

Product datasheet for MR229253

Oprm1 (NM_001302796) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Oprm1 (NM_001302796) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Oprm1 |
| Synonyms: | m; M-OR-1; MO; MOP-R; mor; MOR-1; MOR-1O; mu; muOR; O; Oprm |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR229253 representing NM_001302796 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGATGGAAGCTTTCTCTAAGTCTGCATTCCAAAAGCTCAGACAGAGAGATGAAATCAAGAGGGGAAGA
GTTACCTCAGATATACAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTGCTCTGGCAGATGC
CTTAGCCACTAGCACGCTGCCCTTTCAGAGTGTTAACTACCTGATGGAACGTGGCCCTTGGAAACATC
CTCTGCAAGATCGTGATCTCAATAGACTACTACAACATGTTACCAGTATCTTCACCCTCTGCACCATGA
GTGTAGACCGCTACATTGCCGTCTGCCACCCGGTCAAGGCCCTGGATTTCCGTACCCCCGAAATGCCAA
AATTGTCAATGTCTGCAACTGGATCCTCTTCTGCCATTGGTCTGCCCGTAATGTTTCATGGCAACCACA
AAATACAGGCAGGGTCCATAGATTGCACCCTCACGTTCTCTCATCCACATGGTACTGGGAGAACCTGC
TCAAAATCTGTCTTTCATCTTCGCCTTCATCATGCCGGTCTCATCACTGTGTGTTATGGACTGAT
GATCTTACGACTCAAGAGTGTCCGATGCTGTCCGGCTCCAAAGAAAAGGACAGGAACCTGCGCAGGATC
ACCCGGATGGTGTGGTGGTCTGATTTTATGCTGCTGGACCCCATCCACATCTATGTATCA
TCAAAGCACTGATCACGATTCAGAAACCACTTCCAGACTGTTTCTGGCACTTCTGCATTGCCTGGG
TTACACAAACAGCTGCCTGAACCCAGTTCTTTATGCGTTCCCTGGATGAAAACCTCAAACGATGTTTTAGA
GAGTTCTGCATCCCAACTTCTCCACAATCGAACAGCAAACTCTGCTCGAATCCGTCAAACACTAGGG
AACACCCCTCCACGGCTAATACAGTGGATCGAACTAACCCAGAGGAATGAGGAACCTTCTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229253 representing NM_001302796
 Red=Cloning site Green=Tags(s)

MMEAFSKSAFQKLRQRDGNQEGKSYLRYTKMKTATNIYIFNLALADALATSTLPFQSVNYLMGTWPFNGI
 LCKIVISIDYYNMFTSIFTLCTMSVDRIYVCHPVKALDFRTPRNAKIVNVCNWILSSAIGLPVMFMATT
 KYRQGSIDCTLTFSHPTWYENLLKICVFIFAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLRI
 TRMVLVVAVFIVCWTPIHIIYVIKALITIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFR
 EFCIPTSSSTIEQQNSARIRQNTREHPSTANTVDRTNHQRNPEPSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001302796

ORF Size: 975 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_001302796.1](#), [NP_001289725.1](#)

RefSeq Size: 2090 bp

RefSeq ORF: 978 bp

Locus ID: 18390

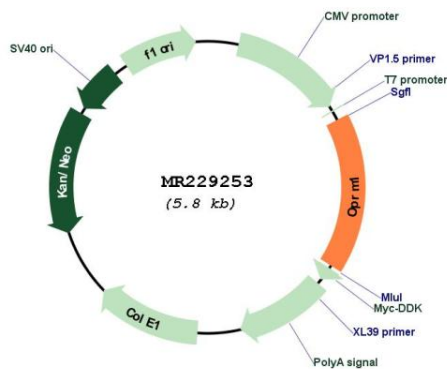
UniProt ID: [P42866](#)

Cytogenetics: 10 1.85 cM

MW: 37.9 kDa

Gene Summary: This gene encodes the mu opioid receptor which is where drugs such as morphine and other opioids have pharmacological effects. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2014]

Product images:



Circular map for MR229253