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Product datasheet for RC237977

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:	Myc-DDK
Symbol:	DRD3
Synonyms:	D3DR; ETM1; FET1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237977 representing NM_001290809 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCATCTCTGAGCCAGCTGAGTGGCCACCTGAACTACACCTGTGGGGCAGAGAACTCCACAGGTGCCA GCCAGGCCCGCCCACATGCCTACTATGCCCTCTCCTACTGCGCGCTCATCCTGGCCATCGTCTTCGGCAA TGGCCTGGTGTGCATGGCTGTGCTGAAGGAGCGGGCCCTGCAGACTACCACCAACTACTTAGTAGTGAGC CTGGCTGTGGCAGACTTGCTGGTGGCCACCTTGGTGATGCCCTGGGTGGTATACCTGGAGGTGACAGGTG GAGTCTGGAATTTCAGCCGCATTTGCTGTGATGTTTTTGTCACCCTGGATGTCATGATGTGTACAGCCAG CATCCTTAATCTCTGTGCCATCAGCATAGACAGGTACACTGCAGTGGTCATGCCCGTTCACTACCAGCAT GGCACGGGACAGAGCTCCTGTCGGCGCGTGGCCCTCATGATCACGGCCGTCTGGGTACTGGCCTTTGCTG TGTCCTGCCCTCTTCTGTTTGGCTTTAATACCACAGGGGACCCCACTGTCTGCTCCATCTCCAACCCTGA TTTTGTCATCTACTCTTCAGTGGTGTCCTTCTACCTGCCCTTTGGAGTGACTGTCCTTGTCTATGCCAGA ATCTATGTGGTGCTGAAACAAAGGAGACGGAAAAGGATCCTCACTCGACAGAACAGTCAGTGCAACAGTG TCAGGCCTGGCTTCCCCCAACAAACCCTCTCTCCTGACCCGGCACATCTGGAGCTGAAGCGTTACTACAG CATCTGCCAGGACACTGCCTTGGGTGGACCAGGCTTCCAAGAAAGAGGAGGAGAGTTGAAAAGAGAGGAG AAGACTCGGAATTCCCTGAGTCCCACCATAGCGCCCAAGCTCAGCTTAGAAGTTCGAAAACTCAGCAATG GCAGATTATCGACATCTTTGAAGCTGGGGCCCCTGCAACCTCGGGGAGTGCCACTTCGGGAGAAGAAGGC AACCCAAATGGTGGCCATTGTGCTTGGGGCCTTCATTGTCTGCTGGCTGCCCTTCTTCTTGACCCATGTT CTCAATACCCACTGCCAGACATGCCACGTGTCCCCAGAGCTTTACAGTGCCACGACATGGCTGGGCTACG TGAATAGCGCCCTCAACCCTGTGATCTATACCACCTTCAATATCGAGTTCCGGAAAGCCTTCCTCAAGAT CCTGTCTTGC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

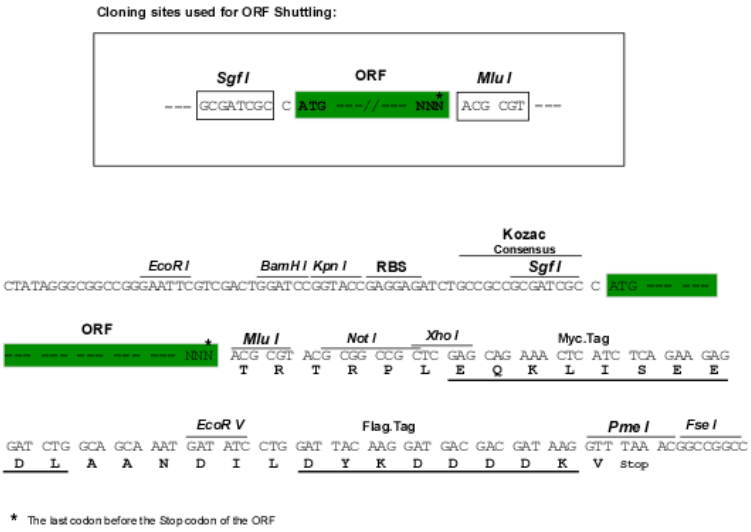
>RC237977 representing NM_001290809
Red=Cloning site Green=Tags(s)

MASLSQLSGHLNYTCGAENSTGASQARPHAYYALSYCALILAIVFGNGLVCMAVLKERALQTTTNYLVVS
LAVADLLVATLVMPWVVYLEVTGGVWNFSRICCDVFVTLDVMMCTASILNLCAISIDRYTAVVMPVHYQH
GTGQSSCRRVALMITAVWVLAFAVSCPLLFGFNTTGDPTVCSISNPDFVIYSSVVSFYLPFGVTVLVYAR
IYVVLKQRRRKRILTRQNSQCNSVRPGFPQQTLSPDPAHLELKRYYSICQDTALGGPGFQERGGELKREE
KTRNSLSPTIAPKLSLEVRKLSNGRLSTSLKLGPLQPRGVPLREKKATQMVAIVLGAFIVCWLPFFLTHV
LNTHCQTCHVSPELYSATTWLGYVNSALNPVIYTTFNIEFRKAFLKILSC

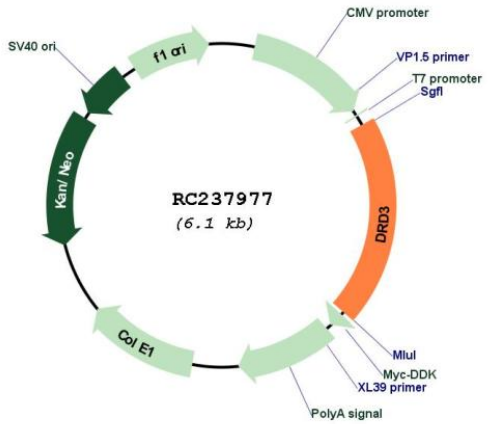
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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).
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_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]