

Product datasheet for MR226167

Oprd1 (NM_013622) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Oprd1 (NM_013622) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Oprd1
Synonyms: DOR; DOR-1; mDOR; Nbor
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226167 representing NM_013622
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCTGGTGCCTCTGCCCGTGGGAGCTGCAGTCTCGCCCTCGTCAACCTCTCGGACGCCTTTC
 CCAGCGCTTCCCAGCGCGGGCCCAATGCGTCGGGGTTCGCCGGGAGCCCGTAGTGCCTCGTCCCTCGC
 CCTAGCCATCGCCATCACCGCGCTCTACTCGGCTGTGTGCGCAGTGGGGTTCTGGGCAACGTGCTCGTC
 ATGTTTGGCATCGTCCGGTACACCAAATGAAGACCGCCACCAACATCTACATCTCAATCTGGCTTTGG
 CTGATGCGCTGGCCACCAGCAGCTGCCCTCCAGAGCGCAAGTACTTGATGGAACGTGGCCGTTTGG
 CGAGCTGCTGTGCAAGGCTGTGCTCTCCATTGACTACTACAACATGTTCACTAGCATCTTACCCTCACC
 ATGATGAGCGTGGACCGCTACATTGCTGTCTGCCATCCTGTCAAAGCCCTGGACTTCCGGACACCAGCCA
 AGGCCAAGCTGATCAATATATGCATCTGGGTCTTGGCTTCAGGTGTGGGGTCCCATCATGGTCATGGC
 AGTGACCAACCCGGGATGGTGCAGTGGTATGCATGCTCCAGTTCAGTCCCAGTGGTACTGGGAC
 ACTGTGACCAAGATCTGCGTGTCTCTTTGCCTTCGTGGTGGCGATCCTCATCATCACGGTGTGCTATG
 GCCTCATGCTACTGCGCTGCGCAGCGTGCCTGTCTGCTGTCGGTTCAGGAGAAGGACCGCAGCCTGCG
 GCGCATCACGCGCATGGTGTGGTGGTGGTGGCGCCTTCGTGGTGTGCTGGGCGCCATCCACATCTTC
 GTCATCGTCTGGACGCTGGTGGACATCAATCGGCGGACCCACTTGTGGTGGCCGACATGCACCTGTGCA
 TTGCGCTGGGCTACGCCAACAGCAGCCTCAACCCGGTTCTACGCCCTCCTGGACGAGAAGTCAAGCG
 CTGCTTCCGCCAGCTCTGTGCGCAGCCCTGCGGCCGCAAGAACCAGGAGTCTCCGTCGTCGCCGCCAG
 GCCACCACGCGTGAGCGTGTCACTGCCTGCACCCCTCCGACGGCCCGGGCGGTGGCGCTGCCGCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226167 representing NM_013622
Red=Cloning site Green=Tags(s)

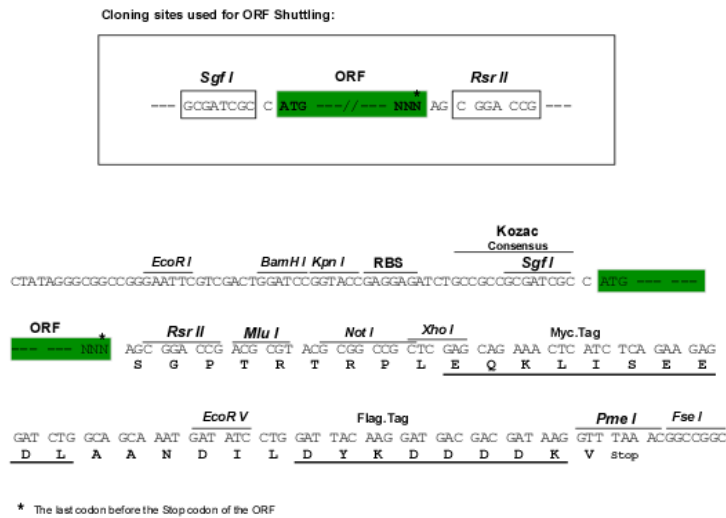
MELVPSARAEIQSSPLVNLSDAFPSAFPSAGANASGSPGARSASSLALAIITALYSAVCAVGLLGNLV
MFGIVRYTKLKTATNIYIFNLALADALATSTLPFQSAKYLMTWPFGELLCKAVLSIDYNNMFTSIFTLT
MMSVDRIYAVCHPVKALDFRTPAKAKLINICIWVLASGVGVPIMVMAVTQPRDGAVVCMQLQFSPSWYWD
TVTKICVFLFAFVVPILIIITVCYGLMLLRLSVRLLSGSKEKDRSLRRITRMVLVVVGAFVVCWAPIHIF
VIWVTLVDINRRDPLVVAALHLCIALGYANSSLNPLYAFLDENFKRCFRQLCRTPCGRQEPGSLRRPRQ
ATTRERTACTPSDGGPGGAAA

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9019_c04.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_013622

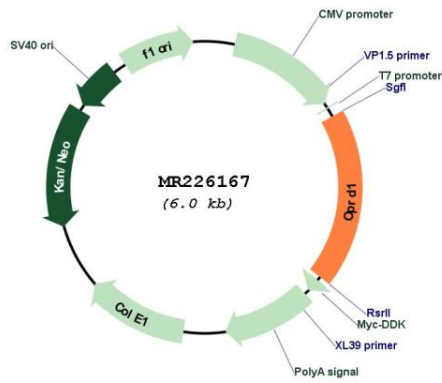
ORF Size: 1116 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none">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_013622.3 , NP_038650.3
RefSeq Size:	4021 bp
RefSeq ORF:	1119 bp
Locus ID:	18386
UniProt ID:	P32300
Cytogenetics:	4 64.78 cM
MW:	41 kDa
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 MR226167