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Dynorphin Co-expressed with D1Rs, binds kappa opioid receptor, exerts inhibitory actions on glutamatergic neurons. Coexpressed with D2Rs, binds delta opioid receptors, provides inhibitory modulation of neurons Ebx116 F-box and leucine-rich repeat protein 16 Gpr158 G protein-coupled receptor 158 Member of the metabotropic glutamate family of G-protein coupled receptor 3 family Grina Glutamate receptor, ionotropic, NMDA-associated Glutamate-binding subunit of the NMDA receptor (NMDARA1) NKB Neurokinin B Co-localized with D1Rs in a unique population of striatal projection neurons NK3R Neurokinin B receptor (NKB-R) Activates both phosphotidylinositol hydrolysis and the cAMP signal cascade Solute carrier family 1 Solute carrier family 1 glial high affinity glutamate transporter member 2, actively removes the excitatory neurotransmitter glutamate from the extracellular space Sic35d3 Solute carrier family 35, member D3 One of the most strongly striatonigral-specifically expressed genes, used as MSN marker similar to adenylate kinase 5 isoform 1 Rattus norvegicus cDNA clone UI-R-CA1-bil-a-01-0-UI 3' Myelination Mag Myelin-associated glycoprotein MBP Myelin basic protein Reduced MBP expression in schizophrenia the third most abundant protein in CNS myelin Mog Myelin oligodendrocyte glycoprotein Proteolipid protein 1 Proteolipid protein	Mature genes: Adora2a Aqp4 CaMΚΙΙα CaMΚΙΙβ Clk4 D1R D2R	Aquaporin 4 Calcium/calmodulin-dependent protein kinase II, alpha subunit Calcium/calmodulin-dependent protein kinase III, beta subunit Cdc2-like kinase 4 Dopamine receptor 1 Dopamine receptor 2	Parallels perfectly the expression pattern of D2Rs Plays a role in recovery from neuronal activation AMPA, NMDA and DA receptor signaling AMPA, NMDA and DA receptor signaling May be involved in the regulation of alternative splicing
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NK3R Neurokinin B receptor (NKB-R) Activates both phosphotidylinositol hydrolysis and the cAMP signal cascade Solute carrier family 1 Solute carrier family 1 Jiglal high affinity glutamate transporter member 2, actively removes the excitatory neurotransmitter glutamate from the extracellular space Sic35d3 Solute carrier family 35, member D3 One of the most strongly striatonigral-specifically expressed genes, used as MSN marker similar to adenylate kinase 5 isoform 1 Rattus norvegicus cDNA clone UI-R-CA1-bli-a-01-0-UI 3' Myelination Mag Myelin-associated glycoprotein Mobp Myelin-associated oligodendrocyte basic protein Mog Myelin oligodendrocyte glycoprotein Mog Myelin oligodendrocyte glycoprotein Can to induce autoimmune encephalomyelitis Primary constituent of myelin, increase in Ppl gene dosage resulted in hypomyelination, astrocytosis & seizures Transitional DRRF Dopamine receptor regulating factor reduces D1, D2 & D3R expression (Hwang et al. 2001, Lee et al. 2008). match to 3'UTR of microtubule-associated protein 1B	Mature genes: Adora2a Aqp4 CaMKIIα CaMKIIβ Clk4 D1R D2R DARPP32 Dream Dynorphin Enkephalin Fbx116 Gpr158	Aquaporin 4 Calcium/calmodulin-dependent protein kinase II, alpha subunit Calcium/calmodulin-dependent protein kinase III, beta subunit Cdc2-like kinase 4 Dopamine receptor 1 Dopamine receptor 2 Dopamine and cyclic AMP-regulated phosphoprot Calsenilin, KChIP3 F-box and leucine-rich repeat protein 16 G protein-coupled receptor 158	Parallels perfectly the expression pattern of D2Rs Plays a role in recovery from neuronal activation AMPA, NMDA and DA receptor signaling AMPA, NMDA and DA receptor signaling May be involved in the regulation of alternative splicing Critical mediator of dopamine function. The most commonly used MSN marker Binds the dynorphin response element and regulates dynorphin (repressing) expression Co-expressed with D1Rs, binds kappa opioid receptor, exerts inhibitory actions on glutamatergic neurons. Coexpressed with D2Rs, binds delta opioid receptors, provides inhibitory modulation of neurons novel gene, very little info, this gene family is involved in cell proliferation Member of the metabotropic glutamate family of G-protein coupled receptor 3 family
