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Product datasheet for SC308892

Dopamine D2 Receptor (DRD2) (NM_016574) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dopamine D2 Receptor (DRD2) (NM_016574) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dopamine D2 Receptor
Synonyms:	D2DR; D2R
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF sequence for NM_016574 edited
GGGCGGCCGCGAATTCGGCACGAGCCGCCCCGCCGCGGCCCGTCCACTGCTCCCCGCGGG
CCAGAGCCGGCCGAGCTGCTGCCCGCCGGGGCTCTGAACGGCGCGGCGGGGCCGGGAGCC
AGGGACCGGCCGAGGAGAGTGGCGGCCCCGGACGGCTGCCGGAGGGGCGGCCGCGCGTGG
ATGCGGCGGGAGCTGGAAGCCTCAAGCAGCCGGCGCCGTCTCTGCCCCGGGGCGCCCTAT
GGCTTGAAGAGCCTGGCCACCCAGTGGCTCCACCGCCCTGATGGATCCACTGAATCTGTC
CTGGTATGATGATGATCTGGAGAGGCAGAACTGGAGCCGGCCCTTCAACGGGTCAGACGG
GAAGGCGGACAGACCCCACTACAACTACTATGCCACACTGCTCACCCTGCTCATCGCTGT
CATCGTCTTCGGCAACGTGCTGGTGTGCATGGCTGTGTCCCGCGAGAAGGCGCTGCAGAC
CACCACCAACTACCTGATCGTCAGCCTCGCAGTGGCCGACCTCCTCGTCGCCACACTGGT
CATGCCCTGGGTTGTCTACCTGGAGGTGGTAGGTGAGTGGAAATTCAGCAGGATTCACTG
TGACATCTTCGTCACTCTGGACGTCATGATGTGCACGGCGAGCATCCTGAACTTGTGTGC
CATCAGCATCGACAGGTACACAGCTGTGGCCATGCCCATGCTGTACAATACGCGCTACAG
CTCCAAGCGCCGGGTCACCGTCATGATCTCCATCGTCTGGGTCCTGTCCTTCACCATCTC
CTGCCCACTCCTCTTCGGACTCAATAACGCAGACCAGAACGAGTGCATCATTGCCAACCC
GGCCTTCGTGGTCTACTCCTCCATCGTCTCCTTCTACGTGCCCTTCATTGTCACCCTGCT
GGTCTACATCAAGATCTACATTGTCCTCCGCAGACGCCGCAAGCGAGTCAACACCAAACG
CAGCAGCCGAGCTTTCAGGGCCCACCTGAGGGCTCCACTAAAGGAGGCTGCCCGGCGAGC
CCAGGAGCTGGAGATGGAGATGCTCTCCAGCACCAGCCCACCCGAGAGGACCCGGTACAG
CCCCATCCCACCCAGCCACCACCAGCTGACTCTCCCCGACCCGTCCCACCACGGTCTCCA
CAGCACTCCCGACAGCCCCGCCAAACCAGAGAAGAATGGGCATGCCAAAGACCACCCCAA
GATTGCCAAGATCTTTGAGATCCAGACCATGCCCAATGGCAAAACCCGGACCTCCCTCAA
GACCATGAGCCGTAGGAAGCTCTCCCAGCAGAAGGAGAAGAAAGCCACTCAGATGCTCGC
CATTGTTCTCGGCGTGTTCATCATCTGCTGGCTGCCCTTCTTCATCACACACATCCTGAA
CATACACTGTGACTGCAACATCCCGCCTGTCCTGTACAGCGCCTTCACGTGGCTGGGCTA
TGTCAACAGCGCCGTGAACCCCATCATCTACACCACCTTCAACATTGAGTTCCGCAAGGC
CTTCCTGAAGATCCTCCACTGCTGACTCTGCTGCCTGCCCGCACAGCAGCCTGCTTCCCA
CCTCCCTGCCCAGGCCAGCCAGCCTCACCCTTGCGAACCGTGAGCAGGAAGGCCTGGGTG
GATCGGCCTCCTCTTCACCCCGGCAGGCCCTGCAGTGTTCGCTTGGCTCCATGCTCCTCA
CTGCCCGCACACCCTCACTCTGCCAGGGCAGTGCTAGTGAGCTGGGCATGGTACCAGCCC
TGGGGCTGGGCCCCCCAGCTCAGGGGCAGCTCATAGAGTCCCCCCTCCCACCTCCAGTCC
CCCTATCCTTGGCACCAAAGATGCAGCCGCCTTCCTTGACCTTCCTCTGGGGCTCTAGGG
TTGCTGGAGCCTGAGTCAGGGCCCAGAGGCTGAGTTTTCTGTTTGTGGGGCTTGGCGTGG
AGCAGGCGGTGGGGAGAGATGGACAGTTCACACCCTGCAAGGCCCACAGGAGGCAAGCAA
GCTCTCTTGCCGAGGAGCCAGGCAACTTCAGTCCTGGGAGACCCATGTAAATACCAGACT
GCAGGTTGGACCCCAGAGATTCCCAAGCCAAAAACCTTAGCTCCCTCCCGCACCCCGATG
TGGACCTCTACTTTCCAGGCTAGTCCGGACCCACCTCACCCCGTTACAGCTCCCCAAGTG
GTTTCCACATGCTCTGAGAAGAGGAGCCCTCATCTTGAAGGGCCCAGGAGGGTCTATGGG
GAGAGGAACTCCTTGGCCTAGCCCACCCTTCTGCCTTCTGACGGCCCTGCAATGTATCCC
TTCTCACAGCACATGCTGGCCAGCCTGGGGCCTGGCAGGGAGGTCAGGCCCTGGAACTCT
ATCTGGGCCTGGGCTAGGGGACATCAGAGGTTCTTTGAGGGACTGCCTCTGCCACACTCT
GACGCAAAACCACTTTCCTTTTCTATTCCTTCTGGCCTTTCCTCTCTCCTGTTTCCCTTC
CCTTCCACTGCCTCTGCCTTAGAGGAGCCCACGGCTAAGAGGCTGCTGAAAACCATCTGG
CCTGGCCTGGCCCTGCCCTGAGGAAGGAGGGGAAGCTGCAGCTTGGGAGAGCCCCTGGGG
