

Table S4. MAPT-containing Gene Sets

| Database Version | Collection/... | Total Gene Sets | identified in GSEA (Neurodegeneration) |
|------------------|----------------------------|---|---|
| msigdb_v5.1.xml | c2.cp.reactome | 77 | 4 |
| | | 4 REACTOME_APOPTOTIC_CLEAVAGE_OF_CELLULAR_PROTEINS | 0 |
| | | REACTOME_CASPASE_MEDIATED_CLEAVAGE_OF_CYTOSKELETAL_PROTEINS | 0 |
| | | REACTOME_APOPTOSIS | 0 |
| | | REACTOME_APOPTOTIC_EXECUTION_PHASE | 0 |
| | c5.all | 73 ORGANELLE_PART | 0 |
| | | AXON | 0 |
| | | MICROTUBULE_ASSOCIATED_COMPLEX | 0 |
| | | MICROTUBULE_CYTOSKELETON | 0 |
| | | CYTOPLASMIC_PART | 0 |
| | | MEMBRANE | 0 |
| | | CYTOPLASM | 0 |
| | | NON_MEMBRANE_BOUND_ORGANELLE | 0 |
| | | CYTOSKELETAL_PART | 0 |
| | | CYTOSOL | 0 |
| | | CYTOSKELETON | 0 |
| | | MICROTUBULE | 0 |
| | | CELL_PROJECTION | 0 |
| | | INTRACELLULAR_NON_MEMBRANE_BOUND_ORGANELLE | 0 |
| | | INTRACELLULAR_ORGANELLE_PART | 0 |
| | | MACROMOLECULAR_COMPLEX | 0 |
| | | PROTEIN_COMPLEX | 0 |
| | | SITE_OF_POLARIZED_GROWTH | 0 |
| | | GROWTH_CONE | 0 |
| | | NEURON_PROJECTION | 0 |
| | PLASMA_MEMBRANE | 0 | |
| | SYSTEM_DEVELOPMENT | 0 | |
| | NERVOUS_SYSTEM_DEVELOPMENT | 0 | |

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|---|---|
| CELL_DEVELOPMENT | 0 |
| NEURITE_DEVELOPMENT | 1 |
| REGULATION_OF_ANATOMICAL_STRUCTURE_MORPHOGENESIS | 0 |
| MICROTUBULE_BASED_PROCESS | 0 |
| REGULATION_OF_AXONOGENESIS | 0 |
| ORGANELLE_ORGANIZATION_AND_BIOGENESIS | 0 |
| REGULATION_OF_PROTEIN_POLYMERIZATION | 0 |
| ANATOMICAL_STRUCTURE_MORPHOGENESIS | 0 |
| AXONOGENESIS | 1 |
| MICROTUBULE_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS | 0 |
| REGULATION_OF_PROTEIN_METABOLIC_PROCESS | 0 |
| REGULATION_OF_DEVELOPMENTAL_PROCESS | 0 |
| CELLULAR_MORPHOGENESIS_DURING_DIFFERENTIATION | 1 |
| GENERATION_OF_NEURONS | 0 |
| REGULATION_OF_CELLULAR_COMPONENT_ORGANIZATION_AND_BIOGENESIS | 0 |
| MULTICELLULAR_ORGANISMAL_DEVELOPMENT | 0 |
| POSITIVE_REGULATION_OF_CELLULAR_PROTEIN_METABOLIC_PROCESS | 0 |
| PROTEIN_POLYMERIZATION | 0 |
| REGULATION_OF_CELLULAR_METABOLIC_PROCESS | 0 |
| POSITIVE_REGULATION_OF_DEVELOPMENTAL_PROCESS | 0 |
| REGULATION_OF_ORGANELLE_ORGANIZATION_AND_BIOGENESIS | 0 |
| POSITIVE_REGULATION_OF_METABOLIC_PROCESS | 0 |
| CELLULAR_PROTEIN_METABOLIC_PROCESS | 0 |
| POSITIVE_REGULATION_OF_CELLULAR_COMPONENT_ORGANIZATION_AND_BIOGENESIS | 0 |
| ESIS | 0 |
| PROTEIN_METABOLIC_PROCESS | 0 |
| POSITIVE_REGULATION_OF_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS | 0 |
| ANATOMICAL_STRUCTURE_DEVELOPMENT | 0 |
| POSITIVE_REGULATION_OF_CELLULAR_METABOLIC_PROCESS | 0 |
| POSITIVE_REGULATION_OF_BIOLOGICAL_PROCESS | 0 |
| REGULATION_OF_NEUROGENESIS | 0 |

| | |
|--|---|
| NEUROGENESIS | 0 |
| REGULATION_OF_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS | 0 |
| REGULATION_OF_METABOLIC_PROCESS | 0 |
| NEURON_DIFFERENTIATION | 0 |
| NEURON_DEVELOPMENT | 1 |
| POSITIVE_REGULATION_OF_PROTEIN_METABOLIC_PROCESS | 0 |
| CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS | 0 |
| CELLULAR_MACROMOLECULE_METABOLIC_PROCESS | 0 |
| POSITIVE_REGULATION_OF_CELLULAR_PROCESS | 0 |
| REGULATION_OF_CELLULAR_PROTEIN_METABOLIC_PROCESS | 0 |
| MICROTUBULE_POLYMERIZATION_OR_DEPOLYMERIZATION | 0 |
| PROTEIN_DOMAIN_SPECIFIC_BINDING | 0 |
| SH3_DOMAIN_BINDING | 0 |
| MICROTUBULE_BINDING | 0 |
| LIPOPROTEIN_BINDING | 0 |
| TUBULIN_BINDING | 0 |
| STRUCTURAL_MOLECULE_ACTIVITY | 0 |
| CYTOSKELETAL_PROTEIN_BINDING | 0 |
| STRUCTURAL_CONSTITUENT_OF_CYTOSKELETON | 0 |
| ENZYME_BINDING | 0 |