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Solute carrier family 35, member D3 One of the most strongly striatonigral-specifically expressed genes, used as MSN marker similar to adenylate kinase 5 isoform 1 Rattus norvegicus cDNA clone UI-R-CA1-bli-a-01-0-UI 3' Mag myelin-associated glycoprotein MBP Myelin basic protein Mobp Myelin-associated oligodendrocyte basic protein Mog Myelin oligodendrocyte glycoprotein Mog Myelin oligodendrocyte glycoprotein Can to induce autoimmune encephalomyelitis Proteolipid protein 1 Primary constituent of myelin, increase in Ppl gene dosage resulted in hypomyelination, astrocytosis & seizures Involved in oligodendroglial cell differentiation Transitional DRRF Dopamine receptor regulating factor Feduces D1, D2 & D3R expression (Hwang et al. 2001, Lee et al. 2008). match to 3'UTR of microtubule-associated protein 1B	Mature genes: Adora2a Aqp4 CaMKIIα CaMKIIβ Clk4 D1R D2R DARPP32 Dream Dynorphin Enkephalin Fbxl16 Gpr158 Grina NKB NK3R	Aquaporin 4 Calcium/calmodulin-dependent protein kinase II, alpha subunit Calcium/calmodulin-dependent protein kinase III, beta subunit Cdc2-like kinase 4 Dopamine receptor 1 Dopamine receptor 2 Dopamine and cyclic AMP-regulated phosphoprot Calsenilin, KChIP3 F-box and leucine-rich repeat protein 16 G protein-coupled receptor 158 Glutamate receptor, ionotropic, NMDA-associated Neurokinin B Neurokinin B receptor (NKB-R)	Parallels perfectly the expression pattern of D2Rs Plays a role in recovery from neuronal activation AMPA, NMDA and DA receptor signaling AMPA, NMDA and DA receptor signaling May be involved in the regulation of alternative splicing Critical mediator of dopamine function. The most commonly used MSN marker Binds the dynorphin response element and regulates dynorphin (repressing) expression Co-expressed with D1Rs, binds kappa opioid receptor, exerts inhibitory actions on glutamatergic neurons. Coexpressed with D2Rs, binds delta opioid receptors, provides inhibitory modulation of neurons novel gene, very little info, this gene family is involved in cell proliferation Member of the metabotropic glutamate family of G-protein coupled receptor 3 family Glutamate-binding subunit of the NMDA receptor (NMDARA1) Co-localized with D1Rs in a unique population of striatal projection neurons Activates both phosphotidylinositol hydrolysis and the cAMP signal cascade
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Rattus norvegicus cDNA clone UI-R-CA1-bli-a-01-0-UI 3' Myelination Mag myelin-associated glycoprotein MBP Myelin basic protein Reduced MBP expression in schizophrenia Mobp Myelin-associated oligodendrocyte basic protein the third most abundant protein in CNS myelin Mog Myelin oligodendrocyte glycoprotein Can to induce autoimmune encephalomyelitis Plp1 Proteolipid protein 1 Primary constituent of myelin, increase in Ppl gene dosage resulted in hypomyelination, astrocytosis & seizures Transferrin Involved in oligodendroglial cell differentiation Transitional DRRF Dopamine receptor regulating factor reduces D1, D2 & D3R expression (Hwang et al. 2001, Lee et al. 2008). match to 3'UTR of microtubule-associated protein 1B	Mature genes: Adora2a Aqp4 CaMKIIα CaMKIIβ Clk4 D1R D2R DARPP32 Dream Dynorphin Enkephalin Fbxl16 Gpr158 Grina NKB NK3R	Aquaporin 4 Calcium/calmodulin-dependent protein kinase II, alpha subunit Calcium/calmodulin-dependent protein kinase III, beta subunit Cdc2-like kinase 4 Dopamine receptor 1 Dopamine receptor 2 Dopamine and cyclic