

Product datasheet for **RG237977**

Dopamine Receptor D3 (DRD3) (NM_001290809) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dopamine Receptor D3 (DRD3) (NM_001290809) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DRD3
Synonyms:	D3DR; ETM1; FET1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237977 representing NM_001290809. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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GCCAGCATCCTTAATCTCTGTGCCATCAGCATAGACAGGTACACTGCAGTGGTTCATGCCGTTCACTAC
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ACATGGCTGGGCTACGTGAATAGCGCCCTCAACCTGTGATCTATACCACCTTCAATATCGAGTTCGGG
AAAGCCTTCTCAAGATCCTGTCTTGC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237977
 Blue=ORF Red=Cloning site Green=Tag(s)

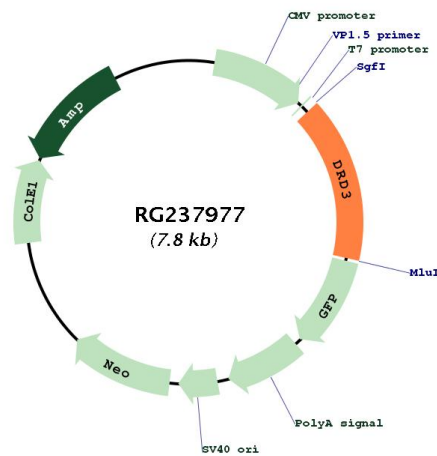
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 SLAVADLLVATLVMPWVVYLEVTGGVWNFSRICCDVFTLDVMMCTASILNLCAISIDRYTAVVMPVHY
 QHGTGQSSCRRVALMITAVWVLAFAVSCPLLFGFNTTGDPTVCSISNPDFVIYSSVVSFYLPGVTVLV
 YARIYVVLKQRRRKRIKLRQNSQCNSVVRPGFPQQTLSPPDAHLELKRYYSICQDTALGGPGFQERGGEL
 KREEKTRNSLSPTIAPKLSLEVRKLSNGRLSTSLKLGPLQPRGVPLREKKATQMVAVLGAFIGVWLPF
 FLTHVLNTHCQTHVSPELYSATTWLGYNLSALNPVIYTTFNIEFRKAFKILSC
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001290809
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).
RefSeq:	NM_001290809.1 , NP_001277738.1
RefSeq Size:	1690 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]