O43318, O15467, Q07075, P32970, Q14573

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GOID GO:0006366

TERM transcription from RNA polymerase II promoter

P-VALUE 6.51681507046044e-13

CORRECTED P-VALUE 1.82405653822188e-09

NUM_ANNOTATIONS 170 (of 912)

ANNOTATED_GENES P51786, P23497, Q9Y2Y4, Q02962, Q06710, O75971, O15266, Q14469, P05549, O15353, Q7KZ85, O60583, P10827, O43186, P16989, Q13285, Q9Y2D1, Q15465, Q13863, Q99581, P04198, Q14623, Q6VMQ6, P22736, P35227, Q15697, Q9Y2X0, P52945, O95948, Q99750, Q12870, O14647, P61244, P52747, O43829, P01588, Q12837, P14921, O75486, Q13487, Q15784, Q9NR48, Q99742, P20809, P78367, P35711, O75448, Q03181, Q02548, Q16650, O75446, Q13950, O43435, Q12873, P48431, O94776, Q9UJU5, Q02446, P51610, Q05586, P84022, O14753, Q9Y651, O15522, O95365, P40425, Q9BQ70, Q16552, O60248, P50549, P51843, O75478, O75528, P49640, Q13485, Q9NR55, P28358, P61296, P13631, P50553, Q16656, P23760, O15178, Q13461, O15370, P19419, P78424, Q9UKW6, O15516, Q14190, Q12824, P41235, Q9Y261, Q9H2A3, Q6UUUV9, Q96IZ0, Q9H161, O75333, P41223, P23769, P12757, Q15466, Q10587, O75909, P51531, O00358, Q3ZCU4, O96004, Q96GM5, Q9H944, O00472, O00468, P11831, O75031, Q01196, O95125, Q96KN3, Q03111, P47928, P28069, Q6P4R8, P10070, Q9NP71, P61968, O43812, O00482, P56693, Q92481, P18075, O00488, P54259, Q9Y6J9, Q13501, Q9H0E9, P09086, P08151, P31273, P17098, O75360, Q13862, P54845, P15863, Q6NT51, Q13886, A2RRE3, P98177, P55347, Q01658, Q16254, P20823, Q15406, Q14582, P62263, O75593, Q5T230, Q01094, Q14541, P52655, Q99626, Q5VVI0, O60244, O95163, Q07687, Q14241, P55199, Q00987, Q15319, Q9UBC0, Q15643, P51532

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GOID GO:0008283

TERM cell proliferation

P-VALUE 1.21410274484466e-12

CORRECTED P-VALUE 3.3982735828202e-09

NUM_ANNOTATIONS 198 (of 1118)

ANNOTATED_GENES Q15555, Q01344, P30550, P09758, Q01534, Q12959, P42771, O95631, P32971, P09544, Q00577, Q14469, Q9NYL2, O15353, Q9BZS1, P56545, Q9NPF7, P30872, Q14641, O43324, P15248, P01574, P15291, P21980, P36897, Q07666, P25054, Q15465, P06748, P28908, Q14623, O15150, P10747, P30307, P10767, P08700, P10071, P35372, P52945, P42701, O60258, Q99445, P25942, P01588, P14921, P28223, P08173, P12821, P17542, A2NWD3, P21781, P41273, P01225, Q01113, P20809, P98172, O14514, O95813, O75896, Q03181, P40933, P06401, P11488, P61812, Q13950, P21359, P25391, P02649, Q05215, P20800, P04085, P98088, Q08722, Q02763, P78504, P49454, O15522, P22466, P06127, P01374, Q13485, P14416, P30260, Q9BRP0, P13631, P50553, Q9HBE4, P49815, Q86YL7, P49356, P17787, P08912, Q15303, P10082, O95390, P21246, O15178, P15514, Q13461, P54760, P01135, O95995, Q969Z0, Q9UKW6, Q12824, P49918, P32745, P41235, P35548, Q96IZ0, P14138, O94788, P55273, P16150,

Q01955, P42830, Q01362, O95684, O60447, Q04912, P51531, O95759, Q13972, Q14201, P35221, O43251, P02753, P01127, Q8N196, P05556, Q06250, O14683, P35070, P47928, P05111, P31391, P28069, Q13635, Q14004, Q15139, P10070, P01286, Q99801, P16234, Q02643, P18075, Q04721, O95838, P27037, P35240, O43598, Q9H2C1, P35348, O95136, P09603, P08151, O15540, O76093, Q07011, P56178, P98177, Q16254, O60725, P40238, Q9P212, Q15078, Q14512, P30048, P55895, P30874, Q03431, Q15406, O14786, P15531, Q14582, Q06945, P25100, P11487, P08620, P35368, Q01094, P26992, P04201, Q9UMR5, P56277, P63241, Q16674, O15296, P55789, P22301, O00144, O75144, Q9GZZ6, Q99835, Q92786, Q00987, Q07075, P32970

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GOID GO:0031279

TERM regulation of cyclase activity

P-VALUE 2.77509213500871e-12

CORRECTED P-VALUE 7.76748288588939e-09

NUM_ANNOTATIONS 36 (of 94)

ANNOTATED_GENES Q9Y5Y4, Q02643, P10323, P01258, Q14416, P47211, P21728, P08588, P33765, P21918, Q14831, P34998, P21359, O60755, Q96G91, Q08116, P30988, P18509, P48546, P49146, P43220, Q03431, P30874, P47871, P46089, O00222, P43080, P41146, P08912, P41143, O00230, P34969, P50148, P13945, P41145, P01286

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GOID GO:0001501

TERM skeletal system development

P-VALUE 2.79866212179657e-12

CORRECTED P-VALUE 7.8334552789086e-09

NUM_ANNOTATIONS 84 (of 355)

ANNOTATED_GENES P78562, P35548, P57679, P09017, P13942, Q9H161, O15266, P09067, Q9NRC9, P09016, P10827, Q14993, P98161, A1L0T6, P02818, P36897, P30988, Q15465, Q9NZW4, P21815, O60902, P22607, Q14623, P17509, P02753, O00238, P31270, P31249, P10767, O95076, P34820, P10071, P13497, Q14055, P35227, O43897, P57082, P17482, Q12870, P05111, P11473, Q9NR12, P10070, P15313, P10828, P31267, A1E959, P18075, P78367, P27037, Q9GZV9, P56706, P56179, Q13705, Q99218, P08151, P31273, P61812, Q13950, P22003, O43435, P21359, P12645, O76093, P15863, Q6NT51, P14651, P56178, O75829, P41180, Q03431, P55107, P28358, P08620, Q13103, Q14DW8, O43248, O00755, O95390, P21246, Q07687, P50148, Q99835, P02452

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GOID GO:0045761

TERM regulation of adenylate cyclase activity

P-VALUE 4.80042656599153e-12

CORRECTED P-VALUE 1.34363939582103e-08

NUM_ANNOTATIONS 35 (of 91)

ANNOTATED_GENES Q9Y5Y4, Q02643, P10323, P01258, Q14416, P47211, P21728, P08588, P33765, P21918, Q14831, P34998, P21359, O60755, Q96G91, Q08116, P30988, P18509, P48546, P49146, P43220, Q03431, P30874, P47871, P46089, O00222, P41146, P08912, P41143, O00230, P34969, P50148, P13945, P41145, P01286

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GOID GO:0051339

TERM regulation of lyase activity

P-VALUE 5.74512107111939e-12

CORRECTED P-VALUE 1.60805938780632e-08

NUM_ANNOTATIONS 36 (of 96)

ANNOTATED_GENES Q9Y5Y4, Q02643, P10323, P01258, Q14416, P47211, P21728, P08588, P33765, P21918, Q14831, P34998, P21359, O60755, Q96G91, Q08116, P30988, P18509, P48546, P49146, P43220, Q03431, P30874, P47871, P46089, O00222, P43080, P41146, P08912, P41143, O00230, P34969, P50148, P13945, P41145, P01286

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GOID GO:0007600

TERM sensory perception

P-VALUE 5.84933758846374e-12

CORRECTED P-VALUE 1.637229591011e-08

NUM_ANNOTATIONS 160 (of 865)

ANNOTATED_GENES O60266, Q13515, Q02962, Q9Y6N9, P09758, O95475, Q9NRC9, O14829, Q9NYV8, Q9NYW3, Q15835, P12271, O95918, Q8TDN2, O43186, P18545, Q8NFM1, Q9Y585, Q9NZW4, O00294, P10745, P53674, P30301, P22607, P43681, O00222, P51172, P35372, P26998, O15399, Q9UGF7, Q9H255, P41146, P82279, Q12837, P05813, P28223, P10828, P15313, Q15613, P08100, Q03395, P10588, P51160, P47804, P36575, Q9NYV7, Q3SYG4, P03999, O95237, O76002, Q92903, Q9Y5Y9, P11488, P48431, P26374, Q9Y3N9, O75916, O75083, Q9UI40, Q17R60, O14581, O60938, P14416, P51170, P43320, Q16281, P58173, P47881, Q9Y5M6, O43749, P28476, P43080, Q9NYW1, Q12791, P17787, O43789, P16499, P23760, P47890, O14926, P78424, P02452, P23415, P58182, O60404,

P14138, P13942, P35913, Q9UKL2, P19087, Q13507, Q5T4F7, P47887, P23942, Q9Y6H8, Q9UGM1, Q01955, O60403, Q13224, Q16518, Q13607, O75445, Q9NYV9, P31025, O76099, O75106, P47874, P29973, O15537, P02489, Q13956, O60840, O95500, P02753, Q9HC10, Q8N196, P22748, O43636, Q15618, P35243, P78363, O00295, P56373, P49335, P53673, P41145, Q96R84, P37088, P56693, O95834, P51841, P34982, P56696, P35240, Q9UBY8, Q14831, Q9GZU5, Q9NYW0, P54845, O60721, O15492, P28335, Q9NYW6, O75762, O14830, Q12879, Q13402, O60220, P20941, Q9NQN1, Q13606, P57727, Q9UKL4, P07320, P15382, Q02846, Q15319, O95222, Q14573

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GOID GO:0048869

TERM cellular developmental process

P-VALUE 6.27122973507391e-12

CORRECTED P-VALUE 1.75531720284719e-08

NUM_ANNOTATIONS 304 (of 1935)

ANNOTATED_GENES Q99584, Q02962, Q01534, Q06710, Q12959, O95631, P53667, P09544, Q14469, O15353, O43186, Q96J94, P02818, Q15465, Q16568, Q99581, P15923, P31270, P13497, O43897, Q8WZ75, O95948, P31213, Q16620, P32238, Q99453, P01588, Q12837, Q9NR12, P12821, Q13214, Q6UXY1, O60663, P20809, P21728, Q9C019, Q02548, P06401, P48742, O14788, Q05066, P61812, P21359, P15311, Q59GJ8, P02649, A0PK02, Q00653, P78504, O15522, Q13467, O95365, O15146, P60953, P51843, P25874, P28358, Q9UL68, Q9BRP0, P50553, P56703, Q14DW8, O75326, Q86VD1, A1A4U0, O95390, O15178, Q15768, O95947, P19622, O95185, O95754, Q9H2A3, P14138, O94788, P16150, Q5T4F7, Q9HAV5, Q68CZ1, O00526, Q14993, O60312, O75093, Q13972, Q3ZCU4, Q06455, Q16518, O75445, Q02577, Q9P2T0, P11831, Q14318, P01127, O00238, Q92563, Q01726, P47928, Q5UIP0, P52594, Q9H5I1, P49335, P10070, O95025, P36896, P07359, P18075, O60890, Q04721, P27037, Q8TC59, Q13705, P08151, P31273, P22003, Q8IYT8, P41743, O76093, P15863, O00555, Q00597, P98177, Q16254, P30048, Q12879, P55895, O14786, Q03431, Q9NWH7, Q13402, P17677, O60383, P62263, P62988, P11487, P08620, Q13117, O75094, P12035, Q99626, Q14093, Q07687, Q86YV9, Q15319, Q5JQC9, Q92786, O95259, O94887, O43316, Q15306, O15524, O00203, P09067, P01730, Q9NYL2, P27216, Q15835, P15291, P53805, P36897, Q13285, P25054, P30988, Q9Y236, Q14623, P10747, Q14990, Q9HCT0, P10767, P10071, P28370, P52945, Q99750, P82279, O15085, P35663, P14921, Q9Y463, P10828, P53708, P17542, P10588, A2NWD3, Q15784, Q13939, O14514, P98172, Q9Y698, Q9GZV9, P56706, Q3SYG4, Q03181, Q16650, Q01538, Q13950, P25391, P41586, P33681, P12645, P48431, Q9UJU5, Q14012, O75829, Q08289, O43184, Q9NS25, O60248, O43439, P14416, Q13485, P49640, O75602, P61296, Q12791,