AMP-regulated phosphoprot Calsenilin, KChIP3 F-box and leucine-rich repeat protein 16 G protein-coupled receptor 158 Glutamate receptor, ionotropic, NMDA-associated Neurokinin B Neurokinin B receptor (NKB-R) Solute carrier family 1	Parallels perfectly the expression pattern of D2Rs Plays a role in recovery from neuronal activation AMPA, NMDA and DA receptor signaling AMPA, NMDA and DA receptor signaling May be involved in the regulation of alternative splicing Critical mediator of dopamine function. The most commonly used MSN marker Binds the dynorphin response element and regulates dynorphin (repressing) expression Co-expressed with D1Rs, binds delta opioid receptor, exerts inhibitory actions on glutamatergic neurons. Coexpressed with D2Rs, binds delta opioid receptors, provides inhibitory modulation of neurons novel gene, very little info, this gene family is involved in cell proliferation Member of the metabotropic glutamate family of G-protein coupled receptor 3 family Glutamate-binding subunit of the NMDA receptor (NMDARA1) Co-localized with D1Rs in a unique population of striatal projection neurons Activates both phosphotidylinositol hydrolysis and the cAMP signal cascade Solute carrier family 1 glial high affinity glutamate transporter member 2, actively removes the excitatory neurotransmitter glutamate from the extracellular space
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DRRF Dopamine receptor regulating factor reduces D1, D2 & D3R expression (Hwang et al. 2001, Lee et al. 2008). Map1b reduces D1, D2 & D3R expression (Hwang et al. 2001, Lee et al. 2008). Map1b reduces D1, D2 & D3R expression (Hwang et al. 2001, Lee et al. 2008).	Mature genes: Adora2a Aqp4 CaMKIIα CaMKIIβ Clk4 D1R D2R DARPP32 Dream Dynorphin Enkephalin Fbx116 Gpr158 Grina NKB NK3R SLC1A2 Slc35d3 S07 S09 Myelination Mag MBP Mobp Mog	Aquaporin 4 Calcium/calmodulin-dependent protein kinase II, alpha subunit Calcium/calmodulin-dependent protein kinase II, beta subunit Cdc2-like kinase 4 Dopamine receptor 1 Dopamine receptor 2 Dopamine and cyclic AMP-regulated phosphoprot Calsenilin, KChIP3 F-box and leucine-rich repeat protein 16 G protein-coupled receptor 158 Glutamate receptor, ionotropic, NMDA-associated Neurokinin B Neurokinin B receptor (NKB-R) Solute carrier family 1 Solute carrier family 35, member D3 D2R/DRRF-like expression pattern myelin-associated glycoprotein Myelin basic protein Myelin associated oligodendrocyte basic protein Myelin oligodendrocyte glycoprotein Proteolipid protein 1	Parallels perfectly the expression pattern of D2Rs Plays a role in recovery from neuronal activation AMPA, NMDA and DA receptor signaling AMPA, NMDA and DA receptor signaling May be involved in the regulation of alternative splicing Critical mediator of dopamine function. The most commonly used MSN marker Binds the dynorphin response element and regulates dynorphin (repressing) expression Co-expressed with D1Rs, binds kappa opioid receptor, exerts inhibitory actions on glutamatergic neurons. Coexpressed with D2Rs, binds delta opioid receptors, provides inhibitory modulation of neurons novel gene, very little info, this gene family is involved in cell proliferation Member of the metabotropic glutamate family of G-protein coupled receptor 3 family Glutamate-binding subunit of the NMDA receptor (NMDARA1) Co-localized with D1Rs in a unique population of striatal projection neurons Activates both phosphotidylinositol hydrolysis and the cAMP signal cascade Solute carrier family 1 glial high affinity glutamate transporter member 2, actively removes the excitatory neurotransmitter glutamate from the extracellular space One of the most strongly striatonigral-specifically expressed genes, used as MSN marker similar to adenylate kinase 5 isoform 1 Rattus norvegicus cDNA clone UI-R-CA1-bli-a-01-0-UI 3' Reduced MBP expression in schizophrenia the third most abundant protein in CNS myelin Can to induce autoimmune encephalomyelitis Primary constituent of myelin, increase in Ppl gene dosage resulted in hypomyelination, astrocytosis & seizures
