| FT57 | aliase: HIPPI. Apoptotic process; intrafagellar transport | anontosis | Shape (border |
|--|--|---|--|
| MAX | aliase: HIPPI. Apoptotic process; intrafagellar transport MYC associated factor X. Involved in cell proliferation, differentiation; | apoptosis | parallelogram |
| | apoptosis | | |
| NMA1 | neuron- and testis-specific protein; proapoptotic protein in neurons | | |
| RIB3 | negative regulator of NF-kappaB; can also sensitize cells to TNF- and | | |
| | TRAIL-induced apoptosis | | |
| 'HL JBQLN1 | neuronal differentiation; neuronal apoptosis apoptotic process; protein ubiquitination | apoptosis/ubiquitination | parallelogram |
| QSTM1 | autophagy; apoptotic process; endosomal transport | autophagy | octagon |
| CDC106 | | cell processes | circle (pink) |
| DX56 | member of the DEAD box protein family; alteration of RNA secondary | | , |
| | structure; ATPase activity | | |
| RTAP4-12 | keratin-associated protein | | |
| MAGEB2 | cell growth control; epigenetic reprogrammed by valproic acid | | |
| TCD3 ARA | component of mitochondrion; mitochondrial translation regulation of development, differentiation, apoptosis | | |
| RBM38 | Aliase: RNPC1. Cell differentiation; cell cycle | | |
| LX4 | DNA repair and recombination | | |
| SMC3 | component of the multimeric cohesin complex; chromosome segregation; | | |
| | regulator of RUNX1 | | |
| REX2 | double-stranded DNA break repair | | |
| IGB7 LC35B2 | cell signaling; cell adhesion solute carrier; transmembrane transport | cell processes/cell-cell interaction/adhesion cell processes/transport | circle (pink) circle (pink) |
| TR | carrier protein for thyroid hormones, cerebrospinal fluid and retinol | cell processes/transport | circle (pirik) |
| 110 | transport | | |
| HAUS7 | centrosome and mitotic spindle integrity | cytoskeleton | circle (green) |
| DF2L | component of cytoskeleton; formation of mother centriole distal/subdistal | | |
| OTDID4 | appendages and generation of primary cilia | | ataut () |
| STPIP1 UN | scaffold protein and regulator of the actin cytoskeleton JUN (aliase AP-1) activation is associated with increased neuronal cell | cytoskeleton/actin | circle (green) |
| UN | death | mmammation/cen death | diamond |
| EBPB | regulation of genes involved in immune and inflammatory responses | inflammation/immune function | diamond |
| ILA-B | antigen processing and presentation via MHC class I; immune response | | |
| ACPP | general regulatory partner of Shaw-like K(+) channels (KCNC); acid | ion channel/voltage-gated channel | triangle (red) |
| LINIVA | phosphatase activity | | |
| RUNX1 | neuronal differentiation and microglial activation oligodendrocyte maturation and myelination; glutamatergic synaptic | neuroglia processes | rectangle |
| SPA | activity | neurogila processes/oligodendrocyte differentiation | rectangle |
| NBP | | neuronal development | hexagon |
| | transcriptional regulation; brain development | · | ŭ |
| ITR | metabolism of homocysteine, which is involved in epileptogenesis; | | |
| | nervous system development | | |
| ATN1 | central nervous system development; neuron apoptosis; regulation of neuron differentiation | neuronal development/plasticity | hexagon |
| DAZAP2 | cell signaling and transcription regulation; Wnt/beta-catenin-signalling | | |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | pathway; posterior neural fate; essential branch of FGF-induced neural | | |
| | patterning | | |
| RBB2 | | | |
| | nervous system development; glial cell differentiation; axon guidance | | |
| | interacts with NR3A, linking NMDA receptor activation to suppression of | | |
| GPS2 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation | | |
| SPS2 RAD54L2 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development | | |
| SPS2 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation | | |
| SPS2 RAD54L2 FSC22D1 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein | neuronal development/plasticity/cell migration | hexagon |
| GPS2 RAD54L2 FSC22D1 ZHX2 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction | neuronal development/plasticity/cell migration | hexagon |