Q9HBE4, O60609, P78362, P17787, Q86YL7, O15156, Q15303, O00755, Q03052, O60462, Q05952, Q13461, Q02297, O00115, P50148, P78424, Q07352, Q8NIFY4, Q12824, Q14190, Q08188, Q9UHL0, Q9Y261, O14543, P18206, Q5FVE4, O43312, P32856, P23769, P10276, A0PJG1, Q9H3Q1, O96004, P43146, P06340, P47989, P35221, Q13769, Q92838, O00468, P52803, O95183, P31249, Q01196, Q8N196, P05556, P34820, P26441, O60344, Q12955, P05111, O14813, O75553, P32297, O43711, P56693, Q02643, Q9UBY8, P35240, Q13501, P08588, Q9H2C1, P51679, P09603, O75360, P54845, Q6NT51, P56178, P55347, Q15078, Q14576, Q9H7Z6, Q9Y6L7, Q9BXA7, O00634, P24385, P04628, Q06945, O75603, Q9H295, Q5VVV10, Q02575, O43248, Q96PF2, O15296, P15382, O00144, P22301, Q99835, O43763, Q9UBC0

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GOID GO:0003002

TERM regionalization

P-VALUE 2.26418246769208e-11

CORRECTED P-VALUE 6.33744672707014e-08

NUM_ANNOTATIONS 56 (of 203)

ANNOTATED_GENES Q9Y261, O60663, P09017, O94788, Q9H161, O95813, P09067, P27037, Q68CZ1, Q9H488, P09016, Q13705, P08151, P31273, O75360, P15863, P14651, A1L0T6, Q12849, Q3ZCU4, P36897, P25054, P40425, Q15465, P17509, Q13485, P04628, P46109, Q14318, O75593, O00238, P31249, P28358, P31270, P11487, Q06587, P10071, Q9BRP0, P50222, P35227, Q99750, P17482, Q12870, P56703, Q14DW8, O00755, O43248, Q13635, O95390, O15178, Q07687, Q9H2H0, P10070, P31267, Q99835, Q14142

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GOID GO:0019933

TERM cAMP-mediated signaling

P-VALUE 3.60704539680508e-11

CORRECTED P-VALUE 1.00961200656574e-07

NUM_ANNOTATIONS 32 (of 83)

ANNOTATED_GENES P43220, P49146, Q9Y5Y4, P30874, Q03431, P47871, Q02643, P46089, P08172, O95838, P25100, P47211, P21728, P08588, P35368, P21918, P34947, P34998, P32245, P41146, Q13324, P08912, O00230, P41143, P34969, P50148, Q08116, P13945, P30988, P41145, P01286, O43603

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GOID GO:0007188

TERM G-protein signaling, coupled to cAMP nucleotide second messenger

P-VALUE 4.25878778785632e-11
CORRECTED P-VALUE 1.19203470182098e-07
NUM_ANNOTATIONS 31 (of 79)
ANNOTATED_GENES P49146, Q9Y5Y4, P30874, Q03431, P47871, Q02643,
P46089, P08172, O95838, P25100, P47211, P21728, P08588, P35368, P21918, P34947,
P34998, P32245, P41146, Q13324, P08912, P41143, O00230, P34969, P50148,
Q08116, P13945, P30988, P41145, P01286, O43603

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GOID GO:0007389

TERM pattern specification process

P-VALUE 9.53979550627809e-11

CORRECTED P-VALUE 2.67018876220724e-07

NUM_ANNOTATIONS 68 (of 280)

ANNOTATED_GENES Q9Y261, P09017, O94788, Q9H161, O60481, P09067,
Q68CZ1, P09016, A1L0T6, Q3ZCU4, P36897, P25054, Q15465, Q14623, P17509,
Q14318, O00238, P31270, P31249, Q06587, O95076, P10071, P50222, P35227,
Q99750, P17482, Q12870, Q13635, Q9H2H0, P10070, P31267, O60663, P18075,
P78367, P98172, O95813, P27037, Q9H488, Q13705, P08151, P22003, P31273,
O75360, P15863, P14651, Q12849, P40425, O14786, Q13485, O00587, P04628,
P46109, O75593, P28358, P11487, Q9BRP0, P50553, P56703, Q99626, Q14DW8,
O43248, O00755, O15178, O95390, Q07687, Q99835, Q14142, Q14190

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GOID GO:0007167

TERM enzyme linked receptor protein signaling pathway

P-VALUE 1.19990217228583e-10

CORRECTED P-VALUE 3.35852618022805e-07

NUM_ANNOTATIONS 95 (of 451)

ANNOTATED_GENES P49918, P35548, O14543, O15524, P29376, P01730,
O15198, Q14451, Q9H2X6, O43312, Q12913, P16471, P18545, Q9ULV8, P36897,
Q8WU20, O00451, P14616, P29320, P12931, O95405, P22607, O75962, O00468,
P18031, P08922, Q99988, Q9UK05, Q01082, Q13956, P01127, O00238, Q86UT5,
Q9H0K1, O95948, O60258, Q16620, P53708, P32297, P01286, P36896, A2NWD3,
P54756, P16234, P51841, Q02643, P18075, O75810, P01225, O95813, P27037,
Q16671, O43541, Q13705, P23468, O15530, P50052, P61812, Q13950, P17098,
O76093, P04085, P84022, O00555, Q07889, Q02763, P98177, O75829, Q9P212,
O15146, O14786, P55107, Q13485, O95297, Q99958, Q15375, O60383, O75593,
Q9HCN6, O43559, O60262, P49815, Q15303, P21246, P54762, P15514, Q15768,
Q16478, P54760, P01135, P06213, Q02846, O43318, P25092, Q9UBC0

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GOID GO:0007165

TERM signal transduction

P-VALUE 1.2829504930199e-10

CORRECTED P-VALUE 3.59097842996269e-07

NUM_ANNOTATIONS 754 (of 5693)

ANNOTATED_GENES O95944, Q9Y4I4, P50391, O15130, P01258, Q9NP86, O60906, P32302, Q9NYW3, P30872, O95755, Q13283, O75578, P01574, Q8NG66, P98161, P52824, P21980, Q07666, Q9Y6J3, Q16568, O00451, Q9Y576, O14654, P09681, Q8WUA7, Q01082, Q9NYZ4, Q15759, Q8NEB9, O14497, Q86UT5, O15399, Q9H255, O60258, P49802, P22105, Q16620, P32238, P48169, Q99445, P25942, P30989, P42684, Q04844, Q15382, P29371, P08173, O14544, Q68DL5, P50453, Q6UXY1, P20809, Q99742, Q9NYV7, O75448, P46093, O75787, P11488, P21359, O60755, O43898, P78504, O75916, P41180, Q13467, P34995, P01374, Q99958, O95297, P51178, P29762, Q3KR16, A4FU63, P47881, Q9HCN6, O60726, O75469, Q9UBT3, P50553, P28476, P43080, O43789, P54762, P49286, P15514, P01135, P17181, Q92772, P49918, P32745, P49703, P10826, O94788, P35913, Q9UKL2, P42261, P19087, Q68CZ1, O00409, Q01955, P25098, Q13224, Q05513, Q13972, O43612, Q9NYV9, P29320, O00329, P46089, Q14968, P08922, P18031, P51685, O00325, Q13956, O00238, Q86T24, O15519, Q15618, Q13255, Q01726, P49685, Q9UQ52, O95081, P02748, P51149, Q99928, P56373, P57058, Q9H2H0, P10070, Q06481, Q4KMP7, P41145, P01286, Q6ZT07, P47900, Q13163, Q04721, Q9P1P5, O95838, O43813, Q08AM6, Q9H488, P11215, P35348, Q13705, Q13477, P47872, P08151, P41587, Q9NYW0, Q8IYT8, P21796, P48039, O00555, P23508, P98177, Q9UBU2, P40238, Q12879, Q14512, P53041, O95672, P28221, Q96RI0, O60883, O15547, O75928, P11487, P08620, O60242, O60262, P32245, Q05BE4, Q6NV75, Q13077, Q9UPW8, Q16566, P37288, O75144, Q5JQC9, O94887, O14511, A0JLP1, O96013, P23497, P01563, P09758, Q13114, P32971, P01730, Q9NYL2, Q9NYV8, Q9H2X6, Q12913, P47898, Q15835, Q14641, Q9UEE5, O43324, P49796, P12872, P53805, Q13285, P30988, P25054, P00797, Q8WU20, P21731, O95405, O15055, O00522, Q99988, Q9P2N2, P10767, P10071, Q6NTB5, P35372, P41146, P52564, O43193, O15376, P34969, P28223, P19235, P08514, Q15771, Q14432, O75116, Q15613, Q13258, Q13191, P54756, P21781, P41273, O95264, Q01113, Q03181, Q9H252, P12314, O76002, Q16671, O15264, Q9P0X4, Q92903, O96001, Q13950, Q17R43, O00155, P41586, Q15172, Q9UHC6, O00253, P04085, P84022, O14727, O43283, Q02763, O15013, P49146, O14581, Q13609, Q9UQ05, A1E5M1, P47775, Q13485, P14416, O95202, Q15761, P13631, Q9HBE4, P78362, P17787, Q13324, Q15303, P10082, O75901, P34903, O60229, P18428, O75325, O15198, P25103, Q14451, P47887, O43312, P16471, P42127, Q9UBF8, Q04912, O95759,

P41594, P61106, P19174, P12931, Q92838, P47874, P47871, Q5IFH6, P26441, Q13237, Q9H0K1, P52701, Q9NPB3, P05111, P11473, Q13635, Q15825, Q13370, O43613, O43424, Q9NQ87, P20340, O95389, Q14738, O43295, Q17R89, P62942, P47211, Q9NS66, Q15208, P51679, O95158, Q14831, Q9H3V2, O75360, P46092, O14684, Q1ZYL3, Q13886, O15492, P17405, P30874, P08949, P24385, P02760, P30968, P04628, P25100, O75593, P35368, P32298, Q99677, O00574, Q9Y264, O00254, O75078, O60244, Q16478, P41968, Q99835, Q9UBC0, Q15750, Q15555, O60266, P22888, Q14164, O43182, P53667, P09544, P29376, Q14416, Q00722, Q04864, O43687, O95918, P46094, Q96G91, O43614, Q15404, Q15465, P51582, P01350, Q9UHD0, P22607, P80098, P43681, P08700, O95948, P42701, Q14123, P01588, O94810, Q14236, O75581, Q9Y2I9, P08100, P51160, P47804, P36575, P01225, O60921, P21728, P03999, P33765, O14804, O14924, O76036, O43541, P40933, P23468, P06401, Q9NS67, P34998, P28336, O00561, P61812, Q59GJ8, P02649, Q9Y3N9, P49758, P20800, P35225, O75388, Q9HCQ7, Q05586, P43487, Q08722, Q00653, Q8NC01, P60893, P22466, O15146, P60953, Q9BU20, P51843, Q96PG8, Q9UK32, Q16281, P57789, Q9NYW1, Q8IXF0, P56703, P16499, P08912, P47890, O15178, P21246, Q15768, P27815, P54760, P58182, Q6UWB1, Q13177, O95185, O15350, P14138, Q15907, P14619, P16150, Q5T4F7, Q9HAV5, Q6ZW31, P42263, Q99963, O43147, Q01362, O60447, O94989, Q9Y2Y0, Q9UBG7, Q3ZCU4, Q13607, Q9HB89, Q07890, P49137, P80192, O76099, Q02833, O43251, Q01064, Q14318, P01127, P09471, P16520, O43192, P51671, P35243, Q9NXL2, O75889, P52594, Q93098, Q12852, P21554, P13945, O14990, O15259, Q96R84, P36896, Q9BXL6, P07359, P10114, P51841, P18075, O75810, O60890, P27037, P36406, P62753, Q14571, Q7Z4W6, P34947, P50052, P41743, Q99490, O76093, Q13554, P13688, Q12802, Q15762, Q07889, Q9NYW6, Q9GZY6, Q03431, O75628, O14786, P55211, Q15120, P55107, Q13795, P17677, O60383, O43741, Q99061, P55196, O43559, Q9H3D4, O00178, P23416, O14939, Q13572, Q13393, P04818, Q13606, O75783, O95259, O95222, Q9HCR9, Q01344, P26012, P30550, Q14155, O15524, O75952, Q8N6U8, Q8WXH6, Q9BZC5, Q93097, Q9Y2B4, O75023, P18545, Q9UGP4, P63211, Q9ULV8, P46091, P30939, Q9Y585, P36897, P41970, Q15077, P43220, O75161, P06748, Q9GZP7, P28908, Q13671, O75962, Q14623, P47901, P10747, P08172, Q9UK05, Q5UAW9, O00222, Q08462, Q9H160, Q8WXV1, P22736, A0JNU9, O95157, Q9Y2X0, P30542, P52945, Q9UGF7, Q99750, Q07912, O75761, O43734, O15085, P78314, P53708, P05067, P10588, A2NWD3, Q13003, O14843, P34981, Q15654, O14514, O95813, P56706, P50406, Q05901, O15530, P47992, P25391, O95477, P33681, O95800, O43194, Q13087, Q14012, Q13639, O75829, O60519, P21452, Q02779, Q02156, O14733, O95835, Q15375, P58173, O60503, Q6GQQ9, Q14168, O43749, P49682, P35858, O60609, P49815, Q86YL7, P62805, O00755, A1L156, O00590, Q14CE0, O15484, P10911, Q02297, P50148, P05106, P06213, O00459, P25092, O15397, P52757, O15516, P39086, P23415,

