

Product datasheet for **MC227042**

Oprm1 (NM_001302796) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Oprm1 (NM_001302796) Mouse Untagged Clone
Tag: Tag Free
Symbol: Oprm1
Synonyms: m; M-OR-1; MO; MOP-R; mor; MOR-1; MOR-1O; mu; muOR; O; Oprm
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227042 representing NM_001302796
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGATGGAAGCTTTCTCTAAGTCTGCATTCCAAAAGCTCAGACAGAGAGATGAAATCAAGAGGGGAAGA
 GTTACCTCAGATATACAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTGCTCTGGCAGATGC
 CTTAGCCACTAGCAGCTGCCCTTTCAGAGTGTTAACTACCTGATGGGAACGTGGCCCTTTGAAACATC
 CTCTGCAAGATCGTGATCTCAATAGACTACTACAACATGTTACACAGTATCTTCACCCTCTGCACCATGA
 GTGTAGACCGCTACATTGCCGTCTGCCACCCGGTCAAGGCCCTGGATTTCCGTACCCCCGAAATGCCAA
 AATTGTCAATGTCTGCAACTGGATCCTCTCTTCTGCCATTGGTCTGCCCGTAATGTTTCATGGCAACCACA
 AAATACAGGCAGGGGTCCATAGATTGCACCCTCACGTTCTCTATCCCACATGGTACTGGGAGAACCTGC
 TCAAAATCTGTGTCTTCATCTTCGCCTTCATCATGCCGGTCTCATCATCACTGTGTGTTATGGACTGAT
 GATCTTACGACTCAAGAGTGTCCGATGCTGTCCGGCTCCAAAGAAAAGGACAGGAACCTGCCGAGGATC
 ACCCGGATGGTGTGGTGGTGTGTTATTTATGTCTGTGGACCCCATCCACATCTATGTATCA
 TCAAAGCACTGATCAGATTCCAGAAACCACTTCCAGACTGTTTCCCTGGCACTTCTGCATTGCCCTGGG
 TTACACAAACAGCTGCCTGAACCCAGTTCTTTATGCGTTCTGGATGAAAACCTCAAACGATGTTTTAGA
 GAGTTCTGCATCCCAACTTCTCCACAATCGAACAGAAAACCTCTGCTCGAATCCGTCAAACACTAGGG
 AACACCCCTCCACGGCTAATACAGTGGATCGAACTAACACCAGAGGAATGAGGAACCTTCTTCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001302796
Insert Size: 978 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001302796.1</u> , <u>NP_001289725.1</u>
RefSeq Size:	2090 bp
RefSeq ORF:	978 bp
Locus ID:	18390
UniProt ID:	<u>P42866</u>
Cytogenetics:	10 1.85 cM
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] Transcript Variant: has an alternate exon in place of the 5'-most exon and lacks an alternate 3' coding exon compared to variant MOR-1U. The resulting isoform (MOR-1N) has shorter and distinct N- and C-termini compared to isoform MOR-1U.