match to 3'UTR of microtubule-associated protein 1B	Mature genes: Adora2a Aqp4 CaMKIIα CaMKIIβ Clk4 D1R D2R DARPP32 Dream Dynorphin Enkephalin Fbx116 Gpr158 Grina NKB NK3R SLC1A2 Slc35d3 S07 S09 Myelination Mag MBP Mobp Mog Plp1	Aquaporin 4 Calcium/calmodulin-dependent protein kinase II, alpha subunit Calcium/calmodulin-dependent protein kinase II, beta subunit Cdc2-like kinase 4 Dopamine receptor 1 Dopamine receptor 2 Dopamine and cyclic AMP-regulated phosphoprot Calsenilin, KChIP3 F-box and leucine-rich repeat protein 16 G protein-coupled receptor 158 Glutamate receptor, ionotropic, NMDA-associated Neurokinin B Neurokinin B receptor (NKB-R) Solute carrier family 1 Solute carrier family 35, member D3 D2R/DRRF-like expression pattern myelin-associated glycoprotein Myelin basic protein Myelin associated oligodendrocyte basic protein Myelin oligodendrocyte glycoprotein Proteolipid protein 1	Parallels perfectly the expression pattern of D2Rs Plays a role in recovery from neuronal activation AMPA, NMDA and DA receptor signaling AMPA, NMDA and DA receptor signaling May be involved in the regulation of alternative splicing Critical mediator of dopamine function. The most commonly used MSN marker Binds the dynorphin response element and regulates dynorphin (repressing) expression Co-expressed with D1Rs, binds kappa opioid receptor, exerts inhibitory actions on glutamatergic neurons. Coexpressed with D2Rs, binds delta opioid receptors, provides inhibitory modulation of neurons novel gene, very little info, this gene family is involved in cell proliferation Member of the metabotropic glutamate family of G-protein coupled receptor 3 family Glutamate-binding subunit of the NMDA receptor (NMDARA1) Co-localized with D1Rs in a unique population of striatal projection neurons Activates both phosphotidylinositol hydrolysis and the cAMP signal cascade Solute carrier family 1 glial high affinity glutamate transporter member 2, actively removes the excitatory neurotransmitter glutamate from the extracellular space One of the most strongly striatonigral-specifically expressed genes, used as MSN marker similar to adenylate kinase 5 isoform 1 Rattus norvegicus cDNA clone UI-R-CA1-bli-a-01-0-UI 3' Reduced MBP expression in schizophrenia the third most abundant protein in CNS myelin Can to induce autoimmune encephalomyelitis Primary constituent of myelin, increase in Ppl gene dosage resulted in hypomyelination, astrocytosis & seizures
	Mature genes: Adora2a Aqp4 CaMKIIα CaMKIIβ Clk4 D1R D2R DARPP32 Dream Dynorphin Enkephalin Fbxl16 Gpr158 Grina NKB NK3R SLC1A2 Slc35d3 S07 S09 Myelination Mag MBP Mobp Mog Plp1 Tf Transitional	Aquaporin 4 Calcium/calmodulin-dependent protein kinase II, alpha subunit Calcium/calmodulin-dependent protein kinase II, beta subunit Cdc2-like kinase 4 Dopamine receptor 1 Dopamine receptor 2 Dopamine and cyclic AMP-regulated phosphoprot Calsenilin, KChIP3 F-box and leucine-rich repeat protein 16 G protein-coupled receptor 158 Glutamate receptor, ionotropic, NMDA-associated Neurokinin B Neurokinin B receptor (NKB-R) Solute carrier family 1 Solute carrier family 35, member D3 D2R/DRRF-like expression pattern myelin-associated glycoprotein Myelin basic protein Myelin oligodendrocyte glycoprotein Proteolipid protein 1 Transferrin	Parallels perfectly the expression pattern of D2Rs Plays a role in recovery from neuronal activation AMPA, NMDA and DA receptor signaling AMPA, NMDA and DA receptor signaling May be involved in the regulation of alternative splicing Critical mediator of dopamine function. The most commonly used MSN