| SPS2 RAD54L2 SC22D1 CHX2 DISC1 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in | neuronal development/plasticity/cell migration | hexagon |
| RAD54L2 SC22D1 HX2 DISC1 GFR | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy | | |
| RAD54L2 SC22D1 HX2 DISC1 GFR | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve | | hexagon |
| AD54L2 SC22D1 HX2 DISC1 GFR | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy | | |
| AD54L2 SC22D1 HX2 DISC1 GFR | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response | | |
| RPS2 RAD54L2 RSC22D1 HX2 RSC2DSC1 RGFR RDKN2A RMAD4 RREBZF RNAJB2 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulation of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination | neuronal development/plasticity/dendritic growth | hexagon |
| RPS2 RAD54L2 RSC22D1 HX2 RSC2DSC1 RGFR RDKN2A RMAD4 RREBZF RNAJB2 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; | neuronal development/plasticity/dendritic growth | hexagon |
| AD54L2 SC22D1 HX2 SC22D1 HX2 SISC1 GGFR CDKN2A CDKN2A CMAD4 REBZF NAJB2 JFKBIA | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival | neuronal development/plasticity/dendritic growth | hexagon |
| IPS2 IAD54L2 SC22D1 HX2 ISC1 GFR IDKN2A IMAD4 IREBZF INAJB2 IFKBIA IPL34 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival | neuronal development/plasticity/dendritic growth | hexagon |
| AD54L2 SC22D1 HX2 SC22D1 HX2 SISC1 GFR DKN2A MAD4 FREBZF NAJB2 IFKBIA PL34 ERPINB2 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival | neuronal development/plasticity/dendritic growth neuroprotection | hexagon |
| RAD54L2 SC22D1 ZHX2 DISC1 EGFR CDKN2A CDKN2A CREBZF DNAJB2 JFKBIA RPL34 REPINB2 LTF4 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress | neuronal development/plasticity/dendritic growth neuroprotection | hexagon rectangle (red) |
| RAD54L2 RAD54L2 RSC22D1 RHX2 RICSC1 RGFR RDKN2A RMAD4 REBEJF RNAJB2 RFKBIA RPL34 REPINB2 RTF4 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons | neuronal development/plasticity/dendritic growth neuroprotection | hexagon rectangle (red) |
| RAD54L2 RAD54L2 RSC22D1 RHX2 RICSC1 RGFR RDKN2A RMAD4 REBEJF RNAJB2 RFKBIA RPL34 REPINB2 RTF4 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress | hexagon rectangle (red) rectangle (pink) |
| RAD54L2 RAD54L2 RSC22D1 RHX2 RICSC1 RGFR RDKN2A RMAD4 REBEJF RNAJB2 RFKBIA RPL34 REPINB2 RTF4 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress | hexagon rectangle (red) rectangle (pink) |
| RAD54L2 CSC22D1 CHX2 DISC1 CGFR CDKN2A CREBZF NAJB2 UFKBIA RPL34 SERPINB2 LTF4 LFTPH LNKS1B | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor binding | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress | hexagon rectangle (red) rectangle (pink) |
| RAD54L2 RAD54L2 RSC22D1 RHX2 RICSC1 RGFR RDKN2A RMAD4 REBEJF RNAJB2 RFKBIA RPL34 REPINB2 RTF4 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress | hexagon rectangle (red) rectangle (pink) |
| RAD54L2 RAD54L2 RSC22D1 RHX2 RSC3C2D1 RHX2 RSC3C3C1 RGFR RDKN2A RCBZF RNAD4 RREBZF RNAJB2 RFKBIA RPL34 RERPINB2 RFFF RFFF RNKS1B RTXN1 RDP1 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor binding regulation of excitatory postsynaptic membrane potential Rearrangement of nuclear architecture; interacts with TFIIC for synaptic activation and dendritic length and branching control | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress | hexagon rectangle (red) rectangle (pink) |
| AD54L2 AD | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor binding regulation of excitatory postsynaptic membrane potential Rearrangement of nuclear architecture; interacts with TFIIC for synaptic activation and dendritic length and branching control official name: CRELD2. Interacts with cytoplasmic domain of human | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress | hexagon rectangle (red) rectangle (pink) |
| AD54L2 SC22D1 HX2 SC22D1 HX2 SISC1 GFR DKN2A MAD4 REB2F NAJB2 FKBIA REPINB2 TF4 FTPH NKS1B TXN1 DP1 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress cathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor binding regulation of excitatory postsynaptic membrane potential Rearrangement of nuclear architecture; interacts with TFIIC for synaptic activation and dendritic length and branching control official name: CRELD2. Interacts with cytoplasmic domain of human neuronal nicotinic acetylcholine receptor; ER stress response; calcium ion | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress | hexagon rectangle (red) rectangle (pink) |
