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Product datasheet for SC319223

Dopamine D2 Receptor (DRD2) (NM_000795) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dopamine D2 Receptor (DRD2) (NM_000795) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dopamine D2 Receptor
Synonyms:	D2DR; D2R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_000795.2
GGCACGAGGGCGGGAGCTGGAAGCCTCAAGCAGCCGGCGCCGTCTCTGCCCCGGGGCGCC
CTATGGCTTGAAGAGCCTGGCCACCCAGTGGCTCCACCGCCCTGATGGATCCACTGAATC
TGTCCTGGTATGATGATGATCTGGAGAGGCAGAACTGGAGCCGGCCCTTCAACGGGTCAG
ACGGGAAGGCGGACAGACCCCACTACAACTACTATGCCACACTGCTCACCCTGCTCATCG
CTGTCATCGTCTTCGGCAACGTGCTGGTGTGCATGGCTGTGTCCCGCGAGAAGGCGCTGC
AGACCACCACCAACTACCTGATCGTCAGCCTCGCAGTGGCCGACCTCCTCGTCGCCACAC
TGGTCATGCCCTGGGTTGTCTACCTGGAGGTGGTAGGTGAGTGGAAATTCAGCAGGATTC
ACTGTGACATCTTCGTCACTCTGGACGTCATGATGTGCACGGCGAGCATCCTGAACTTGT
GTGCCATCAGCATCGACAGGTACACAGCTGTGGCCATGCCCATGCTGTACAATACGCGCT
ACAGCTCCAAGCGCCGGGTCACCGTCATGATCTCCATCGTCTGGGTCCTGTCCTTCACCA
TCTCCTGCCCACTCCTCTTCGGACTCAATAACGCAGACCAGAACGAGTGCATCATTGCCA
ACCCGGCCTTCGTGGTCTACTCCTCCATCGTCTCCTTCTACGTGCCCTTCATTGTCACCC
TGCTGGTCTACATCAAGATCTACATTGTCCTCCGCAGACGCCGCAAGCGAGTCAACACCA
AACGCAGCAGCCGAGCTTTCAGGGCCCACCTGAGGGCTCCACTAAAGGGCAACTGTACTC
ACCCCGAGGACATGAAACTCTGCACCGTTATCATGAAGTCTAATGGGAGTTTCCCAGTGA
ACAGGCGGAGAGTGGAGGCTGCCCGGCGAGCCCAGGAGCTGGAGATGGAGATGCTCTCCA
GCACCAGCCCACCCGAGAGGACCCGGTACAGCCCCATCCCACCCAGCCACCACCAGCTGA
CTCTCCCCGACCCGTCCCACCATGGTCTCCACAGCACTCCCGACAGCCCCGCCAAACCAG
AGAAGAATGGGCATGCCAAAGACCACCCCAAGATTGCCAAGATCTTTGAGATCCAGACCA
TGCCCAATGGCAAAACCCGGACCTCCCTCAAGACCATGAGCCGTAGGAAGCTCTCCCAGC
AGAAGGAGAAGAAAGCCACTCAGATGCTCGCCATTGTTCTCGGCGTGTTCATCATCTGCT
GGCTGCCCTTCTTCATCACACACATCCTGAACATACACTGTGACTGCAACATCCCGCCTG
TCCTGTACAGCGCCTTCACGTGGCTGGGCTATGTCAACAGCGCCGTGAACCCCATCATCT
ACACCACCTTCAACATTGAGTTCCGCAAGGCCTTCCTGAAGATCCTCCACTGCTGACTCT
GCTGCCTGCCCGCACAGCAGCCTGCTTCCCACCTCCCTGCCCAGGCCGGCCAGCCTCACC
CTTGCGAACCGTGAGCAGGAAGGCCTGGGTGGATCGGCCTCCTCTTCACCCCGGCAGGCC
CTGCAGTGTTCGCTTGGCTCCATGCTCCTCACTGCCCGCACACCCTCACTCTGCCAGGGC
AGTGCTAGTGAGCTGGGCATGGTACCAGCCCTGGGGCTGGGCCCCCCAGCTCAGGGGCAG
CTCATAGAGTCCCCCCTCCCACCTCCAGTCCCCCTATCCTTGGCACCAAAGATGCAGCCG
CCTTCCTTGACCTTCCTCTGGGGCTCTAGGGTTGCTGGAGCCTGAGTCAGGGCCCAGAGG
CTGAGTTTTCTCTTTGTGGGGCTTGGCGTGGAGCAGGCGGTGGGGAGAGATGGACAGTTC
ACACCCTGCAAGGCCCACAGGAGGCAAGCAAGCTCTCTTGCCGAGGAGCCAGGCAACTTC
AGTCCTGGGAGACCCATGTAAATACCAGACTGCAGGTTGGACCCCAGAGATTCCCAAGCC
AAAAACCTTAGCTCCCTCCCGCACCCCGATGTGGACCTCTACTTTCCAGGCTAGTCCGGA
CCCACCTCACCCCGTTACAGCTCCCCAAGTGGTTTCCACATGCTCTGAGAAGAGGAGCCC
TCATCTTGAAGGGCCCAGGAGGGTCTATGGGGAGAGGAACTCCTTGGCCTAGCCCACCCT
GCTGCCTTCTGACGGCCCTGCAATGTATCCCTTCTCACAGCACATGCTGGCCAGCCTGGG
GCCTGGCAGGGAGGTCAGGCCCTGGAACTCTATCTGGGCCTGGGCTAGGGGACATCAGAG
GTTCTTTGAGGGACTGCCTCTGCCACACTCTGACGCAAAACCACTTTCCTTTTCTATTCC
TTCTGGCCTTTCCTCTCTCCTGTTTCCCTTCCCTTCCACTGCCTCTGCCTTAGAGGAGCC
CACGGCTAAGAGGCTGCTGAAAACCATCTGGCCTGGCCTGGCCCTGCCCTGAGGAAGGAG
GGGAAGCTGCAGCTTGGGAGAGCCCCTGGGGCCTAGACTCTGTAACATCACTATCCATGC
ACCAAACTAATAAAACTTTGACGAGTCAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_000795

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_000795.2, NP_000786.1
RefSeq Size:	2643 bp
RefSeq ORF:	1332 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 (1) encodes the longer isoform (long).