marker Binds the dynorphin response element and regulates dynorphin (repressing) expression Co-expressed with D1Rs, binds kappa opioid receptor, exerts inhibitory actions on glutamatergic neurons. Coexpressed with D2Rs, binds delta opioid receptors, provides inhibitory modulation of neurons novel gene, very little info, this gene family is involved in cell proliferation Member of the metabotropic glutamate family of G-protein coupled receptor 3 family Glutamate-binding subunit of the NMDA receptor (NMDARA1) Co-localized with D1Rs in a unique population of striatal projection neurons Activates both phosphotidylinositol hydrolysis and the cAMP signal cascade Solute carrier family 1 glial high affinity glutamate transporter member 2, actively removes the excitatory neurotransmitter glutamate from the extracellular space One of the most strongly striatonigral-specifically expressed genes, used as MSN marker similar to adenylate kinase 5 isoform 1 Rattus norvegicus cDNA clone UI-R-CA1-bli-a-01-0-UI 3' Reduced MBP expression in schizophrenia the third most abundant protein in CNS myelin Can to induce autoimmune encephalomyelitis Primary constituent of myelin, increase in Ppl gene dosage resulted in hypomyelination, astrocytosis & seizures Involved in oligodendroglial cell differentiation
שואטטנוופנונמו טוטנפווו בטכנוטעבאסטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט	Mature genes: Adora2a Aqp4 CaMKIIα CaMKIIβ Clk4 D1R D2R DARPP32 Dream Dynorphin Enkephalin Fbx116 Ggr158 Grina NKB NK3R SLC1A2 Slc35d3 S07 S09 Myelination Mag MBP Mobp Mog Plp1 Tf Transitional DRRF	Aquaporin 4 Calcium/calmodulin-dependent protein kinase II, alpha subunit Calcium/calmodulin-dependent protein kinase II, beta subunit Cdc2-like kinase 4 Dopamine receptor 1 Dopamine receptor 2 Dopamine and cyclic AMP-regulated phosphoprot Calsenilin, KChIP3 F-box and leucine-rich repeat protein 16 G protein-coupled receptor 158 Glutamate receptor, ionotropic, NMDA-associated Neurokinin B Neurokinin B receptor (NKB-R) Solute carrier family 1 Solute carrier family 35, member D3 D2R/DRRF-like expression pattern myelin-associated glycoprotein Myelin basic protein Myelin oligodendrocyte glycoprotein Proteolipid protein 1 Transferrin	Parallels perfectly the expression pattern of D2Rs Plays a role in recovery from neuronal activation AMPA, NMDA and DA receptor signaling AMPA, NMDA and DA receptor signaling May be involved in the regulation of alternative splicing Critical mediator of dopamine function. The most commonly used MSN marker Binds the dynorphin response element and regulates dynorphin (repressing) expression Co-expressed with D1Rs, binds kappa opioid receptor, exerts inhibitory actions on glutamatergic neurons. Coexpressed with D2Rs, binds delta opioid receptors, provides inhibitory modulation of neurons novel gene, very little info, this gene family is involved in cell proliferation Member of the metabotropic glutamate family of G-protein coupled receptor 3 family Glutamate-binding subunit of the NMDA receptor (NMDARA1) Co-localized with D1Rs in a unique population of striatal projection neurons Activates both phosphotidylinositol hydrolysis and the cAMP signal cascade Solute carrier family 1 glial high affinity glutamate transporter member 2, actively removes the excitatory neurotransmitter glutamate from the extracellular space One of the most strongly striatonigral-specifically expressed genes, used as MSN marker similar to adenylate kinase 5 isoform 1 Rattus norvegicus cDNA clone UI-R-CA1-bli-a-01-0-UI 3' Reduced MBP expression in schizophrenia the third most abundant protein in CNS myelin Can to induce autoimmune encephalomyelitis Primary constituent of myelin, increase in Ppl gene dosage resulted in hypomyelination, astrocytosis & seizures Involved in oligodendroglial cell differentiation