| AD54L2 SC22D1 HX2 SC22D1 HX2 SISC1 GGFR CDKN2A SMAD4 REBZF NAJB2 SIFKBIA RPL34 SERPINB2 TF4 STPH NKS1B STXN1 DD1 SKFZP667O055 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor binding regulation of excitatory postsynaptic membrane potential Rearrangement of nuclear architecture; interacts with TFIIC for synaptic activation and dendritic length and branching control official name: CRELD2. Interacts with cytoplasmic domain of human neuronal nicotinic acetylcholine receptor; ER stress response; calcium ion binding | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress | hexagon rectangle (red) rectangle (pink) |
| IPS2 IAD54L2 SC22D1 HX2 ISC1 IGFR IDKN2A IDKN2A IMAD4 IFREBZF INAJB2 IFKBIA IFK | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor binding regulation of excitatory postsynaptic membrane potential Rearrangement of nuclear architecture; interacts with TFIIC for synaptic activation and dendritic length and branching control official name: CRELD2. Interacts with cytoplasmic domain of human neuronal nicotinic acetylcholine receptor; ER stress response; calcium ion binding neurotransmission (b-alanine) modulation; electron carrier activity | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress | hexagon rectangle (red) rectangle (pink) |
| AD54L2 SC22D1 HX2 ISC1 GFR DKN2A MAD4 REBZF NAJB2 FKBIA PL34 ERPINB2 TF4 FTPH NKS1B TXN1 DP1 KFZP667O055 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor binding regulation of excitatory postsynaptic membrane potential Rearrangement of nuclear architecture; interacts with TFIIC for synaptic activation and dendritic length and branching control official name: CRELD2. Interacts with cytoplasmic domain of human neuronal nicotinic acetylcholine receptor; ER stress response; calcium ion binding | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress | hexagon rectangle (red) rectangle (pink) |
| PS2 AD54L2 SC22D1 HX2 ISC1 GFR DKN2A MAD4 REB2F NAJB2 FKBIA PL34 ERPINB2 TF4 FTPH NKS1B TXN1 DP1 KFZP667O055 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor binding regulation of excitatory postsynaptic membrane potential Rearrangement of nuclear architecture; interacts with TFIIC for synaptic activation and dendritic length and branching control official name: CRELD2. Interacts with cytoplasmic domain of human neuronal nicotinic acetylcholine receptor; ER stress response; calcium ion binding | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress | hexagon rectangle (red) rectangle (pink) |
| PS2 AD54L2 SC22D1 HX2 ISC1 GFR DKN2A MAD4 REBZF NAJB2 FKBIA PL34 ERPINB2 TF4 FTPH NKS1B TXN1 DP1 KFZP667O055 PYD EA1 LF2 GB1 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor binding regulation of excitatory postsynaptic membrane potential Rearrangement of nuclear architecture; interacts with TFIIC for synaptic activation and dendritic length and branching control official name: CRELD2. Interacts with cytoplasmic domain of human neuronal nicotinic acetylcholine receptor; ER stress response; calcium ion binding neurotransmission (b-alanine) modulation; electron carrier activity endosomal trafficking; neurite outgrowth; synaptic plasticity; recycling of synaptic vesicles and neurotransmitter receptors | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress | hexagon rectangle (red) rectangle (pink) |
| PS2 AD54L2 SC22D1 HX2 SC22D1 HX2 ISC1 GFR DKN2A MAD4 REBZF NAJB2 IFKBIA PL34 ERPINB2 TF4 FTPH NKS1B TXN1 DP1 KFZP667O055 PYD EA1 LF2 IGB1 IGB2 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor binding regulation of excitatory postsynaptic membrane potential Rearrangement of nuclear architecture; interacts with TFIIC for synaptic activation and dendritic length and branching control official name: CRELD2. Interacts with cytoplasmic domain of human neuronal nicotinic acetylcholine receptor; ER stress response; calcium ion binding neurotransmission (b-alanine) modulation; electron carrier activity endosomal trafficking; neurite outgrowth; synaptic plasticity; recycling of synaptic vesicles and neurotransmitter receptors regulation of neurotransmission during endoplasmic reticulum stress cell adhesion; synaptic development; axonal outgrowth synaptic contacts and synaptogenesis of hippocampal neurons | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress | hexagon rectangle (red) rectangle (pink) |