Q14190, P28222, Q13835, Q9Y5Y4, P35548, O60404, P23945, O14543, Q13188, Q9Y3Y4, Q15628, P28472, P21918, P04808, P32856, P10276, Q9NTG1, P56559, Q13002, P42830, Q13588, P12757, Q04724, O60403, Q16099, Q08830, P36405, Q8NI35, Q9H3Q1, P51451, Q08116, Q15822, O00175, P35221, O43603, O75343, P14616, O00468, P05556, P01222, P50150, P00709, O14836, P61225, O95996, Q12955, O43555, Q9NZD1, P31391, O00230, A4QMS5, Q15139, P25021, Q13459, P32297, P35219, Q9Y478, P16234, P34982, Q02643, P49810, P33032, P48058, P35240, Q13501, P08588, Q9H0E9, P01031, O95136, Q9BRG2, Q5JPD2, P17098, P47870, P50570, P28335, O60725, Q15078, P48546, Q9P212, Q9H596, Q01718, P46109, Q06945, P31644, Q00005, P20941, P26992, P04201, Q9UMR5, Q9NQN1, P34972, P48023, P28566, P41143, Q15057, P32247, O00144, P22301, Q13797, Q02846, O43318, P32970, Q14573

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GOID GO:0042127 & cell proliferation

TERM regulation of cell proliferation

P-VALUE 2.91862780650428e-10

CORRECTED P-VALUE 8.16923923040549e-07

NUM_ANNOTATIONS 130 (of 696)

ANNOTATED_GENES P42771, O95631, P09544, Q00577, Q14469, Q9BZS1, P56545, P30872, O43324, P15248, P01574, P15291, P21980, P36897, P25054, Q15465, P06748, P28908, Q14623, P10747, P08700, P10071, P35372, P52945, P42701, O60258, Q99445, P01588, P14921, P28223, A2NWD3, P21781, P20809, P98172, O14514, O95813, P40933, P61812, Q13950, P21359, P25391, P02649, P20800, Q05215, P04085, P98088, Q08722, O15522, P22466, P01374, P14416, Q13485, Q9BRP0, P13631, Q9HBE4, P49815, P17787, P49356, O95390, O15178, P21246, Q13461, P01135, O95995, Q969Z0, Q12824, P41235, P32745, P49918, P35548, P14138, Q96IZ0, O94788, P55273, P16150, Q01955, P42830, O95684, Q04912, P51531, O95759, Q14201, P35221, P01127, P02753, P05556, Q8N196, O14683, P35070, P47928, P28069, P31391, Q14004, P01286, Q99801, P16234, Q02643, P18075, Q04721, P35240, O95838, Q9H2C1, P35348, O95136, P09603, P08151, O15540, O76093, Q07011, P56178, P98177, O60725, Q14512, P30048, Q03431, O14786, P30874, P15531, Q14582, Q06945, P25100, P08620, P26992, Q9UMR5, O15296, P22301, O75144, Q92786, Q00987, Q99835

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GOID GO:0048523

TERM negative regulation of cellular process

P-VALUE 3.01041672904498e-10

CORRECTED P-VALUE 8.4261564245969e-07

NUM_ANNOTATIONS 262 (of 1675)
ANNOTATED_GENES Q02962, Q12959, O43182, P42771, O95631, P01258, P09544, Q00577, Q13105, Q14469, O00198, P30872, O75427, P01574, Q07666, Q15465, P18509, Q16568, Q9Y576, Q6VMQ6, Q01082, P08700, Q15697, Q86UT5, O95948, P49802, Q99445, Q99453, Q14678, O43829, Q12837, O94810, O14544, P50453, P20809, Q99742, Q9NQC7, O60921, Q13813, P98170, O14924, P61812, P21359, P02649, O94776, P49758, P98088, O14753, O43240, P78504, O75916, P63279, O15522, O95365, P22466, Q9BZZ5, Q9BQ70, P01374, P60953, P51843, O95980, O75469, Q9UBT3, Q9BRP0, Q9Y250, P49356, O95390, O95995, P49918, P32745, O14604, O95754, O15350, Q96IZ0, P16150, O00409, Q01955, P25098, Q05513, O00358, Q3ZCU4, O75445, P02489, Q9NP08, O43251, Q9Y294, P01127, O15519, P47928, O00233, Q5UIP0, Q8N6T7, Q9H2H0, P10070, Q9NP71, P36896, P06727, P18075, Q04721, P54259, P35348, P50052, P31273, O15540, Q8IYT8, Q07011, O00555, P23508, P09327, P98177, Q9UBU2, P30048, Q14512, O75366, Q8NFZ8, O14786, Q03431, Q15406, O43593, O60383, P62263, P08620, Q9H3D4, Q01094, P48380, O14939, Q07687, Q13506, Q92786, P51786, P23497, Q9Y2Y4, O15524, P56545, Q9BZS1, P05154, P10827, Q8WYB5, O43324, Q9Y2B4, P15291, P49796, P08910, P53805, Q9ULV8, P36897, P16989, P41970, P25054, P06748, P28908, Q14623, P10747, O00222, Q9UK05, P10071, P35227, P35372, P52945, Q99750, P14921, P28223, Q13191, A2NWD3, Q13003, P78367, O14514, O95813, O75896, Q03181, O75446, Q13950, P48431, Q9Y6E7, Q9UJU5, P84022, P04085, O75829, O60519, P49454, P11137, O43439, O60248, O95835, P14416, Q13485, Q9Y2Y8, P13631, Q6GQQ9, P23759, P49815, P52907, Q02297, O00459, Q12824, P23415, Q14190, P41235, P35548, Q9Y261, O14543, P18206, P55273, Q96JB3, Q12981, O43312, P16471, P15056, P02768, Q04724, Q15466, P51531, Q08116, O96004, P43146, Q14201, P35221, Q13769, P02753, P05556, Q8N196, O95125, P50150, O14683, P52701, P11473, P05111, P28069, P31391, Q13635, P62714, O43711, Q99801, O75414, O00488, P35240, Q9UBY8, P47756, O75360, P17098, Q6NT51, O15492, A2RRE3, P28335, Q01658, Q9H7Z6, P30874, P15531, Q14582, P02760, Q06945, O75593, P35368, O75603, O00425, O15296, P22301, Q00987, Q99835, O43763, Q9UBC0, Q9NRC6

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GOID GO:0042127

TERM ®ulation of cell proliferation

P-VALUE 5.00704490381424e-10

CORRECTED P-VALUE 1.40147186857761e-06

NUM_ANNOTATIONS 137 (of 751)

ANNOTATED_GENES P30550, P42771, O95631, P09544, Q00577, Q14469, Q9BZS1, P56545, P30872, O43324, P15248, P01574, P15291, P21980, P36897,

P25054, Q15465, P06748, P28908, Q14623, P10747, P08700, P10071, P35372, P52945, P42701, O60258, Q99445, P01588, P14921, P28223, A2NWD3, P21781, P20809, P98172, O14514, O95813, P40933, P61812, Q13950, P21359, P25391, P02649, P20800, Q05215, P04085, P98088, Q08722, Q02763, P78504, O15522, P22466, P01374, P14416, Q13485, Q9BRP0, P13631, Q9HBE4, P49815, P17787, P49356, O95390, P21246, O15178, Q13461, P01135, O95995, Q969Z0, Q12824, P41235, P32745, P49918, P35548, P14138, Q96IZ0, O94788, P55273, P16150, Q01955, P42830, O95684, Q04912, P51531, O95759, Q14201, P35221, O43251, P01127, P02753, P05556, Q8N196, O14683, P35070, P47928, P05111, P28069, P31391, Q14004, P01286, Q99801, P16234, Q02643, P18075, Q04721, O95838, P35240, Q9H2C1, P35348, O95136, P09603, P08151, O15540, O76093, Q07011, P56178, P98177, Q16254, O60725, Q14512, P30048, Q03431, O14786, P30874, P15531, Q14582, Q06945, P25100, P08620, P26992, Q9UMR5, O15296, P22301, O75144, Q92786, Q00987, Q99835, Q9GZZ6

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GOID GO:0000003

TERM reproduction

P-VALUE 5.39326418392345e-10

CORRECTED P-VALUE 1.50957464508017e-06

NUM_ANNOTATIONS 139 (of 766)

ANNOTATED_GENES P22888, P10323, O95972, Q01534, P20742, P01258, P09544, P01730, Q96S53, P56545, Q9H2X6, P05154, Q14641, O95918, Q15431, Q96J94, P01574, O00308, P15291, P16989, P36897, Q13285, Q15465, P18509, Q9Y576, Q9Y236, Q14990, P10747, Q15414, P31213, P11464, P01588, P35663, P54107, P19235, Q14507, Q13939, O43196, P01225, P49916, P21728, Q14565, Q03181, Q02548, Q16671, O43506, Q15067, P06401, O60423, P34998, Q05066, O15457, P41586, P14902, P51610, P84022, P15289, O14753, P37058, Q9NS25, O14599, O60248, P16104, P51843, O95450, P38567, Q15223, O75602, P05362, Q8IXF0, Q86VD1, O00755, Q05952, P06213, Q12824, Q92772, P23415, P23945, Q9UHL0, O75508, Q5FVE4, Q02383, P04808, P32856, Q9NTG1, P16471, P04090, O95072, Q04912, Q12889, P47989, O75575, Q02577, O76099, Q9P2T0, P29973, O75031, O00238, P02753, P05556, Q8N196, P49638, P08842, P05111, P52594, P41145, P16234, Q02643, Q96L21, P27037, Q08648, Q8TC59, P08151, Q12816, Q99645, P22612, Q6T1H8, P48039, Q13886, Q00597, P55285, Q96BH3, Q9BXA7, Q15406, Q99865, Q9NWH7, P02760, Q9Y5K1, O60383, Q5T230, Q13117, O00574, P35527, Q14093, P63241, Q96PF2, P55789, Q9UKF5, Q5JQC9

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GOID GO:0006357

TERM regulation of transcription from RNA polymerase II promoter

P-VALUE 6.78232756038874e-10

CORRECTED P-VALUE 1.89837348415281e-06

NUM_ANNOTATIONS 132 (of 719)

ANNOTATED_GENES P51786, P23497, Q9Y2Y4, Q02962, Q06710, Q14469, P05549, O15353, Q7KZ85, P10827, O43186, P16989, Q13285, Q9Y2D1, Q15465, P04198, Q14623, Q6VMQ6, P22736, P35227, Q15697, Q9Y2X0, P52945, O95948, Q99750, Q12870, O14647, P52747, O43829, P01588, Q12837, P14921, O75486, Q15784, Q99742, P20809, Q03181, Q16650, O75446, Q13950, O43435, Q12873, P48431, O94776, Q9UJU5, Q02446, Q05586, P84022, O14753, Q9Y651, O95365, P40425, Q9BQ70, Q16552, O60248, P51843, O75528, Q13485, P49640, P28358, P61296, P13631, P50553, Q16656, O15178, O15370, P19419, O15516, Q12824, Q14190, P41235, Q9Y261, Q6UUV9, Q96IZ0, Q9H2A3, Q9H161, O75333, P23769, P41223, Q15466, Q10587, P51531, O00358, Q3ZCU4, O96004, Q96GM5, Q9H944, O00468, P11831, Q01196, O95125, Q96KN3, P47928, P10070, Q9NP71, P56693, Q92481, P18075, O00488, P54259, Q9Y6J9, Q13501, Q9H0E9, P08151, P31273, O75360, P17098, P54845, Q6NT51, P15863, Q13886, P55347, A2RRE3, Q01658, Q16254, P20823, Q15406, Q14582, P62263, O75593, Q5T230, Q01094, Q14541, Q5VVI0, O60244, O95163, Q07687, Q14241, Q00987, Q15319, Q9UBC0, P51532

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GOID GO:0048519

TERM negative regulation of biological process

P-VALUE 1.03120518491256e-09

CORRECTED P-VALUE 2.88634331257026e-06

NUM_ANNOTATIONS 277 (of 1813)

ANNOTATED_GENES Q02962, Q12959, O43182, P42771, O95631, P01258, P09544, Q00577, Q13105, Q14469, O00198, P30872, O75427, Q96J94, P01574, Q07666, Q15465, P18509, Q16568, Q9Y576, Q6VMQ6, P00748, Q01082, P08700, Q15697, Q86UT5, O95948, P49802, Q99445, Q99453, Q14678, O43829, P03952, Q12837, O94810, O14544, P50453, P20809, Q99742, Q9NQC7, O60921, Q13813, P21728, P98170, O14924, P61812, P21359, P02649, O94776, P49758, P98088, O14753, O43240, P78504, O75916, P63279, O15522, O95365, P22466, Q9BZZ5, Q9BQ70, P01374, P60953, P51843, O95980, O75469, Q9UBT3, Q9BRP0, Q9Y250, P49356, O95390, O95995, P49918, P32745, O14604, Q6UWB1, O95754, O15350, Q96IZ0, P16150, O00409, Q01955, P25098, Q05513, O00358, Q3ZCU4, O75445, P02489, Q9NP08, O43251, Q9Y294, P01127, O15519, P47928, O00233, Q5UIP0, Q8N6T7, Q9H2H0, P10070, Q9NP71, P36896, P06727, P07359, P18075, Q04721, P54259, P35348, P50052, P31273, O15540, Q8IYT8, Q07011, O00555, P23508, P09327, P98177, Q9UBU2, P30048, Q12879, Q14512, O75366, Q8NFX8, O14786,

