

## Product datasheet for **MR226134**

### Oprm1 (NM\_001039652) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Oprm1 (NM_001039652) 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)



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**ORF Nucleotide Sequence:**

>MR226134 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGACAGCAGCGCCGGCCAGGAACATCAGCGACTGCTCTGACCCCTTAGCTCCTGCAAGTTGCTCCC  
 CAGCACCTGGCTCCTGGCTCAACTTGCCACGTTGATGGCAACCAGTCCGACCCATGCGGTCCTAACCG  
 CACGGGGCTTGGCGGGAGCCACAGCCTGTGCCCTCAGACCGCAGCCCTCCATGGTCACAGCCATCACC  
 ATCATGGCCCTCTATTCTATCGTGTGTGTAGTGGGCTCTTTGGAACTCCTGGTCATGTATGTGATTG  
 TAAGATATACAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTGCTCTGGCAGATGCCTTAGC  
 CACTAGCAGCTGCCCTTCAGAGTGTTAACTACCTGATGGGAACGTGGCCCTTTGGAAACATCCTCTGC  
 AAGATCGTGATCTCAATAGACTACTACAACATGTTACCAGTATCTTCACCCTCTGCACCATGAGTGTAG  
 ACCGCTACATTGCCGTCTGCCACCCGGTCAAGGCCCTGGATTTCCGTACCCCCGAAATGCCAAAATTGT  
 CAATGTCTGCAACTGGATCCTCTCTTCTGCCATTGGTCTGCCCGTAATGTTTCATGGCAACCACAAAATAC  
 AGGCAGGGGTCCATAGATTGCACCTCAGTTCTCTCATCCACATGGTACTGGGAGAACCTGCTCAAAA  
 TCTGTGTCTTCATCTTCGCCTTCATCATGCCGGTCTCATCATCACTGTGTGTTATGGACTGATGATCTT  
 ACGACTCAAGAGTGTCCGCATGTGTGGGCTCCAAAGAAAAGGACAGGAACCTGCGCAGGATCACCCGG  
 ATGGTGTGGTGGTGTGGTGTATTTATGTCTGCTGGACCCCATCCACATCTATGTCATCATCAAAG  
 CACTGATCAGGATCCAGAAACCACTTCCAGACTGTTTCTGGCACTTCTGCATTGCCCTGGGTTACAC  
 AAACAGCTGCCTGAACCCAGTTCTTTATGCGTTCCTGGATGAAAACCTTCAAACGATGTTTAGAGAGTTC  
 TGCATCCCAACTCCTCCACAATCGAACAGCAAACTCTGCTCGAATCCGTCAAAACACTAGGGAACACC  
 CCTCCACGGCTAATACAGTGGATCGAATAACCACCAGCCAACCTGGCAGTCAGCGTGGCCAGATCTT  
 TACAGGATATCCTTCTCCGACTCATGTTGAAAAACCCTGCAAGAGTTGCATGGACAGAGGAATGAGGAAC  
 CTCTTCTGATGATGGCCCAAGACAGGAATCCGGGAAGGCCAGCTTGGCAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226134 protein sequence  
 Red=Cloning site Green=Tags(s)

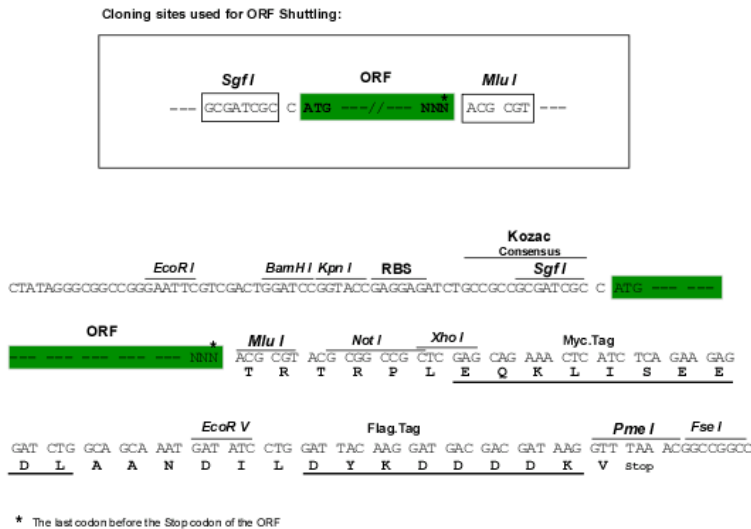
MDSSAGPGNISDCSDPLAPASCSAPAGSWLNLSHVDGNQSDPCGPNRTGLGGSHSLCPQTGSPSMVTAIT  
 IMALYSIVCVVGLFGNFLVMYVIVRYTKMKATNIYIFNLALADALATSTLFPQSVNYLMGTWPFNGILC  
 KIVISIDYNNMFTSIFTLCTMSVDRIYAVCHPVKALDFRTPRNAKIVNVCNWILSSAIGLPVMFMATTKY  
 RQGSIDCTLTFSHPTWYENLLKICVFIKALITIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFREF  
 MVLVVAVFIVCWTPIHIVYIYIKALITIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFREF  
 CIPTSSTIEQONSARIRQNTREHPSTANTVDRTNHQPTLAVSVAQIFTGYPSPTHVEKPKCKSCMDRGMRN  
 LLPDDGPRQESGEGQLGR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



**ACCN:** NM\_001039652

**ORF Size:** 1317 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\\_001039652.2](#), [NP\\_001034741.1](#)

**RefSeq Size:** 2664 bp

**RefSeq ORF:** 1317 bp

**Locus ID:** 18390

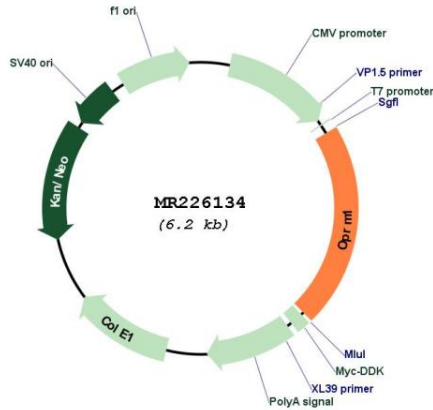
**UniProt ID:** [P42866](#)

**Cytogenetics:** 10 1.85 cM

MW: 48.8 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 MR226134