| AD54L2 SC22D1 HX2 SISC1 GGFR CDKN2A CDKNAA CDKN2A CDKNAA | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor binding regulation of excitatory postsynaptic membrane potential Rearrangement of nuclear architecture; interacts with TFIIC for synaptic activation and dendritic length and branching control official name: CRELD2. Interacts with cytoplasmic domain of human neuronal nicotinic acetylcholine receptor; ER stress response; calcium ion binding neurotransmission (b-alanine) modulation; electron carrier activity endosomal trafficking; neurite outgrowth; synaptic plasticity; recycling of synaptic vesicles and neurotransmitter receptors regulation of neurotransmission during endoplasmic reticulum stress cell adhesion; synaptic development; axonal outgrowth synaptic contacts and synaptogenesis of hippocampanal neurons cell adhesion; migration; signaling; modulator | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress | hexagon rectangle (red) rectangle (pink) |
| AD54L2 SC22D1 HX2 SC22D1 HX2 SISC1 GGFR ADKN2A ADK | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor binding regulation of excitatory postsynaptic membrane potential Rearrangement of nuclear architecture; interacts with TFIIC for synaptic activation and dendritic length and branching control official name: CRELD2. Interacts with cytoplasmic domain of human neuronal nicotinic acetylcholine receptor; ER stress response; calcium ion binding neurotransmission (b-alanine) modulation; electron carrier activity endosomal trafficking; neurite outgrowth; synaptic plasticity; recycling of synaptic vesicles and neurotransmitter receptors regulation of neurotransmission during endoplasmic reticulum stress cell adhesion; synaptic development; axonal outgrowth synaptic contacts and synaptogenesis of hippocampal neurons sell adhesion; migration; signaling; modulator of | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress | hexagon rectangle (red) rectangle (pink) |
| PS2 AD54L2 SC22D1 HX2 SC22D1 HX2 ISC1 GFR DKN2A MAD4 FREBZF NAJB2 IFKBIA PL34 ERPINB2 TF4 FTPH NKS1B TXN1 DP1 KFZP667O055 PYD EA1 LF2 IGB1 IGB2 IGB3 ASP | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor binding regulation of excitatory postsynaptic membrane potential Rearrangement of nuclear architecture; interacts with TFIIC for synaptic activation and dendritic length and branching control official name: CRELD2. Interacts with cytoplasmic domain of human neuronal nicotinic acetylcholine receptor; ER stress response; calcium ion binding neurotransmission (b-alanine) modulation; electron carrier activity endosomal trafficking; neurite outgrowth; synaptic plasticity; recycling of synaptic vesicles and neurotransmitter receptors regulation of neurotransmission during endoplasmic reticulum stress cell adhesion; synaptic development; axonal outgrowth synaptic contacts and synaptogenesis of hippocampal neurons cell adhesion; migration; signaling; modulato | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress synaptic transmission | hexagon rectangle (red) rectangle (pink) vee |
| IPS2 IAD54L2 SC22D1 HX2 ISC1 GFR IDKN2A IMAD4 IREBZF INAJB2 IFKBIA IPL34 ERPINB2 ITF4 IFTPH INKS1B ITXN1 IDP1 IKFZP667O055 IPYD EA1 LF2 IGB1 IGB2 IGB2 IGB3 | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor binding regulation of excitatory postsynaptic membrane potential Rearrangement of nuclear architecture; interacts with TFIIC for synaptic activation and dendritic length and branching control official name: CRELD2. Interacts with cytoplasmic domain of human neuronal nicotinic acetylcholine receptor; ER stress response; calcium ion binding neurotransmission (b-alanine) modulation; electron carrier activity endosomal trafficking; neurite outgrowth; synaptic plasticity; recycling of synaptic vesicles and neurotransmitter receptors regulation of neurotransmission during endoplasmic reticulum stress cell adhesion; synaptic development; axonal outgrowth synaptic contacts and synaptogenesis of hippocampal neurons sell adhesion; migration; signaling; modulator of | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress synaptic transmission | hexagon rectangle (red) rectangle (pink) |
