

Product datasheet for **RG223426**

Dopamine Receptor D3 (DRD3) (NM_000796) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dopamine Receptor D3 (DRD3) (NM_000796) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dopamine Receptor D3
Synonyms:	D3DR; ETM1; FET1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223426 representing NM_000796 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATCTCTGAGCCAGCTGAGTAGCCACCTGAACTACACCTGTGGGCAGAGAACTCCACAGGTGCCA
GCCAGGCCGCCACATGCCTACTATGCCCTCTCCTACTGCGCGCTCATCCTGGCCATCGTCTTCGGCAA
TGGCCTGGTGTGCATGGCTGTGCTGAAGGAGCGGGCCCTGCAGACTACCACCACTACTTAGTAGTGAGC
CTGGCTGTGGCAGACTTGTGGTGGCCACCTTGGTGATGCCCTGGGTGGTATACCTGGAGGTGACAGGTG
GAGTCTGGAATTCAGCCGATTTGCTGTGATGTTTTGTACCCTGGATGTCATGATGTGTACAGCCAG
CATCCTTAATCTCTGTGCCATCAGCATAGACAGGTACACTGCAGTGGTACATGCCCGTTCACTACCAGCAT
GGCAGGGACAGAGCTCCTGTGCGCGCGTGGCCCTCATGATCACGGCCGTCTGGGTACTGGCCTTTGCTG
TGTCTGCCCTCTTCTGTTGGCTTTAATACCACAGGGGACCCCACTGTCTGCTCCATCTCCAACCTGA
TTTTGTACTACTCTTCAAGTGGTGTCTTCTACCTGCCCTTTGGAGTGACTGTCCTTGTCTATGCCAGA
ATCTATGTGGTGTGAAACAAAGGAGACGAAAAGGATCCTCACTCGACAGAACAGTCAGTGCAACAGTG
TCAGGCCCTGGCTCCCCAACAAACCCTCTCTCCTGACCCGGCACATCTGGAGCTGAAGCGTTACTACAG
AAGACTCGGAATTCCTGAGTCCCACCATAGCGCCCAAGCTCAGCTTAGAAGTTCGAAAACCTCAGCAATG
GCAGATTATCGACATCTTTGAAGCTGGGGCCCTGCAACCTCGGGGAGTGCCACTTCGGGAGAAGAAGGC
AACCCAAATGGTGGCCATTGTGCTTGGGCGCTTATTGTCTGCTGGCTGCCCTTCTTCTGACCCATGTT
CTCAATACCCACTGCCAGACATGCCACGTGCCAGAGCTTTACAGTGCCACGACATGGCTGGGCTACG
TGAATAGCGCCCTCAACCCTGTGATCTATACCACCTTCAATATCGAGTTCGGAAAGCCTTCTCAAGAT
CCTGTCTTGC

ACGGTACGGCGCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >RG223426 representing NM_000796
Red=Cloning site Green=Tags(s)

MASLSQLSSHLNYTCGAENSTGASQARPHAYYALSYCALILAIVFGNGLVCMVAVLKERALQTTTNYLVVS
 LAVADLLVATLVMPWVVYLEVTGGVWNFSRICCDVFVTLDMVMCTASILNLCAISIDRYTAVVMPVHYQH
 GTGQSSCRRVALMITAVWVLAFAVSCPLLFGFNTTGDPTVCSISNPDFVIYSSVVSFYLPFGVTVLVYAR
 IYVVLKQRRRKRILTRQNSQCNSVRPGFPQQTLSPPDAHLELKRYYSICQDATALGGPGFQERGGELKREE
 KTRNSLSPTIAPKLSLEVRKLSNGLRSLKLGPLQPRGVPLREKKATQMVAVLGAIVCWLPPFFLTHV
 LNTHCQTHVSPELYSATTWLGYNLSALNPVIYTTFNIEFRKAFLKILSC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000796

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:

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_000796.2](#), [NP_000787.1](#)

RefSeq Size: 1496 bp

RefSeq ORF: 1203 bp

Locus ID: 1814

UniProt ID: [P35462](#)

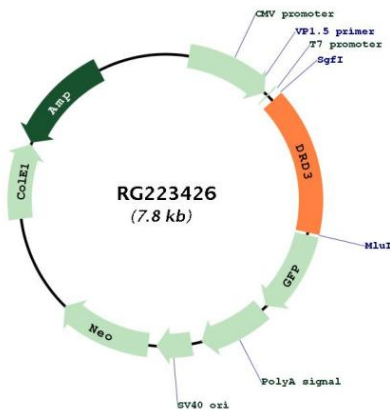
Cytogenetics: 3q13.31

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

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 RG223426