

Product datasheet for **RC237976**

Dopamine Receptor D3 (DRD3) (NM_001282563) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Dopamine Receptor D3 (DRD3) (NM_001282563) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | DRD3 |
| Synonyms: | D3DR; ETM1; FET1 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >RC237976 representing NM_001282563 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCATCTCTGAGCCAGCTGAGTGGCCACCTGAACTACACCTGTGGGCAGAGAACTCCACAGGTGCCA
GCCAGGCCCGCCACATGCCTACTATGCCCTCTCTACTGCGCGCTCATCCTGGCCATCGTCTTCGGCAA
TGGCCTGGTGTGCATGGCTGTGCTGAAGGAGCGGGCCCTGCAGACTACCACAACTACTTAGTAGTGAGC
CTGGCTGTGGCAGACTTGTCTGGTGGCCACCTTGGTGATGCCCTGGGTGGTATACCTGGAGGTGACAGGTG
GAGTCTGGAATTTAGCCGCATTTGCTGTGATGTTTTGTACCCTGGATGTCATGATGTGTACAGCCAG
CATCCTTAATCTCTGTGCCATCAGCATAGACAGGTACACTGCAGTGGTATGCCCGTTCACTACCAGCAT
GGCAGGGACAGAGCTCCTGTGCGCGCTGGCCCTCATGATCACGGCCGTCTGGGTACTGGCCTTTGCTG
TGTCTGCCCTCTTCTGTTTGGCTTTAATACCACAGGGGACCCACTGTCTGCTCCATCTCCAACCTGA
TTTTGTCATCTACTCTTCAGTGGTGTCTTCTACCTGCCCTTTGGAGTGACTGTCCTTGTCTATGCCAGA
ATCTATGTGGTGTGCTGAAACAAAGGAGACGAAAAGGATCCTCACTCGACAGAACAGTCAGTGAACAGTG
TCAGGCCTGGCTTCCCCAACAAACCCTCTCCTGACCCGGCACATCTGGAGCTGAAGCGTTACTACAG
CATCTGCCAGGACACTGCCTTGGGTGGACCAGGCTTCCAAGAAAGAGGAGAGATTGAAAAGAGAGGAG
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GCAGATTATCGACATCTTTGAAGCTGGGGCCCTGCAACCTCGGGGAGTGCCACTTCGGGAGAAGAAGGC
AACCCAAATGGTGGCATTGTGCTTGGGGCCTTATTGTCTGCTGGCTGCCCTTCTTCTGACCCATGTT
CTCAATACCCACTGCCAGACATGCCACGTGTCCCAGAGCTTTACAGTGCCACGACATGGCTGGGCTACG
TGAATAGCGCCCTCAACCCTGTGATCTATACCACCTTCAATATCGAGTTCGGAAAGCCTTCTCAAGAT
CCTGTCTTGC

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ACAAGGATGACGACGATAAGGTTTAA



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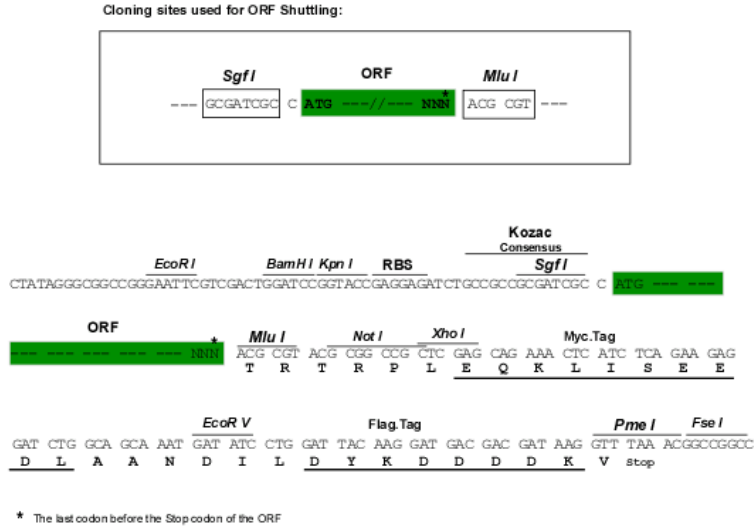
Protein Sequence: >RC237976 representing NM_001282563
 Red=Cloning site Green=Tags(s)

MASLSQLSGHLNYTCGAENSTGASQARPHAYYALSYCALILAIVFGNGLVCMAVLKERALQTTTNYLVVS
 LAVADLLVATLVMPWVVYLEVTGGVWNFSRICCDVFVTLDMVMCTASILNLCAISIDRYTAVVMPVHYQH
 GTGQSSCRRVALMITAVWVLAFAVSCPLLFGFNTTGDPTVCSISNPDFVIYSSVVSFYLPFGVTVLVYAR
 IYVVLKQRRRKRILTRQNSQCNSVRPGFPQQTLSPPDAHLELKRYYSICQDATALGGPGFQERGGELKREE
 KTRNSLSPTIAPKLSLEVRKLSNGRLSTSLKLGPLQPRGVPLREKKATQMVAVLGAIVCWLPPFLTHV
 LNTHCQTHVSPELYSATTWLGYNLSALNPVIYTTFNIEFRKAFLKILSC

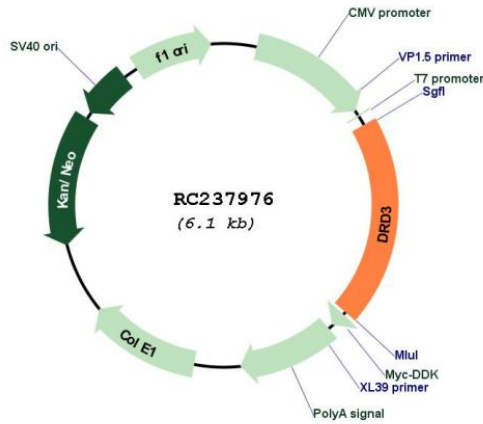
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282563

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| ORF Size: | 1200 bp |
| OTI Disclaimer: | 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| 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_001282563.2 , NP_001269492.1 |
| RefSeq Size: | 1557 bp |
| RefSeq ORF: | 1203 bp |
| Locus ID: | 1814 |
| UniProt ID: | P35462 |
| Cytogenetics: | 3q13.31 |
| Protein Families: | Druggable Genome, GPCR, Transmembrane |
| Protein Pathways: | Neuroactive ligand-receptor interaction |
| MW: | 44.6 kDa |
| Gene Summary: | 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] |