

Product datasheet for **SC124092**

Dopamine Receptor D3 (DRD3) (NM_033663) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dopamine Receptor D3 (DRD3) (NM_033663) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dopamine Receptor D3
Synonyms:	D3DR; ETM1; FET1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_033663, the custom clone sequence may differ by one or more nucleotides

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ATGGCATCTCTGAGCCAGCTGAGTGGCCACCTGAACTACACCTGTGGGGCAGAGAACTCCACAGGTGCCA
GCCAGGCCCGCCACATGCCTACTATGCCCTCTCCTACTGCGCGCTCATCCTGGCCATCGTCTTCGGCAA
TGGCCTGGTGTGCATGGCTGTGCTGAAGGAGCGGGCCCTGCAGACTACCACCAACTACTTAGTAGTGAGC
CTGGCTGTGGCAGACTTGTGGTGGCCACCTTGGTGTGATGCCCTGGGTGGTATACCTGGAGGTGACAGGTG
GAGTCTGGAATTCAGCCGATTTGCTGTGATGTTTTTGTACCCTGGATGTCATGATGTGTACAGCCAG
CATCCTTAATCTCTGTGCCATCAGCATAGACAGGTACACTGCAGTGGTCATGCCCGTTCCTACCAGCAT
GGCAGGGACAGAGCTCCTGTGCGCGCTGGCCCTCATGATCACGGCCGTCTGGGTACTGGCCTTTGCTG
TGTCTGCCCTCTCTGTTGGCTTAATACCACAGGGGACCCCACTGTCTGCTCCATCTCCAACCTGA
TTTTGTACTACTCTTCAAGTGGTGCCTTCTACCTGCCCTTTGGAGTACTGTCTTGTCTATGCCAGA
ATCTATGTGGTGTGCTGAAACAAAGGAGACGGAAAAGGATCCTCACTCGACAGAACAGTCAGTGCAACAGTG
TCAGGCCTGGCTTCCCCAACAAACCCTCTCTCCTGACCCGGCACATCTGGAGCTGAAGCGTTACTACAG
CATCTGCCAGGACACTGCCTTGGGTGGACCAGGCTTCCAAGAAAGAGGAGAGAGTTGAAAAGAGAGGAG
AAGACTCGGAATTCCTGATGCCACTTCGGGAGAAGAAGCAACCCAAATGGTGGCCATTGTGCTTGGGG
CCTTCAATTGTCTGCTGGCTGCCCTTCTTCTTGACCCATGTTCTCAATACCCACTGCCAGACATGCCACGT
GTCCCCAGAGCTTACAGTGCCACGACATGGCTGGGCTACGTGAATAGCGCCCTCAACCCCTGTGATCTAT
ACCACCTTCAATATCGAGTTCGGAAAGCCTTCTCAAGATCCTGTCTTGCTGA

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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_033663 unedited AACGTCGTAATTTGTATACGACTCACTATAGGCGGCCGCCAGTGTGATGGATATCTGCAG AATTTCGGCTTATGGCATCTCTGAGTCAGCTGAGTAGCCACCTGAACTACACCTGTGGGGC AGAGAACTCCACAGGTGCCAGCCAGGCCCGCCACATGCCTACTATGCCCTCTCCTACTG CGCGCTCATCCTGGCCATCGTCTTCGGCAATGGCTGGTGTGCATGGCTGTGCTGAAGGA GGGGCCCTGCAGACTACCACCAACTACTTAGTAGTGAGCCTGGCTGTGGCAGACTTGCT GGTGGCCACCTTGGTGATGCCCTGGGTATACCTGGAGGTGACAGGTGGAGTCTGGAA TTTCAGCCGCATTTGCTGTGATGTTTTTGTACCCTGGATGTCATGATGTGTACAGCCAG CATCCTTAATCTCTGTGCCATCAGCATAGACAGGTACACTGCAAGTGGTCATGCCCGTTCA CTACCAGCATGGCAGGGACAGAGCTCCTGTCGGCGCGTGGCCCTCATGATCACGGCCGT CTGGGTAAGTGGCTTTGCTGTGCTCCTGCCCTTCTGTTTGGCTTAAATACCACAGGGGA CCCCACTGTCTGCTCCATCTCCAACCCTGTTTTGCATCTACTCTTCAGTGGTGCCTTC TACCTGCCCTTTGGAGTGACTGCCTTGTCTATGCCAGAATCTATGTGGTGTGAAACAT AGGAGACGGAAAAGGATCCTCACTCGACAGAACAGTCAGTGCAACAGTGCATGCCTGGC TTCCCCAACAAACCCTCTCCTGACCCGGCACATCTGNAGCTGAAGCGTTACTACAGC ATCTGCCAAGACTGGCTTGGGGTGGACCAGGCTTTCAGAAGAGGAGGAGAGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_033663 unedited AACTTCCAGGCCAGGAGAGGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTT CAGGAAACAGCTATGACCGCGGCCCAATCTAGAGTCGACAAGCTTGATATCGGTACCGA GCTCGGATCCACTAGTAACGGCCCGCAGTGTGCTGGAATTCGGCTTTCAGCAAGACAGGA TCTTGAGGAAGGCTTCCGGAACCGATATTGAAGGTGGTATAGATCACAGGGTTGAGGG CGCTATTCACGTAGCCCAGCCATGTCGTGGCACTGTAAAGCTCTGGGGACACGTGGCATG TCTGGCAGTGGGTATTGAGAACATGGGTCAAGAAGAAGGGCAGCCAGCAGACAATGAAGG CCCCAAGCACAATGGCCACCATTGGGTTGCCTTCTTCTCCCAAGTGGCACTCAGGGAA TTCCGAGTCTTCTCCTCTTTTTCAACTCTCCTCTTCTTCTTGGAAAGCCTGGTCCACCC AAGGCAGTGTCTGGCAGATGCTGTAGTAACGCTTCAGCTCCAGATGTGCCGGGTGAGGA GAGAGGGTTTGTGGGGGAGCCAGGCCTGACACTGTTGCACTGACTGTTCTGTGCGAGTG AGGATCCTTTCCGTCTCCTTTGTTTCAGCACCACATAGATTCTGGCATAGACAAGGACA GTCACTCCAAAGGGCAGGTAGAAGGACACCACTGAAGAGTAGATGACANAACAGGGTTGG AGATGGAGCAGACAGTGGGGTCCCCTGTGGTATTAAAGCCCAACAGAA</p>
Restriction Sites:	Please inquire
ACCN:	NM_033663
Insert Size:	1300 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_033663.2 , NP_387512.2
RefSeq Size:	1398 bp
RefSeq ORF:	1104 bp
Locus ID:	1814
UniProt ID:	P35462
Cytogenetics:	3q13.31
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
Gene Summary:	<p>This gene encodes the D3 subtype of the five (D1-D5) dopamine receptors. The activity of the D3 subtype receptor is mediated by G proteins which inhibit adenylyl cyclase. This receptor is localized to the limbic areas of the brain, which are associated with cognitive, emotional, and endocrine functions. Genetic variation in this gene may be associated with susceptibility to hereditary essential tremor 1. Alternative splicing of this gene results in transcript variants encoding different isoforms, although some variants may be subject to nonsense-mediated decay (NMD). [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (e) has split coding exons at the 3' end compared to the penultimate coding exon of variant a. This results in a shorter isoform (e) missing a 33 aa segment compared to isoform a.</p>