

Product datasheet for **SC119696**

Dopamine Receptor D5 (DRD5) (NM_000798) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dopamine Receptor D5 (DRD5) (NM_000798) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dopamine Receptor D5
Synonyms:	DBDR; DRD1B; DRD1L2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_000798 edited
CAGGGCTGAAGTTGGGACCGCGCACAGACCGCCCTGCAGTCCAGCCGAAATGCTGCCG
CCAGGCAGCAACGGCACC CGCTACCCGGGGCAGTTCGCTCTATACCAGCAGCTGGCGCAG
GGGAACGCCGTGGGGGGCTCGGCGGGGGCACCCGCACTGGGGCCCTCACAGGTGGTCACC
GCCTGCCTGCTGACCCTACTCATCTGACCCTGCTGGGAACGTGCTGGTGTGCGCA
GCCATCGTGCGGAGCCGCCACCTGCGCGCAACATGACCAACGTCTTCATCGTGTCTCTG
GCCGTGCAGACCTTTTCGTGGCGCTGCTGGTCATGCCCTGGAAGGCAGTCGCCGAGGTG
GCCGGTTACTGGCCCTTTGGAGCGTTCTGCGACGTCTGGGTGGCCTTCGACATCATGTGC
TCCACTGCCTCCATCCTGAACCTGTGCGTCATCAGCGTGGACCGTACTGGGCCATCTCC
AGGCCCTTCCGCTACAAGCGCAAGATGACTCAGCGCATGGCCTTGGTCATGGTCGGCCTG
GCATGGACCTTGTCCATCCTCATCTCCTTATTCCGGTCCAGCTCAACTGGCACAGGGAC
CAGGGCGCCTCTTGGGGCGGGCTGGACCTGCCAAACAACCTGGCCAACCTGGACGCCCTGG
GAGGAGGACTTTTGGGAGCCCGACGTGAATGCAGAGAAGTGTGACTCCAGCCTGAATCGA
ACCTACGCCATCTTCTCCTCGCTCATCAGCTTCTACATCCCCGTTGCCATCATGATCGTG
ACCTACACGCGCATCTACCGCATCGCCAGGTGCAGATCCGACAGATTTCTCCCTGGAG
AGGGCCGACAGACGCGCAGAGCTGCCGGAGCAGCGCAGCCTGCGCGCCGACACCAGC
CTGCGCGCTTCCATCAAGAAGGAGACCAAGGTTCTCAAGACCCTGTGGTGATCATGGGG
GTCTTCGTGTGTTGCTGGCTGCCCTTCTCATCCTTAACTGCATGGTCCCTTTCTGCAGT
GGACACCTGAAGGCCCTCCGGCCGGCTTCCCCTGCGTCAGTGAGACCACCTTCGACGTC
TTCGTCTGGTTTCGGCTGGGCTAACTCCTCACTCAACCCCGTCATCTATGCCTTCAACGCC
GACTTTTCAAGAAGTGTTCGCCAGCTGCTGGGGTGCAGCCACTTCTGCTCCCGCACGCCG
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AAGGAAATCGCAGCTGCCTACATCCACATGATGCCCAACGCCGTTACCCCGGCAACCGG
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TCCCCAGATGGTGACCCTGTTGCTGAGTCTGTCTGGGAGCTGGACTGCGAGGGGGAGATT
TCTTTAGACAAAATAACACCTTTCACCCCGAATGGATTCCATTAAGTAACTGCATTAAGAAAC
CCCCTCATGGATCTGCATAACCGCACAGACACTGACAAGCACGCACACACAGCAAATAC
ATGCCTTCCAGTGTGCTCCCTTATCATGTGTTTCTGTGTAGTAGCTCGTGTGCTTAG
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GTCAAATGTACCCAGCCTACCAGAGATGGACCAACGATCCTATGAGAGAAGAGATATGG
TGCTGGGTCCCTTAAAAAAAAAATGATACTTGGTCCCTTAAAAAATATGCTCTCCCTCCC
TTTTTAAACAAATGGCTTGTTCAGTCACTTGTGTTGTTGAATTGATTTTTAAACAGCA
GGTTGTGTGTGTGTCAGTGATGTGGTGGGAGCACAGCTTTCCTGGGTCTGGATTCCCGT
GGCTTTGTGCTTATGTCATTTCTTCTCTGTGCTGGTGGGGCCCTTTTACCATAGCTT
AAGAAGTATCCCTGATTTATTCTGGTGTCTAATAAACACAGATTTTGTAAAAAAAAA
AAAAAAAAAAAAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000798 unedited
 GGCAGTTTAGGAATTGTAACGACTTACTATAGGCGGCCGCAATTCGCACGAGGCAGGG
 CTGAAGTTGGGACCGCGCACAGACCGCCCTGCAGTCCAGCCGAAATGCTGCCGCCAGG
 CAGCAACGGCACCGCGTACCCGGGGCAGTTCGCTCTATACCAGCAGCTGGCGCAGGGGAA
