

Product datasheet for **RG202476**

Dopamine D2 Receptor (DRD2) (NM_000795) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dopamine D2 Receptor (DRD2) (NM_000795) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dopamine D2 Receptor
Synonyms:	D2DR; D2R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202476 representing NM_000795 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCACTGAATCTGTCTGGTATGATGATGATCTGGAGAGGCAGAAGCTGGAGCCGGCCCTTCAACG
GGTCAGACGGGAAGGCGGACAGACCCCACTACAACACTATGCCACACTGCTCACCTGCTCATCGCTGT
CATCGTCTTCGGCAACGTGCTGGTGTGCATGGCTGTGTCCCGGAGAAGGCGCTGCAGACCACCAAC
TACCTGATCGTCAGCCTCGAGTGGCCGACCTCCTCGTCGCCACACTGGTCATGCCCTGGGTTGTCTACC
TGGAGGTGGTAGGTGAGTGGAAATTCAGCAGGATTCAGTGTGACATCTTCGTCACCTCTGGACGTCATGAT
GTGCACGGCAGCATCCTGAACCTGTGTGCCATCAGCATCGACAGGTACACAGCTGTGGCCATGCCCATG
CTGTACAATACGCGCTACAGCTCCAAGCGCCGGTCCACCGTCATGATCTCCATCGTCTGGGTCTGTCTCT
TCACCATCTCCTGCCACTCCTCTTCGGACTCAATAACGCAGACCAGAACGAGTGCATCATTGCCAACCC
GGCCTTCGTGGTCTACTCCTCCATCGTCTCCTTACGTGCCCTTATTGTACCCCTGCTGGTCTACATC
AAGATCTACATTTGTCTCCGAGACGCCGAAGCGAGTCAACACCAACGCAGCAGCCGAGCTTTCAGGG
CCCACCTGAGGGCTCCACTAAAGGGCAACTGTACTCACCCGAGGACATGAACTCTGCACCGTTATCAT
GAAGTCTAATGGGAGTTTCCAGTGAACAGGCGGAGAGTGGAGGCTGCCCGGCGAGCCAGGAGCTGGAG
ATGGAGATGCTCTCCAGCACCAGCCACCCGAGAGGACCCGGTACAGCCCATCCCACCCAGCCACCACC
AGCTGACTCTCCCGACCGTCCACCATGGTCTCCACAGCACTCCCGACAGCCCGCAACACAGAGAA
GAATGGGCATGCCAAAGACCACCCCAAGATTGCCAAGATCTTTGAGATCCAGACCATGCCAATGGCAAA
ACCCGGACCTCCCTCAAGACCATGAGCCGTAGGAAGCTCTCCAGCAGAAGGAGAAGAAAGCCACTCAGA
TGCTCGCCATTGTTCTCGGCGTGTTCATCATCTGCTGGCTGCCCTTCTTCATCACACACATCCTGAACAT
ACACTGTGACTGCAACATCCCGCTGTCTGTACAGCGCCTTACGTGGCTGGGCTATGTCAACAGCGCC
GTGAACCCATCATCTACACCACCTTCAACATTGAGTTCGCAAGGCCTTCTGAAGATCCTCCACTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202476 representing NM_000795
 Red=Cloning site Green=Tags(s)

MDPLNLSWYDDDLERQNSRPFNGSDGKADRPHYNYATLLTLLIAVIVFGNVLVCMASREKALQTTTN
 YLIVSLAVADLLVATLMPWVVYLEVVGWKFRIHCDIFVTLVMMCTASILNLCAISIDRYTAVAMP
 LYNTRYSSKRRVTVMISIVWVLSFTISCPFLFLGLNADQNECIANPAFVYSSIVSFYVPFIVTLLVYI
 KIYIVLRRRRKRVNTRKSSRAFRAPLRAPLKGNCTHPEDMKLCTVIMKSNGSFPVNRVVEARRAQUELE
 MEMLSSTSPPERTRYSPIPPSHHQLTLPDPSHHGLHSTPDSPAKPEKNGHAKDHPKIAKIFEIQTMPNGK
 TRTSLKTSRRKLSQQKEKKATQMLAIVLGVFIICWLPFFITHILNIHDCNIPPVLYSAFTWLGYNVNSA
 VNPIIYTFNIEFRKAFKILHC

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_000795

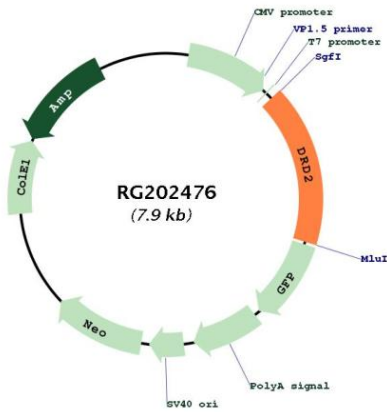
ORF Size: 1329 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_000795.4
RefSeq Size:	2643 bp
RefSeq ORF:	1332 bp
Locus ID:	1813
UniProt ID:	P14416
Cytogenetics:	11q23.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Gap junction, Neuroactive ligand-receptor interaction
Gene Summary:	This gene encodes the D2 subtype of the dopamine receptor. This G-protein coupled receptor inhibits adenylyl cyclase activity. A missense mutation in this gene causes myoclonus dystonia; other mutations have been associated with schizophrenia. Alternative splicing of this gene results in two transcript variants encoding different isoforms. A third variant has been described, but it has not been determined whether this form is normal or due to aberrant splicing. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG202476