Q03431, Q15406, O43593, O60383, P62263, P08620, Q9H3D4, Q01094, P48380, O14939, Q07687, Q13506, Q92786, P51786, P23497, Q9Y2Y4, Q9UL18, O15524, Q9BZS1, P56545, P05154, P10827, Q8WYB5, O43324, Q9Y2B4, P49796, P15291, Q9ULV8, P08910, P53805, P36897, P16989, P41970, P25054, P30988, P06748, P28908, Q14623, P10747, Q9UK05, O00222, P10071, P35227, P35372, P52945, Q99750, P14921, P28223, Q13191, A2NWD3, Q13003, P78367, O14514, O95813, O75896, Q03181, O75446, Q13950, P48431, Q9Y6E7, Q9UJU5, P84022, P04085, O75829, O60519, P49454, P11137, O43439, O60248, O95835, Q13485, P14416, Q9Y2Y8, P13631, Q6GQQ9, Q12791, P23759, P49815, P52907, Q02297, O00459, Q12824, P23415, Q14190, P41235, P35548, P18428, Q9Y261, O14543, P18206, P55273, Q96JB3, Q12981, O43312, P10276, P16471, P15056, P02768, Q04724, Q15466, P51531, Q08116, O96004, P43146, Q14201, P35221, Q13769, P02753, P05556, Q8N196, O95125, P50150, O14683, P52701, P11473, P05111, P28069, P31391, Q13635, P62714, O43711, Q99801, O75414, O00488, P35240, Q9UBY8, P08588, P47756, O75360, P17098, P03951, Q6NT51, O15492, A2RRE3, P28335, Q01658, Q9H7Z6, P30874, P15531, Q14582, P02760, Q06945, O75593, P25100, P35368, O75603, O00425, O15296, P22301, Q00987, Q99835, O43763, Q9UBC0, Q9NRC6

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GOID GO:0007610

TERM behavior

P-VALUE 1.09244850556525e-09

CORRECTED P-VALUE 3.05776336707712e-06

NUM_ANNOTATIONS 96 (of 476)

ANNOTATED_GENES Q9BXM0, Q9Y5Y4, P50391, P14138, P42261, P25103, P16150, P42830, P42127, P46094, Q13224, Q13972, O43614, P25189, O43612, P41594, O00175, O43603, Q16568, Q02577, O75161, P43220, P80098, P43681, P51685, Q01064, P01127, P35372, P51671, O15399, Q12870, P32238, P30989, P56373, P28223, P21554, O43613, P53708, P32297, P41145, O15259, Q15784, Q9Y277, Q99742, P17900, Q9UBY8, P21728, P51679, P01031, Q14831, P50052, P34998, O96001, P61812, P47992, P21359, O60755, P48039, P46092, P20800, O00253, P04085, O00555, Q05586, Q08828, P28335, P41180, P22466, Q12879, P49146, P14416, P31644, P28358, P35368, P49682, Q12791, O60262, P34972, Q8IXF0, P32245, Q13393, P49815, P17787, P10082, P41143, O00590, P21246, P37288, Q15768, P32247, P50148, P22301, O00144, O15467, O75973, P23415

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GOID GO:0022414

TERM reproductive process

P-VALUE 1.22201410395034e-09
CORRECTED P-VALUE 3.42041747695699e-06
NUM_ANNOTATIONS 137 (of 761)
ANNOTATED_GENES P22888, P10323, O95972, Q01534, P20742, P01258, P09544, Q96S53, P56545, Q9H2X6, P05154, Q14641, O95918, Q15431, Q96J94, P01574, O00308, P15291, P16989, P36897, Q13285, Q15465, P18509, Q9Y576, Q9Y236, Q14990, P10747, Q15414, P31213, P11464, P01588, P35663, P54107, P19235, Q14507, Q13939, O43196, P01225, P49916, P21728, Q14565, Q03181, Q02548, Q16671, O43506, Q15067, P06401, O60423, P34998, Q05066, O15457, P41586, P14902, P51610, P84022, P15289, O14753, P37058, Q9NS25, O14599, O60248, P16104, P51843, O95450, P38567, Q15223, O75602, P05362, Q8IXF0, Q86VD1, O00755, Q05952, P06213, Q12824, Q92772, P23415, P23945, Q9UHL0, O75508, Q5FVE4, P04808, P32856, Q9NTG1, P16471, P04090, O95072, Q04912, Q12889, P47989, O75575, Q02577, O76099, P29973, Q9P2T0, O75031, O00238, P02753, P05556, Q8N196, P49638, P08842, P05111, P52594, P41145, P16234, Q02643, Q96L21, P27037, Q08648, Q8TC59, P08151, Q12816, Q99645, P22612, Q6T1H8, P48039, Q13886, Q00597, P55285, Q96BH3, Q9BXA7, Q15406, Q99865, Q9NWH7, P02760, Q9Y5K1, O60383, Q5T230, Q13117, O00574, P35527, Q14093, P63241, Q96PF2, P55789, Q9UKF5, Q5JQC9

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GOID GO:0009952

TERM anterior/posterior pattern formation

P-VALUE 3.22892295211838e-09

CORRECTED P-VALUE 9.03775534297936e-06

NUM_ANNOTATIONS 40 (of 138)

ANNOTATED_GENES Q9Y261, P09017, O94788, Q9H161, O95813, P27037, P09067, Q9H488, P09016, Q13705, P31273, P15863, P14651, A1L0T6, Q12849, Q3ZCU4, P36897, P25054, Q15465, P17509, Q13485, P04628, P46109, O75593, P31249, P28358, P31270, Q06587, P10071, P50222, P35227, Q12870, P17482, P56703, Q14DW8, O43248, O95390, O15178, P31267, Q14142

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GOID GO:0045762

TERM positive regulation of adenylate cyclase activity

P-VALUE 3.36560618698561e-09

CORRECTED P-VALUE 9.42033171737273e-06

NUM_ANNOTATIONS 22 (of 51)

ANNOTATED_GENES P43220, Q03431, P47871, Q02643, P10323, P46089, P01258, P47211, P21728, P08588, P33765, P21918, P34998, P21359, Q96G91, P34969, P50148, P13945, P30988, P18509, P48546, P01286

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GOID GO:0009891

TERM positive regulation of biosynthetic process

P-VALUE 3.78457207052581e-09

CORRECTED P-VALUE 1.05930172254017e-05

NUM_ANNOTATIONS 118 (of 639)

ANNOTATED_GENES P41235, Q15306, P23497, Q9Y261, Q02962, O15350, Q9H2A3, Q6UUV9, Q06710, Q9H161, Q12951, P01730, P16150, Q9BZS1, Q9H2X6, Q04864, P23769, Q8WYB5, P10827, P15248, O43186, O00358, Q3ZCU4, O96004, Q13285, Q15465, Q96GM5, P28908, Q14623, O00468, Q6VMQ6, P10747, P11831, P15923, Q9Y294, Q9UK05, P01127, Q01196, Q9H160, P08700, P28370, P22736, O14497, Q9UIH9, P52945, O95948, O00233, P28069, O15085, P01588, Q12837, P14921, Q9Y463, P10070, Q9NP71, P01286, P16234, P56693, Q92481, P18075, Q02643, P20809, P21728, Q13501, Q9UMN6, Q16650, P50052, P08151, P61812, Q13950, O75360, O95477, P33681, P48431, P02649, O94776, P54845, P15863, Q9UJU5, Q6NT51, P04085, P84022, Q05586, P55347, P40425, Q9H7Z6, Q16552, P20823, O60248, Q99958, Q13485, P49640, P04628, Q06945, Q9Y2Y8, O75928, O75593, P62988, P28358, Q5T230, Q9H3D4, Q9BRP0, P61296, P13631, P50553, Q9HBE4, P63241, Q5VVI0, O15178, O60244, O76054, P15514, Q07687, P19419, P35680, P22301, P06213, O15516

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GOID GO:0031281

TERM positive regulation of cyclase activity

P-VALUE 5.2390797717626e-09

CORRECTED P-VALUE 1.46641842811635e-05

NUM_ANNOTATIONS 22 (of 52)

ANNOTATED_GENES P43220, Q03431, P47871, Q02643, P10323, P46089, P01258, P47211, P21728, P08588, P33765, P21918, P34998, P21359, Q96G91, P34969, P50148, P13945, P30988, P18509, P48546, P01286

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GOID GO:0045935

TERM positive regulation of nucleobase, nucleoside, nucleotide and nucleic acid metabolic process

P-VALUE 6.65130229254666e-09

CORRECTED P-VALUE 1.86169951168381e-05
NUM_ANNOTATIONS 108 (of 575)
ANNOTATED_GENES P41235, Q15306, P23497, Q9Y261, Q02962, O15350, Q9H2A3, Q6UUUV9, Q06710, Q9H161, Q12951, Q9BZS1, Q9H2X6, Q04864, P23769, Q8WYB5, P10827, O43186, O00358, Q3ZCU4, O96004, Q13285, Q15465, Q96GM5, Q14623, O00468, Q6VMQ6, P11831, P15923, Q9Y294, Q9UK05, P01127, Q01196, Q9H160, P08700, P28370, P22736, O14497, Q9UIH9, Q09161, P52945, O95948, O00233, P28069, O15085, P01588, Q12837, P14921, Q9Y463, P10070, Q9NP71, P01286, P16234, P56693, Q92481, Q02643, P18075, P20809, P21728, Q13501, Q9UMN6, Q16650, P08151, Q13950, O75360, O95477, P33681, P48431, P02649, O94776, P54845, P15863, Q9UJU5, Q6NT51, P04085, P84022, Q05586, P55347, P40425, Q9H7Z6, Q16552, P20823, O60248, Q99958, Q13485, P49640, P04628, Q06945, O75928, O75593, P62988, P28358, Q5T230, Q9BRP0, Q9H3D4, P61296, P13631, P50553, Q5VVI0, O15178, O60244, O76054, P15514, Q07687, P19419, P35680, P06213, O15516

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GOID GO:0010557

TERM +positive regulation of macromolecule biosynthetic process

P-VALUE 7.36168624821614e-09

CORRECTED P-VALUE 2.0605359808757e-05

NUM_ANNOTATIONS 113 (of 611)

ANNOTATED_GENES P41235, Q15306, P23497, Q9Y261, Q02962, O15350, Q9H2A3, Q6UUUV9, Q06710, Q9H161, Q12951, P01730, P16150, Q9BZS1, Q9H2X6, Q04864, P23769, Q8WYB5, P10827, P15248, O43186, O00358, Q3ZCU4, O96004, Q13285, Q15465, Q96GM5, P28908, Q14623, O00468, Q6VMQ6, P10747, P11831, P15923, Q9Y294, Q9UK05, P01127, Q01196, Q9H160, P08700, P28370, P22736, O14497, Q9UIH9, P52945, O95948, O00233, P28069, O15085, P01588, Q12837, P14921, Q9Y463, P10070, Q9NP71, P01286, P16234, P56693, Q92481, P18075, P20809, Q13501, Q9UMN6, Q16650, P08151, P61812, Q13950, O75360, P33681, P48431, O94776, P54845, P15863, Q9UJU5, Q6NT51, P04085, P84022, Q05586, P55347, P40425, Q9H7Z6, Q16552, P20823, O60248, Q99958, Q13485, P49640, P04628, Q06945, Q9Y2Y8, O75928, O75593, P62988, P28358, Q5T230, Q9BRP0, Q9H3D4, P61296, P13631, P50553, Q9HBE4, P63241, Q5VVI0, O15178, O60244, O76054, P15514, Q07687, P19419, P35680, P22301, P06213, O15516

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GOID GO:0010557 + macromolecule biosynthetic process

TERM positive regulation of macromolecule biosynthetic process

P-VALUE 7.36168624821614e-09

CORRECTED P-VALUE 2.0605359808757e-05
NUM_ANNOTATIONS 113 (of 611)
ANNOTATED_GENES P41235, Q15306, P23497, Q9Y261, Q02962, O15350, Q9H2A3, Q6UUUV9, Q06710, Q9H161, Q12951, P01730, P16150, Q9BZS1, Q9H2X6, Q04864, P23769, Q8WYB5, P10827, P15248, O43186, O00358, Q3ZCU4, O96004, Q13285, Q15465, Q96GM5, P28908, Q14623, O00468, Q6VMQ6, P10747, P11831, P15923, Q9Y294, Q9UK05, P01127, Q01196, Q9H160, P08700, P28370, P22736, O14497, Q9UIH9, P52945, O95948, O00233, P28069, O15085, P01588, Q12837, P14921, Q9Y463, P10070, Q9NP71, P01286, P16234, P56693, Q92481, P18075, P20809, Q13501, Q9UMN6, Q16650, P08151, P61812, Q13950, O75360, P33681, P48431, O94776, P54845, P15863, Q9UJU5, Q6NT51, P04085, P84022, Q05586, P55347, P40425, Q9H7Z6, Q16552, P20823, O60248, Q99958, Q13485, P49640, P04628, Q06945, Q9Y2Y8, O75928, O75593, P62988, P28358, Q5T230, Q9BRP0, Q9H3D4, P61296, P13631, P50553, Q9HBE4, P63241, Q5VVI0, O15178, O60244, O76054, P15514, Q07687, P19419, P35680, P22301, P06213, O15516

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GOID GO:0051239

TERM ®ulation of multicellular organismal process

P-VALUE 7.53780611851209e-09

CORRECTED P-VALUE 2.10983193257153e-05

NUM_ANNOTATIONS 130 (of 732)