 CGCCGTGGGGGGCTCGGCGGGGGCACCGCCACTGGGGCCCTCACAGGTGGTCACCGCCTG
 CCTGCTGACCCCTACTCATCATCTGGACCCTGCTGGCAACGTGCTGGTGTGCGCAGCCAT
 CGTGGGAGCCGCCACCTGCGCGCCAACATGACCAACGTCTTCATCGTGTCTCTGGCCGT
 GTCAGACCTTTTCGTGGCGCTGCTGGTTCATGCCCTGGAAGGCAGTCGCCGAGGTGGCCGG
 TTAAGTGGCCCTTTGGAGCGTTCTGCGACGTCTGGGTGGCCTTCGACATCATGTGCTCCAC
 TGCCCTCCATCCTGAACCTGTGCGTCATCAGCGTGGACCGCTACTGGCCATCTCCAGGCC
 CTTCCGCTACAAGCGCAAGATGACTCAGCGCATGGCCTTGGTCATGGTCGGCCTGGCATG
 GACCTTGCCATCCTCATCTCCTTCAATCCGGTCCAGCTCAACTGGCACAGGGACCAGGC
 GGCCTCTGGGGCGGGCTGGACCTGCCAAACAACCTGGCCAACCTGGACGCCCTGNGAGGA
 GGACTTTTGGGAGCCCGACGTGAATGCAGAGAACTGTGACTCCAGCCTGAATCGAACCTA
 CGCCATCTCTTCTCGCTCATCAGCTTCTACATCCCCGTTGCCATCATGGATCGTGACCT
 ACACGCGCATCTACCGCATCGNCCAGTGCAGATCCGCAGGATTTCTCCCTGGAGAGGG
 CCGCANAGCACGCGCAAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000798 unedited
 TGGGCCAAATGAGACGTGTTTACCATTTCCGGATAAATCAGGCCACTTCTTAAGCTTGGT
 AAAGAGGCCCCACCAGCACAAAGAGAAGAAATGACATAAGCACAAAGCCACGGGAATCC
 AGACCCAGGAAAGCTGTGCTCCACCACATCACTGCACACACACAACCTGCTGTTTAA
 AAATCAATTCAAACACAAACAAGTGACTGAACAAGCCATTTGTTAAAAAGGGAGGGGAG
 AGCATATTTTTTAAAGACCAAGTATCATTTTTTTTTTTTAAAGACCCAGACCATACTTT
 TTTTTTTATAAAGAATCCGTGGGCCACTCTGGGGGGGGCGGGGACACCTTGGCGGGGT
 TTTTTGGGACCGATTTTGGCAATTTTTAAAAAACAACAAAAAGGGGGGGAGGGGTTT
 TAAACCCCGGGTTTTTTTCCAAAAACCCCTTTTTAAAGGGGGGGCCCCCTTTGGAA
 AAAAGTTTTTTTTTTCGCGGGGGGGGGCCCCCTCTAAAAGATTTTTGGCGGGTGAAT
 AAAAAACACCAAGGAGGGGGTTTTTTTCTTCGCGCCTTTTTTGAAGGACCCCCCGG
 CGGGAGAAAAAAGAAAAGTTTTTTTTTATAAAAAAAAAAAAAACCCCCACGGA
 ATACTTCCCCCCCCAAAAATACACCACAAAGGAGGGCGCCCTTGGGGGGGGGG
 GGTGCTTTTTTTTTTAAATCCACGCCCGCCGNNAGGAGGAAAAAAGCACC
 CACTCTATTCTTTTTTATGTTTTATAACACCAACCAAACTCCTGGTGTGGTGGG
 AGGAGGAAAAAGACCACGCATAACCCTCAGAGGGGTGAGTGGGGGGGGCGCGCGGAA
 CCGCGCCCTCTCTT

Restriction Sites:

Please inquire

ACCN:

NM_000798

Insert Size:

2060 bp

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).

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:	<ol style="list-style-type: none">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_000798.3 , NP_000789.1
RefSeq Size:	2053 bp
RefSeq ORF:	1434 bp
Locus ID:	1816
UniProt ID:	P21918
Cytogenetics:	4p16.1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction
Gene Summary:	This gene encodes the D5 subtype of the dopamine receptor. The D5 subtype is a G-protein coupled receptor which stimulates adenylyl cyclase. This receptor is expressed in neurons in the limbic regions of the brain. It has a 10-fold higher affinity for dopamine than the D1 subtype. Pseudogenes related to this gene reside on chromosomes 1 and 2. [provided by RefSeq, Jul 2008]