

Product datasheet for **RR200404**

Oprm1 (NM_001038597) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Oprm1 (NM_001038597) 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
ORF Nucleotide Sequence: >RR200404 representing NM_001038597
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACAGCAGCACCGGCCAGGGAACACCAGCGACTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCC
 CAGCACCTGGCTCCTGGCTCAACTGTCCACGTTGATGGCAACCAGTCCGATCCATGCGGTCTGAACCG
 CACCGGGCTTGGCGGGAACGACAGCCTGTGCCCTCAGACCGGCAGCCCTCCATGGTCACAGCCATTACC
 ATCATGGCCCTACTCTATCGTGTGTGTAGTGGCCTCTTCGAAACTCCTGGTCATGTATGTGATTG
 TAAGATACACCAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTGCTCTGGCAGACGCCTTAGC
 GACCAGTACACTGCCCTTTCAGAGTGTCAACTACCTGATGGGAACATGGCCCTTCGGAACCATCCTCTGC
 AAGATCGTGATCTCAATAGATTACTACAACATGTTACCAGCATATTCACCCTCTGCACCATGAGCGTGG
 ACCGCTACATTGCTGTCTGCCACCCAGTCAAAGCCCTGGATTTCCGTACCCCGAAATGCCAAAATCGT
 CAACGTCTGCAACTGGATCCTCTCTTCTGCCATCGGTCTGCCTGTAATGTTTCATGGCAACCACAAAATAC
 AGGCAGGGGTCCATAGATTGCACCCTCAGTTCCTCCACCAACCTGGTACTGGGAGAACCTGCTCAAAA
 TCTGTGCTTTATCTTCGTTTCATCATGCCGGTCCCTCATCACTACTGTGTGTTACGGCCTGATGCTTT
 ACGACTCAAGAGCGTTCGCATGCTATCGGGCTCCAAGAAAAGGACAGGAATCTGCGCAGGATCACCCGG
 ATGGTGTGTTGCTGCTGCTGATTTATCGTCTGCTGGACCCCATCCACATCTACGTCATCATCAAAG
 CGCTGATCACGATTCCAGAAACCACATTTAGACCGTTTCTGGCACTTCTGCATTGCTTTGGGTTACAC
 GAACAGCTGCCTGAATCCAGTCTTTACGCCTTCTGGATGAAAACCTCAAGCGATGCTTCAGAGAGTTC
 TGCATCCCAACCTCGTCCAGATCGAACAGCAAACTCCACTCGAGTCCGTGAGAACACTAGGGAACATC
 CCTCCACGGCTAATACAGTGGATCGAACTAACACCAGGTATGTGCTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR200404 representing NM_001038597
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MDSSTGPGNTSDCDPLAQASCPAPGSWLNLSHVDGNQSDPCGLNRTGLGGNDSLCPQTGSPSMVTAIT
 IMALYSIVCVVGLFGNLFVYVIRYTKMKTATNIYIFNLALADALATSTLPFQSVNYLMGTWPFGTILC
 KIVISIDYNNMFTSIFTLCTMSVDRIYAVCHPVKALDFRTPRNAKIVNVCNWILSSAIGLPVMFMATTKY
 RQGSIDCTLTFSHPTWYWENLLKICVFI FAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLRRITR
 MVLVVAVFIVCWTPIHIVYVIAIKALITIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCRFRE
 CIPTSSTIEQQNSTRVRQNTREHPSTANTVDRTNHQVCAF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

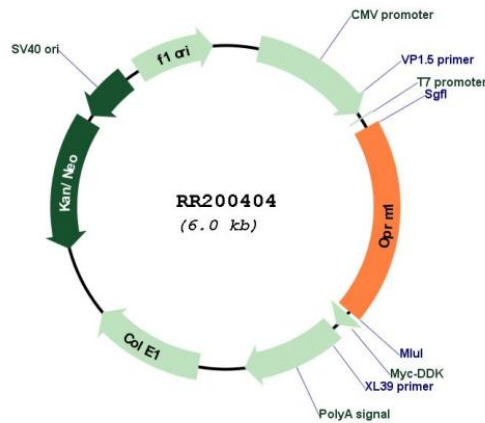
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001038597

ORF Size:	1170 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:	<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_001038597.2 , NP_001033686.1
RefSeq Size:	1467 bp
RefSeq ORF:	1173 bp
Locus ID:	25601
UniProt ID:	P33535
Cytogenetics:	1q11
MW:	43.6 kDa
Gene Summary:	receptor that binds morphine with high affinity [RGD, Feb 2006]