ANNOTATED_GENES Q15306, O95631, P53667, O00203, P01258, P01730, Q14469, P23582, Q9BZS1, Q04864, P10827, P15248, O43186, P30988, Q15465, Q16568, Q14500, P43220, Q9Y576, P28908, Q14623, P00748, P10747, P08172, Q99453, P03952, P14921, P28223, P10828, P12821, Q13003, P56706, P21728, O75787, P33765, O14788, P61812, Q13950, P21359, P33681, P02649, Q02446, P20800, P04085, A0PK02, P84022, P78504, O75829, P24043, P01374, O15146, O60248, P17661, P14416, Q13485, Q9Y2Y8, Q9Y3Q4, P50553, Q12791, Q9HBE4, P17787, A1A4U0, O00755, Q02297, P17181, P23415, P18428, Q9Y261, Q6UWB1, O95754, P14138, Q15628, P16150, P55073, P23769, P10276, Q01955, P25098, Q13002, Q13224, Q13972, Q3ZCU4, P06340, P41594, Q9UJ96, P35221, Q13769, O00468, P11831, P31249, O00238, Q01196, P01127, P02753, P47928, P05111, P56373, Q13635, P36896, P01286, O43711, P07359, Q02643, P18075, P27037, P08588, Q9H2C1, Q13705, P50052, P08151, P03951, Q8IYT8, O00555, P56178, P98177, P28335, Q12879, O14786, P25100, P62988, P35368, P32245, O00425, P15382, Q07687, Q16478, P22301, O43318, Q99835, O43763

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GOID GO:0051239 & multicellular organismal process

TERM regulation of multicellular organismal process

P-VALUE 7.53780611851209e-09

CORRECTED P-VALUE 2.10983193257153e-05

NUM_ANNOTATIONS 130 (of 732)

ANNOTATED_GENES Q15306, O95631, P53667, O00203, P01258, P01730, Q14469, P23582, Q9BZS1, Q04864, P10827, P15248, O43186, P30988, Q15465, Q16568, Q14500, P43220, Q9Y576, P28908, Q14623, P00748, P10747, P08172, Q99453, P03952, P14921, P28223, P10828, P12821, Q13003, P56706, P21728, O75787, P33765, O14788, P61812, Q13950, P21359, P33681, P02649, Q02446, P20800, P04085, A0PK02, P84022, P78504, O75829, P24043, P01374, O15146, O60248, P17661, P14416, Q13485, Q9Y2Y8, Q9Y3Q4, P50553, Q12791, Q9HBE4, P17787, A1A4U0, O00755, Q02297, P17181, P23415, P18428, Q9Y261, Q6UWB1, O95754, P14138, Q15628, P16150, P55073, P23769, P10276, Q01955, P25098, Q13002, Q13224, Q13972, Q3ZCU4, P06340, P41594, Q9UJ96, P35221, Q13769, O00468, P11831, P31249, O00238, Q01196, P01127, P02753, P47928, P05111, P56373, Q13635, P36896, P01286, O43711, P07359, Q02643, P18075, P27037, P08588, Q9H2C1, Q13705, P50052, P08151, P03951, Q8IYT8, O00555, P56178, P98177, P28335, Q12879, O14786, P25100, P62988, P35368, P32245, O00425, P15382, Q07687, Q16478, P22301, O43318, Q99835, O43763

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GOID GO:0031328

TERM positive regulation of cellular biosynthetic process

P-VALUE 7.99614742575872e-09

CORRECTED P-VALUE 2.23812166446986e-05

NUM_ANNOTATIONS 116 (of 633)

ANNOTATED_GENES P41235, Q15306, P23497, Q9Y261, Q02962, O15350, Q9H2A3, Q6UUV9, Q06710, Q9H161, Q12951, P01730, P16150, Q9BZS1, Q9H2X6, Q04864, P23769, Q8WYB5, P10827, P15248, O43186, O00358, Q3ZCU4, O96004, Q13285, Q15465, Q96GM5, P28908, Q14623, O00468, Q6VMQ6, P10747, P11831, P15923, Q9Y294, Q9UK05, P01127, Q01196, Q9H160, P08700, P28370, P22736, O14497, Q9UIH9, P52945, O95948, O00233, P28069, O15085, P01588, Q12837, P14921, Q9Y463, P10070, Q9NP71, P01286, P16234, P56693, Q92481, P18075, Q02643, P20809, P21728, Q13501, Q9UMN6, Q16650, P50052, P08151, Q13950, O75360, O95477, P33681, P48431, P02649, O94776, P54845, P15863, Q9UJU5, Q6NT51, P04085, P84022, Q05586, P55347, P40425, Q9H7Z6, Q16552, P20823, O60248, Q99958, Q13485, P49640, P04628, Q06945, Q9Y2Y8, O75928, O75593, P62988, P28358, Q5T230, Q9H3D4, Q9BRP0, P61296, P13631, P50553, Q9HBE4, P63241, Q5VVI0, O15178, O60244, O76054, P15514, Q07687, P19419, P35680, P06213, O15516

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GOID GO:0051349

TERM positive regulation of lyase activity

P-VALUE 1.21918809209779e-08

CORRECTED P-VALUE 3.4125074697817e-05

NUM_ANNOTATIONS 22 (of 54)

ANNOTATED_GENES P43220, Q03431, P47871, Q02643, P10323, P46089, P01258, P47211, P21728, P08588, P33765, P21918, P34998, P21359, Q96G91, P34969, P50148, P13945, P30988, P18509, P48546, P01286

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GOID GO:0048598

TERM embryonic morphogenesis

P-VALUE 1.97231667899082e-08

CORRECTED P-VALUE 5.5205143844953e-05

NUM_ANNOTATIONS 66 (of 303)

ANNOTATED_GENES P35548, Q9Y261, Q02962, P09017, O94788, Q9H161, Q12951, P09067, Q68CZ1, P09016, Q9UGM1, A1L0T6, O00358, Q3ZCU4, O96004, P36897, Q15465, P17509, P02753, P31270, P31249, O95076, P10071, P35227, P52945, P57082, Q13635, P10070, P53708, P31267, P61968, Q9UHF3, P18075, P56696, P78367, P27037, O95813, Q9C019, P08151, O43435, P48431, P14651, Q12849, P56178, O14727, P40425, Q13402, Q13795, Q13485, P04628, P28358, P08620, Q9BRP0, P13631, P56703, P49815, Q14DW8, O43248, O00755, P35556, O15178, O95947, P50148, Q07687, Q15319, O43763

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GOID GO:0048705

TERM skeletal system morphogenesis

P-VALUE 2.61834207142796e-08

CORRECTED P-VALUE 7.32873945792686e-05

NUM_ANNOTATIONS 29 (of 89)

ANNOTATED_GENES P78367, P17509, Q9H161, P09067, Q9NRC9, O00238, P28358, P31249, P08620, P10767, O95076, P13497, P10071, P09016, P35227, P31273, O43435, P57082, P10827, Q12870, O76093, Q6NT51, P98161, O00755, P14651, A1L0T6, Q07687, P36897, P31267

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GOID GO:0009790

TERM embryonic development

P-VALUE 2.72541240488347e-08
CORRECTED P-VALUE 7.62842932126882e-05
NUM_ANNOTATIONS 109 (of 597)
ANNOTATED_GENES P35548, Q9Y261, Q02962, P09017, O94788, Q9H161, Q12951, P09067, Q9HAV5, Q68CZ1, P09016, Q9UGM1, P23769, P98161, Q13224, A1L0T6, O00358, Q3ZCU4, O96004, P16989, P36897, Q15465, Q14623, P17509, P11831, Q07955, P02753, P31270, P31249, P05556, O95076, P10071, P50222, P35227, P52945, Q99750, P57082, P17482, Q12870, Q13635, P19235, Q9H2H0, P10070, P53708, P31267, P61968, Q9UHF3, P36896, O00482, P56693, O60663, P56696, P18075, P78367, P98172, O60921, O95813, P27037, Q9H488, Q9C019, P08151, P61812, O43435, P25391, Q59GJ8, P48431, P15863, Q9UJU5, P14651, Q12849, P04085, P56178, O14727, P24043, P40425, O60725, Q15078, O14786, Q13402, Q13795, Q13485, P49640, P04628, O75593, P28358, P08620, Q9Y3Q4, Q9BRP0, P61296, P13631, P56703, Q99626, P49815, Q14DW8, P35556, O00755, O43248, O15178, Q07687, P50148, O95947, Q02297, P06213, Q15319, P02452, O43763, O14511, Q12824, Q14190

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GOID GO:0035270

TERM endocrine system development

P-VALUE 2.99389994486114e-08
CORRECTED P-VALUE 8.37992594566632e-05

NUM_ANNOTATIONS 25 (of 70)

ANNOTATED_GENES Q9Y261, Q02643, P51843, Q06710, P14416, P46109, Q14469, P31249, O75603, P52945, P23769, P08151, O43435, O95948, O75360, P21359, P15863, P14651, O00358, Q13370, P36897, P10070, Q13285, Q9UBC0, P01286

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GOID GO:0030182

TERM neuron differentiation

P-VALUE 4.52450265727216e-08
CORRECTED P-VALUE 0.000126640829377048

NUM_ANNOTATIONS 88 (of 456)

ANNOTATED_GENES Q9Y261, O95754, Q02962, O95185, Q9H2A3, P14138, O94788, O95631, P53667, Q14469, P23769, Q15835, O43186, O75093, Q13972, Q16518, P36897, P43146, Q15465, O00468, P11831, O00238, P31249, P28370, P10071, O95948, Q12955, Q01726, P47928, P32238, Q99453, O14813, Q12837, P49335, P10070, P32297, P10588, O43711, Q13214, Q15784, O60663, P18075, P98172, O14514, O60890, Q9UBY8, P21728, Q9H2C1, Q16650, P31273, P61812,

Q8IYT8, P48431, P02649, P41743, P54845, P56178, A0PK02, O00555, P78504, O15522, Q15078, O14786, O00634, Q13402, P14416, Q13485, P49640, P17677, P04628, P62988, P28358, O75094, P50553, Q12791, O60609, P17787, A1A4U0, O00755, O60462, Q15768, Q07687, P50148, P19622, Q99835, Q15319, O43763, O94887

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GOID GO:0009893

TERM positive regulation of metabolic process

P-VALUE 4.79838390275075e-08

CORRECTED P-VALUE 0.000134306765437993

NUM_ANNOTATIONS 131 (of 762)

ANNOTATED_GENES Q15306, P23497, Q02962, Q06710, P09544, P01730, Q9BZS1, P51668, Q9H2X6, Q04864, Q15835, Q8WYB5, P10827, P15248, O43186, P36897, Q13285, Q15465, P28908, Q14623, Q6VMQ6, P10747, P15923, Q9UK05, Q9H160, P08700, P28370, P22736, O14497, P52945, O95948, Q07912, O15085, P01588, Q12837, P14921, Q9Y463, P20809, P21728, Q16650, P61812, Q13950, O95477, P33681, P48431, P02649, O94776, Q9UJU5, P04085, Q05586, P84022, P40425, Q16552, O60248, Q99958, Q13485, P49640, Q9Y2Y8, P28358, Q9BRP0, P61296, P13631, P50553, Q9HBE4, O15178, O76054, P15514, P19419, P06213, O15516, P41235, P18428, Q9Y261, Q6UUUV9, Q9H2A3, O15350, Q9H161, Q12951, P16150, P23769, O00358, Q3ZCU4, O96004, Q96GM5, O00468, P11831, Q9Y294, Q01196, P01127, P26441, Q9UIH9, Q09161, O00233, P28069, P10070, Q9NP71, P01286, Q9BXL6, P56693, P16234, Q92481, Q02643, P18075, Q13501, P08588, P05113, Q9UMN6, P50052, P08151, O75360, P54845, Q6NT51, P15863, P55347, P20823, Q9H7Z6, P24385, P04628, Q06945, O75593, O75928, Q5T230, P62988, P35368, Q9H3D4, Q5VVIO, P63241, O60244, P35680, Q07687, P22301

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GOID GO:0007190

TERM activation of adenylate cyclase activity

P-VALUE 5.0307239829838e-08

CORRECTED P-VALUE 0.000140809964283717

NUM_ANNOTATIONS 13 (of 22)

ANNOTATED_GENES P43220, Q02643, P10323, Q96G91, P21728, P33765, P13945, P08588, P18509, P21918, P01286, P34998, P48546

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GOID GO:0009628

TERM response to abiotic stimulus

P-VALUE 8.61948951281715e-08
CORRECTED P-VALUE 0.000241259511463752
NUM_ANNOTATIONS 69 (of 334)
ANNOTATED_GENES Q9BXM0, P35913, P55273, Q9NYL2, O60906, P19087,
P25103, Q13507, Q9UGM1, Q15835, Q9HBY0, Q13426, P98161, Q13224, P53805,
P49585, P16989, Q2T9G2, P25189, O00294, Q9Y253, O75161, P02489, P47901,
Q01064, O60840, A0PJA9, P41181, Q15849, O43636, P51671, P52701, P35243,
Q01726, P78363, P56373, P08100, O15259, P10588, P47804, P41238, O60921,
P03999, P21728, P08588, P11488, P21359, P48431, O60721, Q05586, P15289,
O75762, Q12879, P01374, P55211, P24385, P14416, O95073, P20941, P35368,
Q86UA6, P43080, Q12791, P17787, P37288, O15229, O75144, P02452, O15516

