

Product datasheet for **RG219275**

Delta Opioid Receptor (OPRD1) (NM_000911) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Delta Opioid Receptor (OPRD1) (NM_000911) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Delta Opioid Receptor
Synonyms:	DOP; DOR; DOR1; OPRD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219275 representing NM_000911 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCGGCCCTCCGCCGGCGCCGAGCTGCAGCCCCGCTCTTCGCCAACGCCTCGGACGCCTACC
CTAGCGCTGCCAGCGCTGGCGCAATGCGTCGGGGCCCGCAGGCGCGGAGCGCCTCGTCCCTCGC
CCTGGCAATCGCCATCACCGCGCTCTACTCGGCCGTGTGCGCCGTGGGGCTGCTGGGCAACGTGCTTGC
ATGTTCCGGCATCGTCCGGTACACTAAGATGAAGACGGCCACCAACATCTACATCTTCAACCTGGCCTTAG
CCGATGCGCTGGCCACCAGCAGCTGCCTTCCAGAGTGCCAAGTACCTGATGGAGACGTGGCCCTTCGG
CGAGCTGCTCTGCAAGGCTGTGCTCTCCATCGACTACTACAATATGTTACCCAGCATCTTACGCTCACC
ATGATGAGTGTTGACCGCTACATCGCTGTCTGCCACCCTGTCAAGGCCCTGGACTTCCGCACGCCTGCCA
AGGCCAAGCTGATCAACATCTGTATCTGGTCTGGCCTCAGGCGTTGGCGTGCCCATCATGGTCATGGC
TGTGACCCGTCCCGGGACGGGGCAGTGGTGTGCATGCTCCAGTTCGCCAGCCAGCTGGTACTGGGAC
ACGGTGACCAAGATCTGCGTGTTCCTCTTCGCCTCGTGGTGCCCATCCTCATCATCACCGTGTGCTATG
GCCTCATGCTGCTGCGCTGCGCAGTGTGCGCTGCTGTGGGCTCCAAGGAGAAGGACCGCAGCCTGCG
GCGCATCACGCGCATGGTGTGGTGGTGTGGGCGCCTTCGTGGTGTGTGGGCGCCATCCACATCTTC
GTCATCGTCTGGACGCTGGTGGACATCGACCGGCGGACCCGCTGGTGGTGGCTGCGCTGCACCTGTGCA
TCGCGCTGGGCTACGCCAATAGCAGCCTCAACCCGCTGCTACGCTTTCCTCGACGAGAAGTCAAGCG
CTGCTTCCGCGAGCTCTGCCGAAGCCCTGCGGGCCCGCCAGACCCAGCAGCTTACGCGCGCCCGCGAA
GCCACGGCCCGGAGCGTGCACCGCTGCACCCGTCGGATGGTCCCGCGGTGGCGCTGCCGCC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219275 representing NM_000911
 Red=Cloning site Green=Tags(s)

MEPAPSAGAE LQPPLFANASDAYPSACPSAGANASGPPGARSASSLALAI AITALYSAVCAVGLLGNLV
 MFGIVRYTKMKTATNIYIFNLALADALATSTLPFQSAKYL METWPFGELLCKAVLSIDYYNMFTSIFTLT
 MMSVDRIYAVCHPVKALDFRTPAKAKLINICIWV LASGVGVPIMVMAVTRPRDGAVVCM LQFPSPSWYWD
 TVTKICVFLFAFVVPIL IITVCYGLMLLR LRSVRLLSGSKEKDRSLRRI TRMVLVVVGAFVVCWAPIHIF
 VIWVTLVDIDRRDPLVVAALHLCIALGYANSSLN PVLVLAFLDENFKRCFRQLCRKPCGRPDPSFSRARE
 ATARERTACTPSDGPGGGAAA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000911

ORF Size: 1116 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_000911.4](#)

RefSeq Size: 1774 bp

RefSeq ORF: 1119 bp

Locus ID: 4985

UniProt ID: [P41143](#)

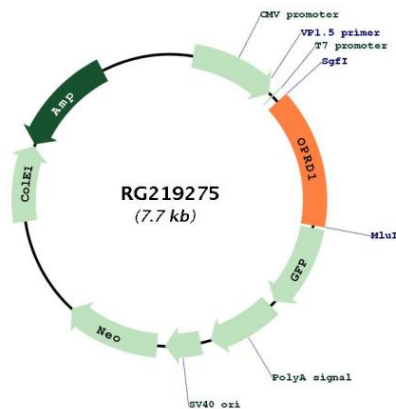
Cytogenetics: 1p35.3

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

Gene Summary: G-protein coupled receptor that functions as receptor for endogenous enkephalins and for a subset of other opioids. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase. Signaling leads to the inhibition of adenylate cyclase activity. Inhibits neurotransmitter release by reducing calcium ion currents and increasing potassium ion conductance. Plays a role in the perception of pain and in opiate-mediated analgesia. Plays a role in developing analgesic tolerance to morphine. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG219275