

Product datasheet for **MG206050**

Drd4 (NM_007878) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Drd4 (NM_007878) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Drd4 |
| Synonyms: | AW125663; D4R; Drd-4 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG206050 representing NM_007878 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAACAGCAGCGCTACTGAGGACGGTGGGCTGTTGGCCGGGCGTGGGCCAGAATCCCTGGGGACTG
GCGCCGGGCTTGGGGGCGCGGGCGGGCGGCTGGTGGGGGCGTGCTGCTCATCGCTTGGTGTGGC
AGGGAACGCTCGTGTGCGTGAGCGTGGCTCCGAGCGCACGCTGCAGACACCCACCACTACTTCATC
GTGAGCCTGGCTGCTGCCGACCTCCTCCTCGCGGTGCTGGTGTGCTCTCTTTGTCTACTCCGAGGTCC
AGGGTGGCGTGTGGCTCCTGAGCCCCGCTCTGTGACACGCTCATGGCCATGGACGTATGCTGTGCAC
CGCTCCATCTTCAACCTGTGCGCCATCAGCGTGGACAGGTTCTGGCCGTGACCGTGGCCGTGCGCTAC
AACCAGCAGGGTCAAGTCCAGCTGCTGCTCATCGCCGCCACGTGGCTGCTGTCCGCCGCGGTGGTTCGC
CAGTGGTGTGTGGCTCAATGATGTGCCCGGCCGATCCGGCCGTGTGCTGCCTGGAGAACCGAGACTA
TGTGGTCTACTCGTCCGTCTGCTCCTTCTCTGCCCTGTCCGCTCATGCTACTGCTTTACTGGGCCACT
TTCCGCGGCTGCGGGCGTGGGAGGCAGCCCGGCACACAACTTACAGCCGCGCGCCGCGCCGACCCA
GCGGCCCGCCCGCGGTGTGCGACCTACTCAGGGTCCCTTCTCCAGACTGCCACCTCCCTTACC
CAGCCTCCGACGAGCCCCAGCGACTCCAGCAGGCCGAGTCAAGCTCTCTCAGAGACCTGCAGCCCC
GGTGTCTGCTCGTGTGACAGCTCTCCGCAACCTCCTGAGCCGCTTCCCGCAGAAGGAGAGGGCGCCA
AGATCACGGGAAGGAGCGCAAGGCAATGAGAGTCTGCGGGTGTAGTCGGGGCCTTCTGGTGTGTTG
GACGCCTTTCTCGTGGTGCACATCACGCGGGCGCTGTGTCCGGCTTGTCTCGTGTCTCCGCGCCTGGT
AGTGCCGTACCTGGCTAGGCTATGTCAACAGTCCCTCAACCCATCATCTACACCATCTTCAACGCGG
AGTTTCGAAGTGTCTCCGCAAGACTCTCCGTCTCCGCTGC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206050 representing NM_007878
 Red=Cloning site Green=Tags(s)

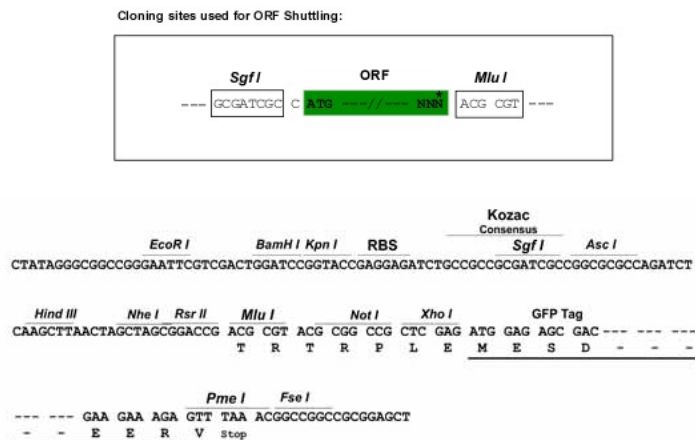
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MGNSSATEDGGLLAGRGPELGTGAGLGGAGAAALVGGVLLIGLVLAGNSLVCVSVASERTLQTPTNYFI
VSLAAADLLLAVLVLPLFVYSEVQGGVWLLSPRLCDTLMAMDVMLCTASIFNLCAISVDRFVAVTVPLRY
NQQGQCQLLLIAATWLLSAAVASPVVCGLNDVPGRDPVCCLENRDYVVVYSSVCSFFLPCPLMLLLYWAT
FRGLRRWEAARHTKLHSRAPRRPSGPGPPVSDPTQGPFFPDCPPPLPSLRTSPSDSSRPESELSQLRQPCSP
GCLLADAALPQPPEPSSRRRRGAKITGRERKAMRVLVYVVGAFVLCWTPFFVHITRALCPACFVSPRLY
SAVTWLGYYNSALNPIIYTFNAEFRSVFRKTLRLRC
    
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007878

ORF Size: 1161 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_007878.3](#)

RefSeq Size: 1366 bp

RefSeq ORF: 1164 bp

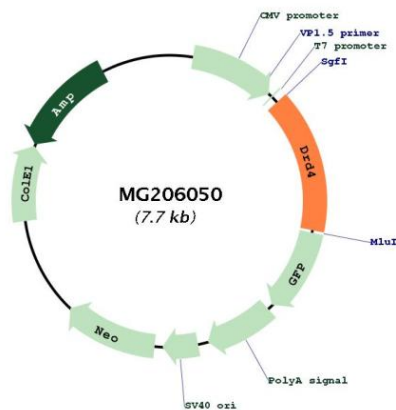
Locus ID: 13491

UniProt ID: [P51436](#)

Cytogenetics: 7 86.6 cM

Gene Summary: Dopamine receptor responsible for neuronal signaling in the mesolimbic system of the brain, an area of the brain that regulates emotion and complex behavior. Activated by dopamine, but also by epinephrine and norepinephrine, and by numerous synthetic agonists and drugs. Agonist binding triggers signaling via G proteins that inhibit adenylyl cyclase (By similarity). Modulates the circadian rhythm of contrast sensitivity by regulating the rhythmic expression of NPAS2 in the retinal ganglion cells (PubMed:24048828).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG206050