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# Product datasheet for RC223478

## Dopamine Receptor D3 (DRD3) (NM_033663) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Dopamine Receptor D3 (DRD3) (NM_033663) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | Dopamine Receptor D3 |
| **Synonyms:** | D3DR; ETM1; FET1 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RC223478 representing NM_033663
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCATCTCTGAGCCAGCTGAGTAGCCACCTGAACTACACCTGTGGGGCAGAGAACTCCACAGGTGCCA
GCCAGGCCCGCCCACATGCCTACTATGCCCTCTCCTACTGCGCGCTCATCCTGGCCATCGTCTTCGGCAA
TGGCCTGGTGTGCATGGCTGTGCTGAAGGAGCGGGCCCTGCAGACTACCACCAACTACTTAGTAGTGAGC
CTGGCTGTGGCAGACTTGCTGGTGGCCACCTTGGTGATGCCCTGGGTGGTATACCTGGAGGTGACAGGTG
GAGTCTGGAATTTCAGCCGCATTTGCTGTGATGTTTTTGTCACCCTGGATGTCATGATGTGTACAGCCAG
CATCCTTAATCTCTGTGCCATCAGCATAGACAGGTACACTGCAGTGGTCATGCCCGTTCACTACCAGCAT
GGCACGGGACAGAGCTCCTGTCGGCGCGTGGCCCTCATGATCACGGCCGTCTGGGTACTGGCCTTTGCTG
TGTCCTGCCCTCTTCTGTTTGGCTTTAATACCACAGGGGACCCCACTGTCTGCTCCATCTCCAACCCTGA
TTTTGTCATCTACTCTTCAGTGGTGTCCTTCTACCTGCCCTTTGGAGTGACTGTCCTTGTCTATGCCAGA
ATCTATGTGGTGCTGAAACAAAGGAGACGGAAAAGGATCCTCACTCGACAGAACAGTCAGTGCAACAGTG
TCAGGCCTGGCTTCCCCCAACAAACCCTCTCTCCTGACCCGGCACATCTGGAGCTGAAGCGTTACTACAG
CATCTGCCAGGACACTGCCTTGGGTGGACCAGGCTTCCAAGAAAGAGGAGGAGAGTTGAAAAGAGAGGAG
AAGACTCGGAATTCCCTGATGCCACTTCGGGAGAAGAAGGCAACCCAAATGGTGGCCATTGTGCTTGGGG
CCTTCATTGTCTGCTGGCTGCCCTTCTTCTTGACCCATGTTCTCAATACCCACTGCCAGACATGCCACGT
GTCCCCAGAGCTTTACAGTGCCACGACATGGCTGGGCTACGTGAATAGCGCCCTCAACCCTGTGATCTAT
ACCACCTTCAATATCGAGTTCCGGAAAGCCTTCCTCAAGATCCTGTCTTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:**

>RC223478 representing NM_033663
Red=Cloning site Green=Tags(s)

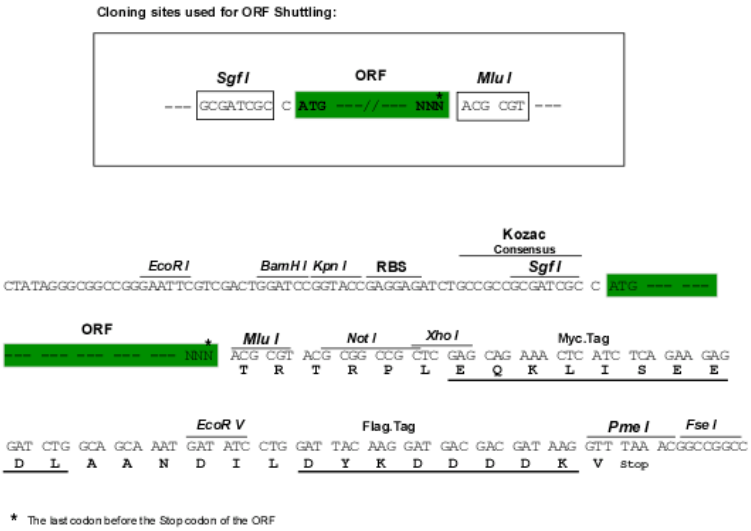
MASLSQLSSHLNYTCGAENSTGASQARPHAYYALSYCALILAIVFGNGLVCMAVLKERALQTTTNYLVVS
LAVADLLVATLVMPWVVYLEVTGGVWNFSRICCDVFVTLDVMMCTASILNLCAISIDRYTAVVMPVHYQH
GTGQSSCRRVALMITAVWVLAFAVSCPLLFGFNTTGDPTVCSISNPDFVIYSSVVSFYLPFGVTVLVYAR
IYVVLKQRRRKRILTRQNSQCNSVRPGFPQQTLSPDPAHLELKRYYSICQDTALGGPGFQERGGELKREE
KTRNSLMPLREKKATQMVAIVLGAFIVCWLPFFLTHVLNTHCQTCHVSPELYSATTWLGYVNSALNPVIY
TTFNIEFRKAFLKILSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk6282_f10.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_033663

**ORF Size:** 1101 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:**
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_033663.5

**RefSeq Size:** 1398 bp

**RefSeq ORF:** 1104 bp

**Locus ID:** 1814

**UniProt ID:** P35462

**Cytogenetics:** 3q13.31

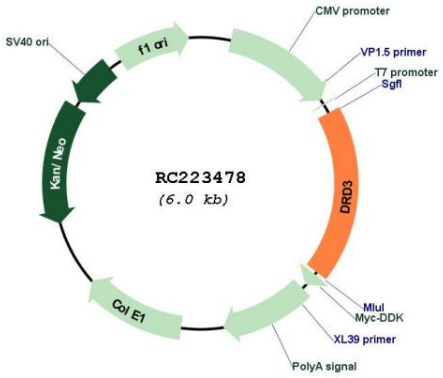
**Protein Families:** Druggable Genome, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

**MW:** 40.5 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]

## Product images:




Circular map for RC223478