

Product datasheet for **SC119692**

Dopamine Receptor D1 (DRD1) (NM_000794) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dopamine Receptor D1 (DRD1) (NM_000794) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dopamine Receptor D1
Synonyms:	DADR; DRD1A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119692 sequence for NM_000794 edited (data generated by NextGen Sequencing)

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ATGAGGACTCTGAACACCTCTGCCATGGACGGGACTGGGCTGGTGGTGGAGAGGGACTTC
TCTGTTTCGTATCCTCACTGCCTGTTTCCTGTGCTGCTCATCCTGTCCACGCTCCTGGGG
AACACGCTGGTCTGTGCTGCCGTTATCAGGTTCCGACACCTGCGGTCCAAGGTGACCAAC
TTCTTTTGTATCTCCTTGGCTGTGTCAGATCTCTTGGTGGCCGCTCTGGTCATGCCCTGG
AAGGCAGTGGCTGAGATTGCTGGCTTCTGGCCCTTTGGGTCTCTGTAACATCTGGGTG
GCCTTTGACATCATGTGCTCCACTGCATCCATCCTCAACCTCTGTGTGATCAGCGTGGAC
AGGTATTGGGCTATCTCCAGCCCTTCCGGTATGAGAGAAAGATGACCCCAAGGCAGCC
TTCATCCTGATCAGTGTGGCATGGACCTTGTCTGTACTCATCTCCTTCATCCCAGTGCAG
CTCAGCTGGCACAAGGCAAAACCCACAAGCCCTCTGATGGAAATGCCACTTCCCTGGCT
GAGACCATAGACAACCTGTGACTCCAGCCTCAGCAGGACATATGCCATCTCATCCTCTGTA
ATAAGCTTTTACATCCCTGTGGCCATCATGATTGTACCTACACCAGGATCTACAGGATT
GCTCAGAAACAAATACGGCGCATTGCGGCCTTGGAGAGGGCAGCAGTCCACGCCAAGAAT
TGCCAGACCACCACAGGTAATGGAAAGCCTGTGCAATGTTCTCAACCGGAAAGTTCTTTT
AAGATGTCTTCAAAGAGAAACTAAAGTCTGAAGACTCTGTCCGTGATCATGGGTGTG
TTTGTGTGCTGTTGGCTACCTTTCTTCATCTTGAAGTGCATTTTGCCCTTCTGTGGGTCT
GGGAGACGCAGCCCTTCTGCATTGATTCCAACACCTTTGACGTGTTTGTGTGGTTTGGG
TGGGCTAATTCATCCTTGAACCCCATCATTTATGCCTTTAATGTGATTTTCGGAAGGCA
TTTTCAACCCCTTAGGATGCTACAGACTTTGCCCTGCGACGAATAATGCCATAGAGACG
GTGAGTATCAATAACAATGGGGCCGCGATGTTTCCAGCCATCATGAGCCACGAGGCTCC
ATCTCAAAGGAGTGCAATCTGGTTTACCTGATCCACATGCTGTGGGCTCCTCTGAGGAC
CTGAAAAAGGAGGAGGCAGCTGGCATCGCCAGACCCTTGGAGAAGCTGTCCCCAGCCCTA
TCGGTCATATTGGACTATGACACTGACGTCTCTGTGAGAAGATCCAACCCATCACACAA
AACGGTCAGCACCCAACCTGA
    
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Clone variation with respect to NM_000794.3
1263 a=>g