| PS2 AD54L2 SC22D1 HX2 ISC1 GFR DKN2A MAD4 REBZF NAJB2 FKBIA PL34 ERPINB2 TF4 FTPH NKS1B TXN1 DP1 KFZP667O055 PYD EA1 LF2 GB1 GB2 GB3 ASP | interacts with NR3A, linking NMDA receptor activation to suppression of RAS/MAPK-mediated signaling; cell survival; p53 activity modulation aliase ARIP4. Neuronal development cell proliferation, differentiation and apoptosis negative regulation of neuron differentiation; zinc finger protein microtubule cytoskeleton organization; neuron migration cell proliferation; axon guidance; cerebral cortex cell migration; interaction of EGFR and EMP-1 plays a role in the mechanism of drug resistance in epilepsy Aliases: p16; INK4A. cell cycle; epigenetic response during nerve regeneration; axonal lenght dendritic growth and complexity and neuron cell body size Zhangfei; potential regulator of unfolded protein response neuroprotection; regulation of cell growth; protein ubiquitination member of the NF-kappa-B inhibitor family; inflammatory responses; neurite outgrowth and cell survival regulation of CDK5, a mediator of neuronal death and survival neuroprotection induced by synaptic activity control of hippocampal GABABR1a and GABABR1b subunit gene expression; response to oxidative stress clathrin-mediated trafficking in neurons postsynaptic signaling scaffolding protein; cellular component of Cajal body; postsynaptic density and postsynaptic membrane; ephrin receptor binding regulation of excitatory postsynaptic membrane potential Rearrangement of nuclear architecture; interacts with TFIIC for synaptic activation and dendritic length and branching control official name: CRELD2. Interacts with cytoplasmic domain of human neuronal nicotinic acetylcholine receptor; ER stress response; calcium ion binding neurotransmission (b-alanine) modulation; electron carrier activity endosomal trafficking; neurite outgrowth; synaptic plasticity; recycling of synaptic vesicles and neurotransmitter receptors regulation of neurotransmission during endoplasmic reticulum stress cell adhesion; synaptic development; axonal outgrowth synaptic contacts and synaptogenesis of hippocampal neurons cell adhesion; migration; signaling; modulator of | neuronal development/plasticity/dendritic growth neuroprotection response to oxidative stress synaptic transmission | hexagon rectangle (red) rectangle (pink) vee |

| NSF | GABAB signaling efficacy; synaptic transmission; exocytosis; membran | e | | |
|-----------|---|--------------------------------------|----------------------|--|
| | fusion events; dendritic shaft | | | |
| GABARAP | GABA receptor binding; synaptic transmission | | | |
| GABARAPL1 | GABA receptor binding; autophagy | synaptic transmission/GABA/autophagy | vee | |
| GABARAPL2 | GABA receptor binding; autophagy; intra-Golgi vesicle-mediated transpor | rt; | | |
| | protein transport | | | |
| SCAMP5 | SNARE complex component; synaptic vesicle membrane component; synaptic transmission/SNARE complex vee positive regulation of calcium ion-dependent exocytosis | | | |
| STX6 | vesicle transport and fusion (t-SNARE family); neurite outgrowth | | | |
| CLP1 | RNA splicing; mRNA 3'-end processing | transcriptional regulation | circle (yellow) | |
| DENR | contains an SUI1 domain; interects with eIF-2 and directs the ribosome to | to | | |
| | the proper translation start site | | | |
| EIF6 | translation initiation factor | | | |
| PCF11 | degradation of RNA polymerase II-associated nascent RNA an transcriptional termination | d | | |
| POLR2C | subunit of RNA polymerase II, the polymerase responsible for synthesizin messenger RNA | g | | |
| R3HDM | poly(A) RNA binding | | | |
| ZNF212 | gene regulation and development | | | |
| ZNF664 | zinc finger protein; regulation of transcription | | | |
| UBAC1 | protein ubiquitination | ubiquitination | parallelogram (pink) | |