

Product datasheet for RC213065

Dopamine D2 Receptor (DRD2) (NM_016574) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dopamine D2 Receptor (DRD2) (NM_016574) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dopamine D2 Receptor
Synonyms:	D2DR; D2R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213065 representing NM_016574 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGGATCCACTGAATCTGTCTGGTATGATGATGATCTGGAGAGGCAGAAGTGGAGCCGGCCCTTCAACGGGT
CAGACGGGAAGGCGGACAGACCCCACTACAACACTATGCCACACTGCTCACCTGCTCATCGCTGT
CATCGTCTTCGGCAACGTGCTGGTGTGCATGGCTGTGTCCCGGAGAAGGCGCTGCAGACCACCAAC
TACCTGATCGTCAGCCTCGCAGTGGCCGACCTCCTCGTCGCCCACTGGTCATGCCCTGGGTTGTCTACC
TGGAGGTGGTAGGTGAGTGGAAATTCAGCAGGATTCAGTGTGACATCTTCGTCACCTCTGGACGTCATGAT
GTGCACGGCGAGCATCCTGAACTTGTGTGCCATCAGCATCGACAGGTACACAGCTGTGGCCATGCCCATG
CTGTACAATACGCGCTACAGCTCCAAGCGCCGGTCCACCGTCATGATCTCCATCGTCTGGGTCTGTCTCT
TCACCATCTCCTGCCACTCCTCTTCGGACTCAATAACGCAGACCAGAACGAGTGCATCATTGCCAACCC
GGCCTTCGTGGTCTACTCCTCCATCGTCTCCTTACGTGCCCTTATTGTACCCTGCTGGTCTACATC
AAGATCTACATTGTCTCCGAGACGCCGAAGCGAGTCAACACCAACGCAGCAGCCGAGCTTTCAGGG
CCCACCTGAGGGTCCACTAAAGGAGGCTGCCCGGCGAGCCAGGAGCTGGAGATGGAGATGCTCTCCAG
CACCAGCCACCCGAGAGGACCCGGTACAGCCCCATCCCACCCAGCCACCACAGCTGACTCTCCCCGAC
CCGTCCCACACGGTCTCCACAGCACTCCGACAGCCCCGCCAAACCAGAGAAGAAATGGGCATGCCAAAG
ACCACCCCAAGATTGCCAAGATCTTTGAGATCCAGACCATGCCCAATGGCAAACCCGGACCTCCCTCAA
GACCATGAGCCGTAGGAAGCTCTCCAGCAGAAGGAGAAGAAAGCCACTCAGATGCTCGCCATTGTTCTC
GGCGTGTTCATCATCTGTGGCTGCCCTTCTTCATCACACACATCCTGAACATACACTGTGACTGCAACA
TCCCGCTGTCTGTACAGCGCCTTACGTGGCTGGGCTATGTCAACAGCGCCGTGAACCCCATCATCTA
CACCACCTTCAACATTGAGTTCGCAAGGCCTTCTGAAGATCCTCCACTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC213065 representing NM_016574
Red=Cloning site Green=Tags(s)

MDPLNLSWYDDDLERQNWSRPFNGSDGKADRPHYNYATLLTLLIAVIVFGNVLVCMASREKALQTTTN
 YLIVSLAVADLLVATLVMPWVVYLEVVGWKF SRIHCDIFVTL DVMCTASILNLCASIDRYTAVAMP
 LYNTRYSSKRRVTVMISIVWVLSFTISCP LFLGLNNADQNECIANPAFVVYSSIVSFYVPFIVTLLVYI
 KIYIVLRRRRKRVNTRKSSRAFRHLRAPLKEAARRAQELEMESSTSPPERTRYSPIPP SHHQLTLPD
 PSHHGLHSTPDSPAKPEKNGHAKDHPKIAKIFEIQTMPNGKTRTSLK TMSRRKLSQKKEKATQMLAIVL
 GVFIICWLPFFITHILNIHDCNIPPVLYSAFTWLGYN SAVNPIIYTTFNIEFRKAFLKILHC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3402_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016574

ORF Size: 1242 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_016574.3](#)

RefSeq Size: 2556 bp

RefSeq ORF: 1245 bp

Locus ID: 1813

UniProt ID: [P14416](#)

Cytogenetics: 11q23.2

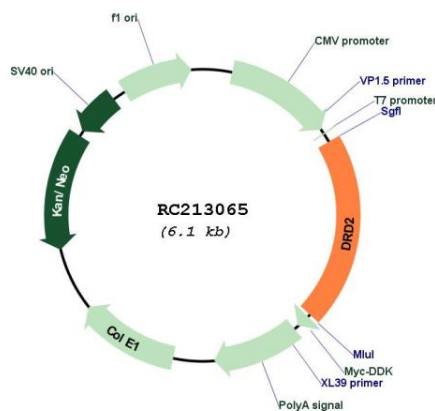
Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Gap junction, Neuroactive ligand-receptor interaction

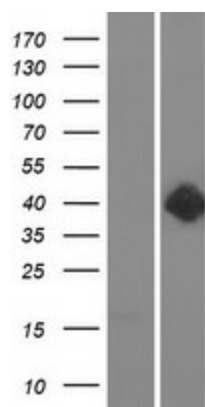
MW: 47.2 kDa

Gene Summary: This gene encodes the D2 subtype of the dopamine receptor. This G-protein coupled receptor inhibits adenyl 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 RC213065



Western blot validation of overexpression lysate (Cat# [LY413896]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213065 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).