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000794 unedited

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GCGGCCGCGAATTCGGCACGAGNAGCGGGCAGTGCCTGCGGGGAGGCGGGGCCCTGCT
CTGTAGGGCTGAAGGCCGCCGAGGTTCCGCAAGGCTCTGGGCTCTCGAAAGGAAGCCAA
GAAAAGAAGCTGCCAGGTGACCAGTCTGGGAGTGTCTCTCCCAAGGAAGCTCCGAGC
GCCCAGGAGCCCTTAGCCGGGTCTAGTGCCCTTTGAACAATCTCCAGCTCTTCAAGGAA
GTGGGCCGCCGCCGCTCTTTGGGACCTGGCCTGAGATCCTTTCCCAACGCACCCCG
GCGATTTTTCGCAACCGGAGCCGAACCCCTGCTGCGCGCAGCTGGCTGGGCTCANGCGC
GTTCTCAACGTTTCGAGCCGCTGCCCAGCGAAGTACATTTTCAGCTCAGCGGCTTTG
GCTATGAGAGACACGACCCCAAGGCAGGCGCTTGGAAAAGCTGCTGAAGACCCAGGGGCT
TGAAAGAACAACAAAAACCTGTTTTTCAACTGGATTTAAAAAGGAAAAATCTCCTGTCC
CCCCAAAAAAGCCCCGCCCAAAATGGGTTGGCACTGGCTTACAAAAACGGCCCCCGAG
GGCCCCGGTGGGGGATTTAAAAATTGCCAAAAACCCCGGCTTTTTTGGGGGAATTA
GGGTTTTTGGGGGCCCAAAAAGGCCCTTCCCGGGGGGGCCAAAAACCACTGTTAA
AAAAAAAAGGGCCCCCCCCCGTTGGTTTGGTGGTTGGCCTTAGGGGGCTCTTTTTGG
GATGAGGGGAGGGCGCCCCCGGAGGAAAAAAATTTTTGTATAAAAAATTCCTCTG
GGGGGGGGCGCCCCAAAAAACCCGCCCCCTTCTCTTCTTAATAAAGAGGGG
GGGGGGCCACCACTCCGTTCTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000794 unedited CCCCATTCTGGCTCTCAATGTTTCAGTTCATTGCTTATCAACAGGATACGTTGTAAACAT TTCAAAGAACTCTGTTGAAAGCCCCGAGTTGGCATCTGGCAAGGGAGGCTTATGATACT TTTTACAGTCCGGGTGATGATGCAGGAACCTGATTCCAAAGCACAGCAGAAAGGACTAGC ATTTGTCAAAGAGATGCTGATGGCTTTGGGGGAGCTCAACACACCCAAAGGGAAGGATT CTTCTGTTTCTCCCATCAACAGAAGTATCTGACTCAAGAATGATAATGAGGCACTATTTCG TTAGTTAGTATACCATTAAACATTTAAAGACTCCTTTAAAAATCAGCTCTAAATTCAGATT AAAGCACTATAAAAAGTAGCCCCACTGACTGGTTTGGTTTGACCTGGTAAGATGGAAATG CAGGGTTTGAGTTTGGTCCCTCAGTGGGGCTGCTGTAACCCACTGTCTGTGCTACAGATC TCTCTCCAGGAAAGCCATTTGTGTGGTTCAGAAAACTACCTGACACATGAAATGAGAAA AGATGGAGAGGGCCAATTATTTTACATAAATACAAAGCAGCATATACTTTTCATTACCAC CTAAGATCGTAAATTTAATGCTGGGCTCTTCTTAAGTTGGCTTTTATTTAAGATATTTAC AGAACTGCTAATCCCCTGGGAAAGTCATTTGTCATTTAAACGTTTTGAACACAGTAGT AGCTATACTTTTTTAAATATTTCAAAAACTTTTTCAGAAAAAGAAAGCATTATAGCATT GTCATTCTCACCTTGCATTTATCTGTGTCATGAATTTTAGGCATCATTCAACTTTAT TCCTTTATTTATCAGTTTCTGCTGTGTTTTTCAGAGG
Restriction Sites:	NotI-NotI
ACCN:	NM_000794
Insert Size:	3800 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:	<u>NM_000794.2</u> , <u>NP_000785.1</u>
RefSeq Size:	2776 bp
RefSeq ORF:	1341 bp
Locus ID:	1812
UniProt ID:	<u>P21728</u>
Cytogenetics:	5q35.2
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane

Protein Pathways:

Calcium signaling pathway, Gap junction, Neuroactive ligand-receptor interaction

Gene Summary:

This gene encodes the D1 subtype of the dopamine receptor. The D1 subtype is the most abundant dopamine receptor in the central nervous system. This G-protein coupled receptor stimulates adenylyl cyclase and activates cyclic AMP-dependent protein kinases. D1 receptors regulate neuronal growth and development, mediate some behavioral responses, and modulate dopamine receptor D2-mediated events. Alternate transcription initiation sites result in two transcript variants of this gene. [provided by RefSeq, Jul 2008]