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GOID GO:0051254

TERM positive regulation of RNA metabolic process

P-VALUE 1.02134197589707e-07

CORRECTED P-VALUE 0.00028587361905359

NUM_ANNOTATIONS 88 (of 464)

ANNOTATED_GENES P41235, P23497, Q9Y261, Q02962, O15350, Q9H2A3,
Q6UUV9, Q06710, Q9H161, Q12951, Q9H2X6, Q04864, P23769, P10827, O43186,
O00358, Q3ZCU4, O96004, Q13285, Q15465, Q96GM5, Q14623, O00468,
Q6VMQ6, P11831, P15923, Q9Y294, Q01196, P28370, P22736, O14497, Q9UIH9,
Q09161, P52945, O95948, P28069, O15085, P01588, Q12837, P14921, Q9Y463,
P10070, Q9NP71, P56693, Q92481, P18075, P20809, Q13501, Q9UMN6, Q16650,
P08151, Q13950, O75360, O94776, P48431, P54845, P15863, Q9UJU5, Q6NT51,
P84022, Q05586, P55347, P40425, Q16552, P20823, O60248, Q99958, Q13485,
P49640, P04628, Q06945, O75928, O75593, P28358, Q5T230, Q9BRP0, Q9H3D4,
P61296, P13631, P50553, Q5VVI0, O15178, O60244, O76054, Q07687, P19419,
P35680, O15516

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GOID GO:0010604

TERM +positive regulation of macromolecule metabolic process

P-VALUE 1.14575132557947e-07

CORRECTED P-VALUE 0.000320695796029692

NUM_ANNOTATIONS 124 (of 722)

ANNOTATED_GENES P41235, Q15306, P23497, Q9Y261, Q02962, O15350,
Q9H2A3, Q6UUV9, Q06710, Q9H161, Q12951, P09544, P01730, P16150, Q9BZS1,
P51668, Q9H2X6, Q04864, P23769, Q8WYB5, P10827, P15248, O43186, O00358,
Q3ZCU4, O96004, P36897, Q13285, Q15465, Q96GM5, P28908, Q14623, O00468,

Q6VMQ6, P10747, P11831, P15923, Q9Y294, Q9UK05, P01127, Q01196, Q9H160, P08700, P28370, P22736, P26441, O14497, Q9UIH9, Q09161, P52945, O95948, Q07912, O00233, P28069, O15085, P01588, Q12837, P14921, Q9Y463, P10070, Q9NP71, P01286, Q9BXL6, P16234, P56693, Q92481, P18075, P20809, Q13501, Q9UMN6, P05113, Q16650, P08151, P61812, Q13950, O75360, P33681, P48431, P02649, O94776, P54845, P15863, Q6NT51, Q9UJU5, P04085, Q05586, P84022, P55347, P40425, Q9H7Z6, P20823, Q16552, O60248, P24385, Q99958, Q13485, P49640, P04628, Q06945, Q9Y2Y8, O75928, O75593, P62988, P28358, Q5T230, P35368, Q9H3D4, Q9BRP0, P61296, P13631, P50553, Q9HBE4, P63241, Q5VVIO, O15178, O60244, O76054, P15514, Q07687, P19419, P35680, P22301, P06213, O15516

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GOID GO:0010604 + macromolecule metabolic process

TERM positive regulation of macromolecule metabolic process

P-VALUE 1.14575132557947e-07

CORRECTED P-VALUE 0.000320695796029692

NUM_ANNOTATIONS 124 (of 722)

ANNOTATED_GENES P41235, Q15306, P23497, Q9Y261, Q02962, O15350, Q9H2A3, Q6UUV9, Q06710, Q9H161, Q12951, P09544, P01730, P16150, Q9BZS1, P51668, Q9H2X6, Q04864, P23769, Q8WYB5, P10827, P15248, O43186, O00358, Q3ZCU4, O96004, P36897, Q13285, Q15465, Q96GM5, P28908, Q14623, O00468, Q6VMQ6, P10747, P11831, P15923, Q9Y294, Q9UK05, P01127, Q01196, Q9H160, P08700, P28370, P22736, P26441, O14497, Q9UIH9, Q09161, P52945, O95948, Q07912, O00233, P28069, O15085, P01588, Q12837, P14921, Q9Y463, P10070, Q9NP71, P01286, Q9BXL6, P16234, P56693, Q92481, P18075, P20809, Q13501, Q9UMN6, P05113, Q16650, P08151, P61812, Q13950, O75360, P33681, P48431, P02649, O94776, P54845, P15863, Q6NT51, Q9UJU5, P04085, Q05586, P84022, P55347, P40425, Q9H7Z6, P20823, Q16552, O60248, P24385, Q99958, Q13485, P49640, P04628, Q06945, Q9Y2Y8, O75928, O75593, P62988, P28358, Q5T230, P35368, Q9H3D4, Q9BRP0, P61296, P13631, P50553, Q9HBE4, P63241, Q5VVIO, O15178, O60244, O76054, P15514, Q07687, P19419, P35680, P22301, P06213, O15516

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GOID GO:0031325

TERM positive regulation of cellular metabolic process

P-VALUE 1.27167880080775e-07

CORRECTED P-VALUE 0.000355942896346089

NUM_ANNOTATIONS 126 (of 738)

ANNOTATED_GENES P41235, Q15306, P23497, Q9Y261, Q02962, O15350, Q9H2A3, Q6UUV9, Q06710, Q9H161, Q12951, P09544, P01730, P16150, Q9BZS1, P51668, Q9H2X6, Q04864, P23769, Q15835, Q8WYB5, P10827, P15248, O43186, O00358, Q3ZCU4, O96004, Q13285, Q15465, Q96GM5, P28908, Q14623, O00468, Q6VMQ6, P10747, P11831, P15923, Q9Y294, Q9UK05, P01127, Q01196, Q9H160, P08700, P28370, P22736, P26441, O14497, Q9UIH9, Q09161, P52945, O95948, Q07912, O00233, P28069, O15085, P01588, Q12837, P14921, Q9Y463, P10070, Q9NP71, P01286, Q9BXL6, P16234, P56693, Q92481, P18075, Q02643, P20809, P21728, Q13501, Q9UMN6, P05113, Q16650, P50052, P08151, Q13950, O75360, O95477, P33681, P48431, P02649, O94776, P54845, P15863, Q6NT51, Q9UJU5, P04085, Q05586, P84022, P55347, P40425, Q9H7Z6, P20823, Q16552, O60248, P24385, Q99958, Q13485, P49640, P04628, Q06945, Q9Y2Y8, O75928, O75593, P62988, P28358, Q5T230, P35368, Q9H3D4, Q9BRP0, P61296, P13631, P50553, Q9HBE4, P63241, Q5VVI0, O15178, O60244, O76054, P15514, Q07687, P19419, P35680, P06213, O15516

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GOID GO:0050906

TERM detection of stimulus involved in sensory perception

P-VALUE 1.28822315634524e-07

CORRECTED P-VALUE 0.000360573661461032

NUM_ANNOTATIONS 23 (of 65)

ANNOTATED_GENES P47804, Q9NYV7, P35913, O60840, P19087, P03999, O14829, P20941, Q13507, Q9NYV8, O43636, Q9UGM1, P43080, P11488, Q15835, P35243, P78363, P48431, Q13224, P08100, O14830, P10588, O00294

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GOID GO:0007215

TERM glutamate signaling pathway

P-VALUE 1.42451065743724e-07

CORRECTED P-VALUE 0.000398720533016684

NUM_ANNOTATIONS 14 (of 27)

ANNOTATED_GENES Q13003, Q13002, Q16099, Q13224, Q05586, P48058, P50148, O43424, P41594, P42263, P30872, Q15078, Q12879, P39086

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GOID GO:0045893

TERM positive regulation of transcription, DNA-dependent

P-VALUE 1.50743603187942e-07

CORRECTED P-VALUE 0.00042193134532305

NUM_ANNOTATIONS 87 (of 461)

ANNOTATED_GENES P41235, P23497, Q9Y261, Q02962, O15350, Q9H2A3, Q6UUV9, Q06710, Q9H161, Q12951, Q9H2X6, Q04864, P23769, P10827, O43186, O00358, Q3ZCU4, O96004, Q13285, Q15465, Q96GM5, Q14623, O00468, Q6VMQ6, P11831, P15923, Q9Y294, Q01196, P28370, P22736, O14497, Q9UIH9, P52945, O95948, P28069, O15085, P01588, Q12837, P14921, Q9Y463, P10070, Q9NP71, P56693, Q92481, P18075, P20809, Q13501, Q9UMN6, Q16650, P08151, Q13950, O75360, O94776, P48431, P54845, P15863, Q9UJU5, Q6NT51, P84022, Q05586, P55347, P40425, Q16552, P20823, O60248, Q99958, Q13485, P49640, P04628, Q06945, O75928, O75593, P28358, Q5T230, Q9BRP0, Q9H3D4, P61296, P13631, P50553, Q5VVI0, O15178, O60244, O76054, Q07687, P19419, P35680, O15516

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GOID GO:0009605

TERM response to external stimulus

P-VALUE 1.80935195679642e-07

CORRECTED P-VALUE 0.000506437612707319

NUM_ANNOTATIONS 151 (of 929)

ANNOTATED_GENES Q9BXM0, P01563, P27169, O60906, Q9NPF7, P30872, Q15835, Q9HBY0, P15248, P15291, P46094, P48740, P98161, P53805, P08910, P21980, P02741, Q2T9G2, P41970, Q15465, O00294, Q16568, P80098, P00748, Q9UHA7, O15553, P30542, Q16719, O15399, P32238, P25942, P18510, P03952, P06681, P08100, P10588, P21781, P47804, O43196, P20809, P21728, P03999, Q03181, P33765, P11488, P61812, P21359, P47992, P48431, P02649, P20800, P23946, P35225, P04085, P15289, Q02763, P22466, Q16552, P01374, O60248, P09917, P14416, Q15166, P09848, P11226, Q9HCN6, P49842, P13631, P43080, P49682, Q12791, Q15150, P04839, P22891, P49815, P49356, O00590, P50148, Q02297, P05106, P08697, P02452, O95866, P23415, P41235, P18428, Q9Y5Y4, Q9Y261, P14138, P05160, P35913, P55273, P16150, P25103, P19087, Q13507, P52848, Q9UGM1, P10276, P40197, P42830, P02768, Q13224, P00751, P25189, O00175, P47871, P11831, P01009, P51685, O60840, P02753, O77932, O00187, O00238, P01127, P01222, O43636, P51671, P35243, P14770, P78363, P05111, P02748, Q6P4R8, P01286, P47900, P07359, P35542, P05113, P51679, P01031, P20908, P03951, P46092, P17927, O00555, P48546, Q12879, O95445, P30874, Q96RI0, P17677, P20941, O00254, Q13393, P37288, Q8NCG5, P22301, P26927, O15467

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GOID GO:0010628

TERM +positive regulation of gene expression

P-VALUE 1.94319232660652e-07
CORRECTED P-VALUE 0.000543899532217165
NUM_ANNOTATIONS 99 (of 548)
ANNOTATED_GENES P41235, Q15306, P23497, Q9Y261, Q02962, O15350, Q9H2A3, Q6UUV9, Q06710, Q9H161, Q12951, Q9BZS1, Q9H2X6, Q04864, P23769, Q8WYB5, P10827, O43186, O00358, Q3ZCU4, O96004, P36897, Q13285, Q15465, Q96GM5, Q14623, O00468, Q6VMQ6, P11831, P15923, Q9Y294, Q9UK05, Q01196, Q9H160, P08700, P28370, P22736, O14497, Q9UIH9, P52945, O95948, O00233, P28069, O15085, P01588, Q12837, P14921, Q9Y463, P10070, Q9NP71, P01286, P56693, Q92481, P18075, P20809, Q13501, Q9UMN6, Q16650, P08151, Q13950, O75360, P33681, P48431, O94776, P54845, P15863, Q9UJU5, Q6NT51, P84022, Q05586, P55347, P40425, Q9H7Z6, Q16552, P20823, O60248, Q99958, Q13485, P49640, P04628, Q06945, O75928, O75593, P28358, Q5T230, P62988, Q9BRP0, Q9H3D4, P61296, P13631, P50553, Q5VVI0, O15178, O60244, O76054, Q07687, P19419, P35680, O15516

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GOID GO:0010628 + gene expression
TERM positive regulation of gene expression
P-VALUE 1.94319232660652e-07

