

Product datasheet for **RG202502**

Dopamine Receptor D5 (DRD5) (NM_000798) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dopamine Receptor D5 (DRD5) (NM_000798) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dopamine Receptor D5
Synonyms:	DBDR; DRD1B; DRD1L2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202502 representing NM_000798
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCCGCCAGGCAGCAACGGCACCGGTACCCGGGGCAGTTCGCTCTATACCAGCAGCTGGCGCAGG
 GGAACGCCGTGGGGGGCTCGGCGGGGGCACCGCCACTGGGGCCCTCACAGGTGGTACCAGCCTGCCTGCT
 GACCCTACTCATCATCTGGACCTGCTGGGCAACGTGCTGGTGTGCGCAGCCATCGTGGGAGCCGCCAC
 CTGCGCGCAACATGACCAACGTCTTCATCGTGTCTCTGGCCGTGTGAGACCTTTTCGTGGCGCTGCTGG
 TCATGCCCTGGAAGGCAGTCCGCGAGGTGGCCGGTACTGGCCCTTTGGAGCGTTCTGCGACGTCTGGGT
 GGCCTTCGACATCATGTGCTCCACTGCCTCCATCCTGAACCTGTGCGTCATCAGCGTGGACCGCTACTGG
 GCCATCTCCAGGCCCTCCGCTACAAGCGCAAGATGACTCAGCGCATGGCCTTGGTCATGGTCGGCCTGG
 CATGGACCTTGCCATCCTCATCTCCTTATTCCGGTCCAGCTCAACTGGCACAGGGACCAGGCGGCCCTC
 TTGGGGCGGGCTGGACCTGCCAAACAACCTGGCCAACCTGGACGCCCTGGGAGGAGGACTTTGGGAGCCC
 GACGTGAATGCAGAGAACTGTGACTCCAGCCTGAATCGAACCTACGCCATCTCTTCTCGCTCATCAGCT
 TCTACATCCCCGTTGCCATCATGATCGTGACCTACACGCGCATCTACCGCATCGCCCAGGTGCAGATCCG
 CAGGATTTCTCCCTGGAGAGGGCCGAGAGCACGCGCAGAGCTGCCGGAGCAGCGCAGCCTGCGCGCCC
 GACACCAGCCTGCGCGCTTCCATCAAGAAGGAGACCAAGGTTCTCAAGACCCTGTGCGGTATCATGGGGG
 TCTTCTGTGTGTTGCTGGCTGCCCTTCTTCATCCTTAAGTGCATGGTCCCTTTCTGCGAGTGGACACCTGA
 AGGCCCTCCGGCCGGCTTCCCCTGCGTCAGTGAGACCACCTTCGACGCTCTTCGTCTGGTTCGGCTGGGT
 AACTCCTCACTCAACCCCGTCACTATGCCTTCAACGCCGACTTTCAGAAGGTGTTTGGCCAGCTCACTCGG
 GGTGCAGCCACTTCTGCTCCCGCACGCCGGTGGAGACGGTGAACATCAGCAATGAGCTCACTCCTCAAA
 CCAAGACATCGTCTTCCACAAGGAAATCGCAGCTGCCTACATCCACATGATGCCAACGCCGTTACCCCC
 GGCAACCGGGAGGTGGACAACGACGAGGAGGAGGGTCTTTTCGATCGCATGTTCCAGATCTATCAGACGT
 CCCCAGATGGTGACCCTGTTGCTGAGTCTGTCTGGGAGCTGGACTGCGAGGGGGAGATTTCTTTAGACAA
 AATAACACCTTTCACCCGAATGGATTCCAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG202502 representing NM_000798
 Red=Cloning site Green=Tags(s)

MLPPGSNGTAYPGQFALYQQLAQGNAVGGGAGAPPLGPSQVVTACLLTLLIIWTLGNVLVCAAIVRSRH
 LRAMNTNVFIVSLAVSDFVALLVMPWKAVAIEVAGYWPFGAFCDVWVAFDIMCSTASILNLCVISVDRYW
 AISRPFRYKRKMTQRMALVMVGLAWTLSILISFIPVQLNWHRDQAASWGGDLPNLANWTPWEEDFWEP
 DVNAENDSSLNRTYAISSSLISFYIPVAIMIVTYTRIYRIAQVQIRRISSLERAAEHAQSCRSSAACAP
 DTSLRASIKKETKVLKTLVIMGVFVCCWLPFFILNCMPVFCSGHPEGPPAGFPCVSETTFDVFVWFGWA
 NSSLNPVIYAFNADFQKVFAQLLGCSEHCSRTPVETVNI SNELISYNQDIVFHEIAAAAYIHMPNAVTP
 GNREVDNDEEFGPFDRMFQIYQTS PDGDPVAESVWELDCEGEISL DKITPFPNGFH

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_000798

ORF Size: 1431 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_000798.3](#), [NP_000789.1](#)

RefSeq Size: 2053 bp

RefSeq ORF: 1434 bp

Locus ID: 1816

UniProt ID: [P21918](#)

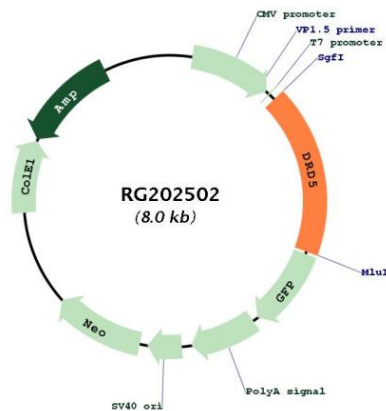
Cytogenetics: 4p16.1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction

Gene Summary: This gene encodes the D5 subtype of the dopamine receptor. The D5 subtype is a G-protein coupled receptor which stimulates adenylyl cyclase. This receptor is expressed in neurons in the limbic regions of the brain. It has a 10-fold higher affinity for dopamine than the D1 subtype. Pseudogenes related to this gene reside on chromosomes 1 and 2. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202502