

## Product datasheet for **RR200407**

### **Oprm1 (NM\_001038601) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Oprm1 (NM_001038601) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oprm1
Synonyms:	MORA; Oprm; Oprm1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR200407 representing NM\_001038601  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGACAGCAGCACCCGGCCAGGGAACACCAGCGACTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCC  
 CAGCACCTGGCTCCTGGCTCAACTGTCCACGTTGATGGCAACCAGTCCGATCCATGCGGTCTGAACCG  
 CACCGGGCTTGGCGGGAACGACAGCCTGTGCCCTCAGACCGCAGCCCTCCATGGTCACAGCCATTACC  
 ATCATGGCCCTCTACTCTATCGTGTGTGTAGTGGGCTCTTCGAAACTCCTGGTCATGTATGTGATTG  
 TAAGATACACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTGCTCTGGCAGACGCCTTAGC  
 GACCAGTACACTGCCCTTCAGAGTGTCAACTACCTGATGGGAACATGGCCCTTCGGAACCATCCTCTGC  
 AAGATCGTGATCTCAATAGATTACTACAACATGTTACCAGCATATTCACCCTCTGCACCATGAGCGTGG  
 ACCGCTACATTGCTGTCTGCCACCCAGTCAAAGCCCTGGATTTCCGTACCCCGAAATGCCAAAATCGT  
 CAACGTCTGCAACTGGATCCTCTCTTCTGCCATCGGTCTGCCTGTAATGTTTCATGGCAACCACAAAATAC  
 AGGCAGGGGTCCATAGATTGCACCTCAGTTCCTCCACCCAACCTGGTACTGGGAGAACCTGCTCAAAA  
 TCTGTGCTTTATCTTCGCTTTCATCATGCCGGTCTCATCATCACTGTGTGTTACGGCCTGATGATCTT  
 ACGACTCAAGAGCGTTCCGATGCTATCGGGCTCCAAAGAAAAGGACAGGAATCTGCGCAGGATCACCCGG  
 ATGGTGTGGTGGTGTGGTGTATTTATCGTCTGCTGGACCCCATCCACATCTACGTCATCATCAAAG  
 CGCTGATCAGGATCCAGAAACCAATTCAGACCGTTTCTGGCACTTCTGCATTGCTTTGGGTTACAC  
 GAACAGCTGCCTGAATCCAGTTCCTTACGCCTTCTGGATGAAAACCTCAAGCGATGCTTCAGAGAGTTC  
 TGCATCCCAACCTCGTCCAGATCGAACAGCAAACTCCACTCGAGTCCGTCAGAACACTAGGGAACATC  
 CCTCCACGGCTAATACAGTGGATCGAACTAACCCAGCCCTGGCAGTCCAGCTGAGCCGATCTT  
 TACAGGATATCCTTCTCCGACTCATGGTGA AAAACCTGCAAGAGTTACAGGGACAGACCTAGACCCTGT  
 GGAAAGACGTGGTCTTTGAAATCGCGTGCAGAATCCAATGTGGAGCACTTCCATTGTGGACCGCATTAA  
 TCTATAACAATGAACTAAAAATAGGGCCAGTGTCTGGCTCCAGATGCCTGCGCACGTGCTCGTGCGCC  
 CTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR200407 representing NM\_001038601  
 Red=Cloning site Green=Tags(s)

MDSSTGPGNTSDCSPLAQASCSPPAGSWLNLSHVDGNQSDPCLNRTGLGGNDSLCPQTGSPSMVTAIT  
 IMALYSIVCVVGLFGNFLVMYVIVRYTKMKATNIYIFNLALADALATSTLPFQSVNYLMGTWPFGTILC  
 KIVISIDYNNMFTSIFTLCTMSVDRIYAVCHPVKALDFRTPRNAKIVNVCNWILSSAIGLPVMFMATTKY  
 RQGSIDCTLTFSHPTWYWENLLKICVFI FAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLRRITR  
 MVLVVAVFIVCWTPIHIVYI I KALITIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFREF  
 CIPTSSTIEQQNSTRVRQNTREHPSTANTVDRTNHQPALAVSVAQIFTGYPSPTHGKPKCSYRDRPRPC  
 GRTWLSKRAESNVEHFHCGAALIYNNELKIGPVSWLQMPAHVLVRPW

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

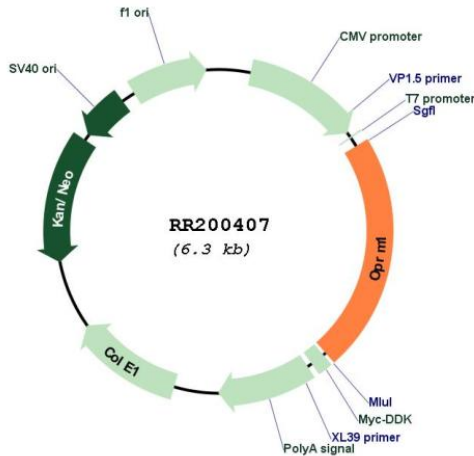
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001038601

ORF Size:

1404 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\\_001038601.2](#), [NP\\_001033690.1](#)

**RefSeq Size:** 1649 bp

**RefSeq ORF:** 1407 bp

**Locus ID:** 25601

**UniProt ID:** [P33535](#)

**Cytogenetics:** 1q11

**MW:** 52.4 kDa

**Gene Summary:** receptor that binds morphine with high affinity [RGD, Feb 2006]