CCTAGACTCTGTAACATCACTATCCATGCACCAAACTAATAAAACTTTGACGAGTCACCT
CCAGGAAAAAAAAAAAAAAGGGAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016574 unedited
TTACATCGCCGACCCGTTGTCCCATTGGGCGGTAGGCGTGTGCGGTGGGCAGGTCTATAT
AAGCAGAGCTCGTTTAGTGAACCGTCAGATTTTGTAATACGACTCACTATAGGGCGGCCG
CGAATTCGGCACGAGCCGCCCCGCCGCGGCCCGTCCACTGCTCCCCGCGGGCCAGAGCCG
GCCGAGCTGCTGCCCGCCGGGGCTCTGAACGGCGCGGCGGGGCCGGGAGCCAGGGACCGG
CCGAGGAGAGTGGCGGCCCCGGACGGCTGCCGGAGGGGCGGCCGCGCGTGGATGCGGCGG
GAGCTGGAAGCCTCAAGCAGCCGGCGCCGTCTCTGCCCCGGGGCGCCCTATGGCTTGAAG
AGCCTGGCCACCCAGTGGCTCCACCGCCCTGATGGATCCACTGAATCTGTCCTGGTATGA
TGATGATCTGGAGAGGCAGAACTGGAGCCGGCCCTTCAACGGGTCATACGGGAAGGCGGA
CAGACCCCACTACAACTACTATGCCACACTGCTCACCCTGCTCATCGCTGTCATCGTCTT
CGGCAACGTGCTGGTGTGCATGGCTGTGTCCCGCGAGGAGGCGCTGCAGACCACCACCAA
CTACCTGATCGTCAGCCTCACAGTGGCCGACCTCCTCGTCGCCACACTGGTCATGCCCTG
GGTTGTCTACCTGGAAGTGGTAAGTGAGTGGAAAATCAGCAGCATCACTGTGACATCTTC
ATCACTCCGGGCGTCATGATGTGCACGGGCGAGCCTTCTGAACCTGTGGTGCCATAAGCA
TCGAAGGTACCCAAATGGGGCCCATGCCCACTGCTGGAAATAACTCGCTAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016574 unedited
NTGTTGGTGGCTNCTTCNGATTTTATTAGTTTGGTGCATGGCTAGTGATGTTACAGTAGT
CTAAGGCCCCAGGGGTCTCTCCCAAGCTGCAGCTTCCCCTCCTTCCTCAGGCAGGGCCAG
GCCAGGCCAGATGGTTTTCAGCAGCCTCTTAGCCGTGGGCTCCTCTAAGGCAGAGGCAGT
GGAAGGGAAGGGAAACAGGAGAGAGGAAAGGCCAGAAGGAATAGAAAAGGAAAGTGGTTT
TGCGTCAGAGTGTGGCAGAGGCAGTCCCTCAAAGAACCTCTGATGTCCCCTAGCCCAGGC
CCAGATAGAGTTCCAGGGCCTGACCTCCCTGCCAGGCCCCAGGCTGGCCAGCATGTGCTG
TGAGAAGGGATACATTGCAGGGCCGTCAGAAGGCAGAAGGGTGGGCTAGGCCAAGGAGTT
CCTCTCCCCATAGACCCTCCTGGGCCCTTCAAGATGAGGGCTCCTCTTCTCAGAGCATGT
GGAAACCACTTGGGGAGCTGTAACGGGGTGAGGTGGGTCCGGACTAGCCTGGAAAGTAGA
GGTCCACATCGGGGTGCGGGAGGGAGCTAAGGTTTTTGGCTTGGGAATCTCTGGGGTCCA
ACCTGCAGTCTGGTATTTACATGGGTCTCCCANGACTGAAGTTGCCTGGCTCCTCGGCAA
GAGAGCTTGCTTGCCTCCTGTGGGCCTTGCAAGGTGTGAACTGTCCATCTCTTCCCACCG
CCTGCTTCAAGGCCAGGCCCACAAACAGAAAACTCAGCCTCTTGGGCCCTGACTCCAGCT
CCAGCAACCCCTAGAGCCCCCAAAGGAAGGTCAAGGAAAGGCGGCTTGCTCTTTGGTGCC
CAGGGATAGGGGGACTGGAGGTGGGAAGGGGGGACTTTATAAGCTGCCCCTGGACTGGGG
GGGCCCAGCCCCAGGGCCTGC

Restriction Sites: Please inquire

ACCN: NM_016574

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_016574.2, NP_057658.2
RefSeq Size:	2556 bp
RefSeq ORF:	1245 bp
Locus ID:	1813
UniProt ID:	P14416
Cytogenetics:	11q23.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Gap junction, Neuroactive ligand-receptor interaction
Gene Summary:	This gene encodes the D2 subtype of the dopamine receptor. This G-protein coupled receptor inhibits adenylyl cyclase activity. A missense mutation in this gene causes myoclonus dystonia; other mutations have been associated with schizophrenia. Alternative splicing of this gene results in two transcript variants encoding different isoforms. A third variant has been described, but it has not been determined whether this form is normal or due to aberrant splicing. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (2) lacks an internal exon, as compared to variant 1, but maintains the same reading frame. It encodes an isoform (short), which is 29 aa shorter than isoform long.