CORRECTED P-VALUE 0.000543899532217165
NUM_ANNOTATIONS 99 (of 548)
ANNOTATED_GENES P41235, Q15306, P23497, Q9Y261, Q02962, O15350, Q9H2A3, Q6UUV9, Q06710, Q9H161, Q12951, Q9BZS1, Q9H2X6, Q04864, P23769, Q8WYB5, P10827, O43186, O00358, Q3ZCU4, O96004, P36897, Q13285, Q15465, Q96GM5, Q14623, O00468, Q6VMQ6, P11831, P15923, Q9Y294, Q9UK05, Q01196, Q9H160, P08700, P28370, P22736, O14497, Q9UIH9, P52945, O95948, O00233, P28069, O15085, P01588, Q12837, P14921, Q9Y463, P10070, Q9NP71, P01286, P56693, Q92481, P18075, P20809, Q13501, Q9UMN6, Q16650, P08151, Q13950, O75360, P33681, P48431, O94776, P54845, P15863, Q9UJU5, Q6NT51, P84022, Q05586, P55347, P40425, Q9H7Z6, Q16552, P20823, O60248, Q99958, Q13485, P49640, P04628, Q06945, O75928, O75593, P28358, Q5T230, P62988, Q9BRP0, Q9H3D4, P61296, P13631, P50553, Q5VVI0, O15178, O60244, O76054, Q07687, P19419, P35680, O15516

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GOID GO:0048732
TERM gland development
P-VALUE 2.88665898522429e-07
CORRECTED P-VALUE 0.00080797584996428

NUM_ANNOTATIONS 33 (of 120)

ANNOTATED_GENES P18075, Q02643, Q06710, Q14469, P06401, P23769, P08151, P61812, O43435, O75360, P21359, P15291, P15863, P14651, O00358, Q3ZCU4, P36897, Q13285, Q15465, Q92838, P51843, P14416, P46109, P31249, P10071, O75603, P17482, O15296, Q02297, P10070, P01286, Q68DL5, Q99801

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GOID GO:0045941

TERM positive regulation of transcription

P-VALUE 3.08298736650648e-07

CORRECTED P-VALUE 0.000862928163885165

NUM_ANNOTATIONS 97 (of 539)

ANNOTATED_GENES P41235, Q15306, P23497, Q9Y261, Q02962, O15350, Q9H2A3, Q6UUV9, Q06710, Q9H161, Q12951, Q9BZS1, Q9H2X6, Q04864, P23769, Q8WYB5, P10827, O43186, O00358, Q3ZCU4, O96004, Q13285, Q15465, Q96GM5, Q14623, O00468, Q6VMQ6, P11831, P15923, Q9Y294, Q9UK05, Q01196, Q9H160, P28370, P22736, O14497, Q9UIH9, P52945, O95948, O00233, P28069, O15085, P01588, Q12837, P14921, Q9Y463, P10070, Q9NP71, P01286, P56693, Q92481, P18075, P20809, Q13501, Q9UMN6, Q16650, P08151, Q13950, O75360, P33681, P48431, O94776, P54845, P15863, Q9UJU5, Q6NT51, P84022, Q05586, P55347, P40425, Q9H7Z6, Q16552, P20823, O60248, Q99958, Q13485, P49640, P04628, Q06945, O75928, O75593, P28358, Q5T230, P62988, Q9BRP0, Q9H3D4, P61296, P13631, P50553, Q5VVI0, O15178, O60244, O76054, Q07687, P19419, P35680, O15516

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GOID GO:0010646

TERM ®ulation of cell communication

P-VALUE 4.25422543489038e-07

CORRECTED P-VALUE 0.00119075769922582

NUM_ANNOTATIONS 130 (of 784)

ANNOTATED_GENES Q14164, O15524, P01730, Q9H2X6, Q04864, Q15835, O43324, P49796, P18545, Q9ULV8, P21980, P36897, P25054, P00797, Q16568, Q14623, Q8WUA7, P08700, A0JNU9, O95948, Q99750, P49802, P25942, O43734, P01588, O94810, P28223, P53708, Q9Y2I9, O14544, Q13191, Q13003, P20809, O95813, P21728, O75787, Q03181, O14924, P61812, Q13950, P21359, P33681, P02649, P49758, P84022, O75916, P78504, O75829, P24043, P01374, P51843, P14416, Q13485, Q9UBT3, Q6GQQ9, P50553, P49815, P17787, P01135, P23415, P49918, P18428, Q9Y5Y4, O14543, P14138, Q15628, Q68CZ1, Q6ZW31, Q9HAV5, P25098, O43147, Q13002, Q04724, O60447, Q13224, O95759, Q13972, Q08116,

Q3ZCU4, P41594, P35221, Q13956, P02753, O15519, P50150, P26441, Q9H0K1, P05111, O95081, O00233, P52594, P56373, Q13635, Q9H2H0, P13945, Q4KMP7, P36896, P01286, Q6ZT07, Q9HC96, Q02643, Q04721, P62942, P35240, P27037, P34947, Q13705, P50052, P08151, O76093, Q99490, O00555, Q07889, O15492, P28335, Q9UBU2, Q9P212, Q12879, P53041, P02760, Q06945, P62988, Q9H3D4, P32298, O14939, O60262, P48023, Q15057, Q16478, Q9UBC0

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GOID GO:0010646 & cell communication

TERM regulation of cell communication

P-VALUE 4.25422543489038e-07

CORRECTED P-VALUE 0.00119075769922582

NUM_ANNOTATIONS 130 (of 784)

ANNOTATED_GENES Q14164, O15524, P01730, Q9H2X6, Q04864, Q15835, O43324, P49796, P18545, Q9ULV8, P21980, P36897, P25054, P00797, Q16568, Q14623, Q8WUA7, P08700, A0JNU9, O95948, Q99750, P49802, P25942, O43734, P01588, O94810, P28223, P53708, Q9Y2I9, O14544, Q13191, Q13003, P20809, O95813, P21728, O75787, Q03181, O14924, P61812, Q13950, P21359, P33681, P02649, P49758, P84022, O75916, P78504, O75829, P24043, P01374, P51843, P14416, Q13485, Q9UBT3, Q6GQQ9, P50553, P49815, P17787, P01135, P23415, P49918, P18428, Q9Y5Y4, O14543, P14138, Q15628, Q68CZ1, Q6ZW31, Q9HAV5, P25098, O43147, Q13002, Q04724, O60447, Q13224, O95759, Q13972, Q08116, Q3ZCU4, P41594, P35221, Q13956, P02753, O15519, P50150, P26441, Q9H0K1, P05111, O95081, O00233, P52594, P56373, Q13635, Q9H2H0, P13945, Q4KMP7, P36896, P01286, Q6ZT07, Q9HC96, Q02643, Q04721, P62942, P35240, P27037, P34947, Q13705, P50052, P08151, O76093, Q99490, O00555, Q07889, O15492, P28335, Q9UBU2, Q9P212, Q12879, P53041, P02760, Q06945, P62988, Q9H3D4, P32298, O14939, O60262, P48023, Q15057, Q16478, Q9UBC0

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GOID GO:0051094

TERM positive regulation of developmental process

P-VALUE 4.40569342973468e-07

CORRECTED P-VALUE 0.00123315359098274

NUM_ANNOTATIONS 102 (of 579)

ANNOTATED_GENES P32745, P01563, Q9Y261, O14543, O15350, Q96IZ0, Q13188, Q13114, P42771, O95631, P32971, P53667, O00203, Q15628, Q9NYL2, P16150, P61247, Q12981, Q9H2X6, O00198, P10276, P23769, Q01955, Q9UEE5, Q13002, O43324, O43186, P01574, Q9H3Q1, P21980, P36897, P43146, P25054, Q15465, Q9UHD0, P28908, Q14623, P11831, Q01196, O00238, P31249, O15519,

Q9UL32, P22736, P00709, P30542, P52701, P05111, P02748, Q99453, P14921, P10828, P36896, Q9HC96, P18075, Q04721, P27037, P62753, P56706, Q03181, O76036, Q13705, P50052, O14788, P61812, Q13950, P15151, P21359, P33681, P02649, P50570, Q15762, Q07011, P56178, P84022, A0PK02, P98088, O14727, P78504, P22466, Q15078, P01374, O75340, Q02779, Q02156, P60953, P55211, Q96PG8, Q06945, Q6UY14, Q9H3D4, P13631, Q12791, Q9HBE4, O15304, A1A4U0, P63241, O00755, O15296, Q02297, P06213, P32970

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GOID GO:0009888

TERM tissue development

P-VALUE 4.67222162440712e-07

CORRECTED P-VALUE 0.00130775483267155

NUM_ANNOTATIONS 79 (of 417)

ANNOTATED_GENES Q08188, Q9Y261, P09017, Q01534, P13942, Q15628, O60882, Q9NRC9, P05549, O15353, Q9HAV5, P32856, P10827, Q14532, P98161, O00358, P02818, Q3ZCU4, O96004, Q13285, Q15465, Q92838, P16615, Q14623, Q13753, O00238, P31249, P10767, P34820, P08842, P13497, Q12870, P19235, P10828, Q68DL5, P36896, P21781, P18075, P27037, Q9GZV9, Q03181, Q9C019, Q13705, P20908, P08151, P61812, P22003, Q13950, P25391, P12645, O76093, Q6NT51, P14651, O14753, O75829, O60248, Q03431, Q99958, P17677, O75593, O95450, P08620, P35527, P56703, O15156, O43248, O00755, O15178, Q03052, P21246, O95390, O95947, Q07687, Q92786, O43763, P02452, Q9UBC0, Q9UKW6, O95863

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GOID GO:0048699

TERM generation of neurons

P-VALUE 4.99235746805313e-07

CORRECTED P-VALUE 0.00139736085530807

NUM_ANNOTATIONS 93 (of 516)

ANNOTATED_GENES Q9Y261, O95754, Q02962, O95185, Q9H2A3, P14138, O94788, O95631, P53667, P09544, Q14469, P23769, Q15835, O43186, O75093, Q13972, Q16518, P36897, P43146, Q15465, P35221, O00468, P11831, O00238, P31249, P28370, P10071, O95948, Q12955, Q01726, P47928, P32238, Q99453, O14813, Q12837, P49335, P10070, P32297, P10588, O43711, Q13214, Q15784, O60663, P18075, P98172, O14514, O60890, Q9UBY8, P21728, Q9H2C1, P51679, Q16650, P31273, P61812, P21359, Q8IYT8, P48431, P02649, P41743, P54845, P56178, A0PK02, O00555, P78504, O15522, Q15078, O14786, O00634, Q13402, P14416, Q13485, P49640, P17677, P04628, P62988, P28358, O75094, P50553,

Q12791, O60609, P17787, A1A4U0, O00755, O60462, Q15768, Q07687, P50148, P19622, O00144, Q99835, Q15319, O43763, O94887

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GOID GO:0048468

TERM cell development

P-VALUE 6.22880166483044e-07

CORRECTED P-VALUE 0.00174344158598604

NUM_ANNOTATIONS 137 (of 842)

ANNOTATED_GENES Q02962, O95631, P53667, P09544, Q14469, Q15835, O43186, P15291, P36897, P25054, Q15465, Q9Y236, Q14623, P10767, P28370, P10071, O95948, P32238, Q99453, P01588, Q12837, Q9Y463, P10588, Q13214, Q15784, O60663, P98172, O14514, Q9Y698, P21728, P06401, Q16650, P61812, Q13950, P21359, P48431, P02649, A0PK02, P78504, O43184, Q08289, Q13467, O15522, Q9NS25, O15146, O60248, P14416, Q13485, P49640, P28358, O75602, Q9BRP0, P61296, P50553, Q12791, Q9HBE4, O60609, P17787, A1A4U0, O00755, O95390, O60462, Q03052, Q15768, Q13461, P50148, P19622, Q02297, Q9Y261, Q9UHL0, O95185, O95754, P14138, Q9H2A3, O94788, P23769, O75093, Q13972, Q3ZCU4, Q16518, P43146, P35221, O00468, P11831, P31249, O00238, P05556, Q8N196, Q01726, Q12955, P47928, O14813, Q5UIP0, P49335, P10070, P32297, O43711, P56693, Q02643, P18075, O60890, Q04721, P35240, Q9UBY8, Q9H2C1, P51679, P31273, Q8IYT8, P41743, P54845, O76093, Q6NT51, O00555, P56178, Q00597, Q16254, Q15078, Q12879, Q03431, O14786, O00634, Q13402, P04628, P17677, O60383, P62988, P08620, O75094, P15382, Q07687, O00144, O95259, Q15319, Q99835, O43763, O94887, Q9UBC0

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GOID GO:0065008

TERM regulation of biological quality

P-VALUE 7.04888496178582e-07

CORRECTED P-VALUE 0.00197298290080385

NUM_ANNOTATIONS 249 (of 1720)

ANNOTATED_GENES Q9BXM0, Q9Y6N9, O15524, O15079, P42771, P01258, P09544, P23582, Q9BZS1, Q9HBY0, Q9Y2B4, P46094, Q9NPA1, Q8NFM1, P21980, P02818, Q9UKY0, O14773, P36897, Q13285, P30988, P25054, Q15465, P51582, P00797, Q16568, Q05329, P43220, P80098, P22607, P17509, P00748, P47901, Q9Y2G8, P43681, Q9UK05, O00222, Q01082, O94864, O76003, Q9H160, P52945, Q9NZ71, O14746, P31213, Q99750, P32238, P25942, P41146, O76041, P01588, P03952, O15085, Q04844, P14921, Q6W4X9, Q9BS26, P28223, P19235, P15313, O14544, P05067, P12821, P17542, A2NWD3, Q13003, O43731, P01225, Q92506,

P20809, Q9Y698, Q9GZV9, Q13813, P21728, O75787, Q03181, P30041, P35670, O14788, P61812, P21359, P47992, P15311, O95477, P48431, P02649, O95461, Q13087, P20800, P04085, Q05586, P84022, P41180, P22466, O15146, P01130, O95835, Q86W47, P47775, Q13485, P14416, P13569, P55157, Q9HCN6, P13631, P06744, P49682, Q12791, Q15150, P22891, Q86YL7, P17787, O00755, P52907, Q03052, P50148, O00115, P05106, P06213, P23415, P41235, Q9NPB6, P46952, O14604, Q13177, Q9Y261, O14543, O75508, O15350, P14138, O94788, P05160, P55273, P55073, P21918, Q9Y566, P40197, P62736, P25098, P04278, P02768, O60312, Q13224, Q30201, P31645, O00358, Q9H3Q1, P47989, O75445, P25189, O43603, P61106, Q9Y691, P04180, P47871, O00468, O00329, P11831, P01009, P49959, P51685, P02753, P01127, P50150, P16520, O43636, P51671, O60344, P14770, P05111, P11473, P78363, P02748, O00233, Q86US8, Q5UIP0, P00439, P21802, Q13370, Q9NP71, P32297, P01286, P36896, O95389, P46597, O00482, P06727, P07359, P47900, Q9HC96, P19099, Q02643, Q04721, Q9UBY8, O95271, Q02505, P62753, P27037, Q9UP95, Q14940, P47756, Q9H0E9, P08588, P51679, P50052, Q9NP58, P03951, P46092, O00555, P09327, Q00597, P47944, Q9Y210, P55347, Q5Bjf2, P28335, Q16254, Q9P212, P20823, Q12879, P30048, O75366, Q03431, P14672, Q96RI0, P17677, O43704, O60383, P62263, P25100, Q16206, P62988, P08620, P35368, Q9H3D4, O14994, O75603, P35251, O00254, P32245, P57727, Q9UKL4, P37288, Q16478, P32247, P22301, P26927, Q9NRC6, P17516

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GOID GO:0008277

TERM regulation of G-protein coupled receptor protein signaling pathway

P-VALUE 7.6849764065965e-07

CORRECTED P-VALUE 0.00215102489620636

NUM_ANNOTATIONS 18 (of 47)

ANNOTATED_GENES Q9Y5Y4, Q13956, P50150, O14924, P34947, P32298, Q15835, O14939, O60262, P25098, P49802, P49796, P49758, P18545, O94810, O75916, O15492, Q9P212

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GOID GO:0009416

TERM response to light stimulus

P-VALUE 7.70187522388033e-07

CORRECTED P-VALUE 0.0021557548751641

NUM_ANNOTATIONS 37 (of 148)

ANNOTATED_GENES P47804, P35913, O60921, P55273, P21728, P19087, P03999, Q13507, P11488, Q15835, P21359, Q05586, O60721, Q12879, O00294, Q9Y253, O75161, P24385, P55211, P14416, Q01064, O60840, P20941, P35368,

A0PJA9, Q86UA6, O43636, P43080, P35243, Q01726, P52701, P78363, P17787,
P08100, O15259, O15516, P10588

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GOID GO:0003013

TERM circulatory system process

P-VALUE 8.67539795493283e-07

CORRECTED P-VALUE 0.0024282438875857

NUM_ANNOTATIONS 53 (of 248)

ANNOTATED_GENES P19099, P50391, P42898, P14138, P09544, O75787,
P23582, P08588, P33765, P50052, P61812, Q01955, P62736, P10827, P25098, P02649,
Q02446, P20800, P08519, Q16635, O95759, P53805, P28335, Q16254, Q9NZM1,
Q9UJ96, P00797, Q16568, P43220, Q14500, Q9Y691, P17661, P47871, Q86W47,
P14416, P47901, P08172, P13569, Q07955, P25100, Q9Y3Q4, P35368, P50222,
P16520, Q12791, P01588, P52564, P37288, P34969, P28223, P32247, P15382, P12821

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GOID GO:0008015

TERM blood circulation

P-VALUE 8.67539795493283e-07

CORRECTED P-VALUE 0.0024282438875857

NUM_ANNOTATIONS 53 (of 248)

ANNOTATED_GENES P19099, P50391, P42898, P14138, P09544, O75787,
P23582, P08588, P33765, P50052, P61812, Q01955, P62736, P10827, P25098, P02649,
Q02446, P20800, P08519, Q16635, O95759, P53805, P28335, Q16254, Q9NZM1,
Q9UJ96, P00797, Q16568, P43220, Q14500, Q9Y691, P17661, P47871, Q86W47,
P14416, P47901, P08172, P13569, Q07955, P25100, Q9Y3Q4, P35368, P50222,
P16520, Q12791, P01588, P52564, P37288, P34969, P28223, P32247, P15382, P12821

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GOID GO:0007186

TERM G-protein coupled receptor protein signaling pathway

P-VALUE 9.23941230646285e-07

CORRECTED P-VALUE 0.00258611150457895

NUM_ANNOTATIONS 250 (of 1734)

ANNOTATED_GENES P50391, P30550, P22888, O15130, P01258, Q14416,
Q00722, P32302, Q8N6U8, Q9NYV8, Q9NYW3, P30872, Q9BZC5, P47898,
Q15835, O95918, P49796, P12872, P46094, P18545, P98161, P52824, P63211,
P46091, Q96G91, P30939, P21980, O43614, Q9Y585, P30988, Q15077, P51582,
Q8WU20, Q16568, P43220, P21731, Q9GZP7, P47901, P08172, Q5UAW9, O00222,

Q8WXV1, Q6NTB5, O95157, P35372, P30542, Q9UGF7, Q9H255, P49802, P32238, P48169, P30989, P41146, O15085, O43193, O94810, P34969, P28223, P29371, P08173, Q15613, P08100, Q13258, P47804, O95264, O14843, P34981, O14514, Q9NYV7, P46093, P21728, P03999, P50406, P33765, O14804, O76002, O14924, Q9NS67, P34998, P28336, P11488, O00155, O95477, P41586, O60755, P02649, Q9Y3N9, O95800, P49758, O43194, O00253, O75388, Q9HCQ7, O43898, Q13639, O75916, P41180, Q13467, P60893, P34995, P21452, P22466, P49146, O14581, P47775, P14416, P58173, P47881, O60726, Q15761, O43749, P28476, Q9NYW1, P49682, O43789, Q13324, P08912, P10082, P34903, P47890, A1L156, P49286, O00590, Q14CE0, P15514, P50148, P06213, P28222, P23415, P32745, Q9Y5Y4, P58182, P23945, O60404, Q9UKL2, P25103, P19087, P47887, P21918, Q9NTG1, P25098, Q01362, O60403, Q08116, Q13607, Q9HB89, P41594, O43612, O43603, Q9NYV9, O76099, P47871, O00468, P46089, Q14968, P51685, Q13956, O00325, Q5IFH6, P09471, P01222, P50150, P16520, Q15618, O43192, Q13255, Q01726, P49685, Q9NZD1, P31391, Q99928, O00230, A4QMS5, O43613, P21554, P13945, Q06481, P25021, P41145, Q96R84, P01286, P47900, P34982, Q02643, P33032, Q9P1P5, O95838, P47211, O43813, Q9NS66, Q7Z4W6, P08588, P35348, P51679, P01031, P34947, O95136, O95158, Q14831, P50052, P47872, P41587, P47870, Q9NYW0, P48039, P46092, O00555, O15492, P28335, Q9NYW6, Q9P212, Q15078, P48546, Q01718, O95672, P30874, Q03431, P28221, P08949, Q96RI0, O60883, P17677, P30968, P25100, Q99061, P31644, P20941, P35368, O60242, P32298, Q99677, P04201, P23416, Q9NQN1, O60262, O00574, P34972, O14939, O00254, P32245, Q6NV75, P28566, Q13606, P41143, P37288, P32247, O00144, P41968, Q99835, O95222

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GOID GO:0045165

TERM cell fate commitment

P-VALUE 9.28677299079681e-07

CORRECTED P-VALUE 0.00259936776012403

NUM_ANNOTATIONS 38 (of 155)

ANNOTATED_GENES Q9Y261, Q02962, Q9H2A3, Q04721, Q14469, Q9C019, P23769, Q13950, P48431, P78504, P36897, Q15465, P55895, Q13485, P49640, P17677, P04628, P15923, Q14318, P28358, P31270, P05556, P11487, P10071, P50553, O95948, P56703, Q14DW8, Q15303, O43248, O95947, Q07687, P10070, P78424, Q92786, Q9UBC0, P17542, O43711

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GOID GO:0007631

TERM feeding behavior

P-VALUE 9.79718327575538e-07
CORRECTED P-VALUE 0.00274223159888393
NUM_ANNOTATIONS 20 (of 57)
ANNOTATED_GENES P50391, P21728, Q14831, Q12870, P32245, O60755,
P17787, P32238, P42127, P10082, O00253, Q13224, O43614, P32247, O43613,
P28335, P22466, O43612, O43603, Q16568

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GOID GO:0022008

TERM neurogenesis

P-VALUE 1.01471729905576e-06
CORRECTED P-VALUE 0.00284019372005707
NUM_ANNOTATIONS 97 (of 553)
ANNOTATED_GENES Q9Y261, O95754, Q02962, O95185, Q9H2A3, P14138,
O94788, O95631, P53667, P09544, Q14469, P23769, Q15835, O43186, O75093,
Q13972, Q16518, P36897, P43146, Q15465, P35221, O00468, P11831, O00238,
P31249, P28370, P10071, O95948, Q12955, Q01726, P47928, P32238, Q99453,
O14813, Q12837, P49335, P10070, P32297, P10588, O43711, Q13214, Q15784,
P56693, O60663, P18075, P98172, O14514, O60890, Q9UBY8, P35240, P21728,
Q9H2C1, P51679, Q16650, P31273, P61812, P21359, Q8IYT8, P48431, P02649,
P41743, P54845, P56178, A0PK02, O00555, P78504, O15522, Q15078, Q12879,
O14786, O00634, Q13402, P14416, Q13485, P49640, P17677, P04628, P62988,
P28358, O75094, P50553, Q12791, O60609, P17787, A1A4U0, O00755, O60462,
Q03052, Q15768, Q07687, P50148, P19622, O00144, Q99835, Q15319, O43763,
O94887

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GOID GO:0008285

TERM negative regulation of cell proliferation

P-VALUE 1.25221752936224e-06
CORRECTED P-VALUE 0.0035049568646849
NUM_ANNOTATIONS 68 (of 351)
ANNOTATED_GENES P49918, P32745, P41235, P35548, Q96IZ0, P42771,
P09544, P55273, P16150, Q9BZS1, P56545, P30872, Q01955, O43324, P01574,
P15291, P51531, Q14201, P25054, Q15465, P35221, P06748, P28908, P02753,
Q8N196, P10071, O14683, P35372, P52945, Q99445, P31391, P28069, P14921,
Q99801, P18075, Q04721, O14514, O95813, P35240, P35348, P61812, P21359,
O15540, P02649, Q07011, P98088, P98177, O15522, P22466, Q14512, P01374,
Q03431, P30874, P15531, P14416, Q13485, Q14582, Q9BRP0, P13631, P49356,
P49815, O15296, O95390, P22301, O95995, Q92786, Q00987, Q12824

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GOID GO:0007586

TERM digestion

P-VALUE 1.86726621281331e-06

CORRECTED P-VALUE 0.00522647812966445

NUM_ANNOTATIONS 28 (of 101)

ANNOTATED_GENES P06727, P01130, P30874, P50391, P46098, Q02505, P12104, P47211, P02753, P30872, P14091, P47872, O14815, Q06520, Q12791, P01298, P11473, P32238, P10082, O43193, P98088, Q6W4X9, Q16820, Q14032, Q3SYC2, P12821, P00790, O43603

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GOID GO:0031324

TERM negative regulation of cellular metabolic process

P-VALUE 2.62809902681755e-06

CORRECTED P-VALUE 0.00735604917606232

NUM_ANNOTATIONS 115 (of 698)

ANNOTATED_GENES P51786, P23497, O14604, Q9Y2Y4, Q02962, Q96IZ0, O15524, P42771, P01258, Q00577, P55273, Q14469, Q96JB3, Q9BZS1, O00409, P05154, O75427, Q8WYB5, P10827, P01574, Q04724, Q15466, O00358, Q3ZCU4, O96004, P16989, P41970, Q07666, P25054, Q15465, Q9Y576, Q6VMQ6, Q9NP08, O43251, Q9Y294, O00222, Q01082, P01127, O95125, P10071, P35227, Q15697, Q86UT5, P52945, Q99750, P52701, P05111, P47928, P11473, O43829, Q8N6T7, Q12837, P10070, Q9NP71, P06727, Q99742, O00488, O60921, Q9UBY8, P35240, Q13813, P54259, Q03181, P47756, O75446, P31273, Q13950, P17098, O75360, P48431, O94776, Q9Y6E7, Q9UJU5, Q6NT51, P04085, P84022, P09327, O00555, O14753, A2RRE3, Q01658, P63279, P28335, P49454, O95365, Q9H7Z6, Q9BQ70, P11137, O75366, O60248, Q15406, O43439, P51843, Q14582, Q13485, O43593, P62263, Q9Y2Y8, O75593, O75469, P35368, Q9BRP0, Q01094, Q9H3D4, P48380, P13631, O00425, P52907, Q07687, Q02297, P22301, Q00987, Q13506, Q9NRC6, Q14190