

Product datasheet for **RR200403**

Oprm1 (NM_013071) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Oprm1 (NM_013071) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Oprm1
Synonyms: MORA; Oprm; Oprm1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR200403 representing NM_013071
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACAGCAGCACCGGCCAGGGAACACCAGCGACTGCTCAGACCCCTTAGCTCAGGCAAGTTGCTCCC
 CAGCACCTGGCTCCTGGCTCAACTTGTCCACGTTGATGGCAACCAGTCCGATCCATGCGGTCTGAACCG
 CACCGGGCTTGGCGGGAACGACAGCCTGTGCCCTCAGACCGGCAGCCCTCCATGGTCACAGCCATTACC
 ATCATGGCCCTCTACTCTATCGTGTGTAGTGGCCCTTCGAAACTTCTGGTCATGTATGTGATTG
 TAAGATACACAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTGCTCTGGCAGACGCCTTAGC
 GACCAGTACACTGCCCTTCAGAGTGTCAACTACCTGATGGGAACATGGCCCTTCGGAACCATCCTCTGC
 AAGATCGTGATCTCAATAGATTACTACAACATGTTCAACAGCATATTCACCCCTCTGCACCATGAGCGTGG
 ACCGCTACATTGCTGTCTGCCACCCAGTCAAAGCCCTGGATTTCCGTACCCCGGAAATGCCAAAATCGT
 CAACGTCTGCAACTGGATCCTCTCTTCTGCCATCGGTCTGCCTGTAATGTTTCATGGCAACCACAAAATAC
 AGGCAGGGGTCCATAGATTGCACCCTCACGTTCTCCACCAACCTGGTACTGGGAGAACCTGCTCAAAA
 TCTGTGCTTTATCTTCGCTTTCATCATGCCGGTCTCATCATCACTGTGTGTTACGGCCTGATGATCTT
 ACGACTCAAGAGCGTTCGCATGCTATCGGGCTCCAAAGAAAAGGACAGGAATCTGCGCAGGATCACCCGG
 ATGGTCTGGTGGTCTGGCTGTATTTATCGTCTGCTGGACCCCATCCACATCACTACATCAAAAG
 CGCTGATCACGATTCAGAAAACACATTTAGACCGTTTCTGGCACTTCTGCATTGCTTTGGGTTACAC
 GAACAGCTGCCTGAATCCAGTTCTTTACGCTTCTCGGATGAAAACCTCAAGCGATGCTTCAGAGAGTTC
 TGCATCCAACTCGTCCACGATCGAACAGAAAACCTCCACTCGAGTCCGTGAGAACACTAGGGAACATC
 CCTCCACGGCTAATACAGTGGATCGAACTAACCCAGCTAGAAAATCTGGAGGCAGAACTGCTCCATT
 GCCCGCC

ACGGTACGGCGCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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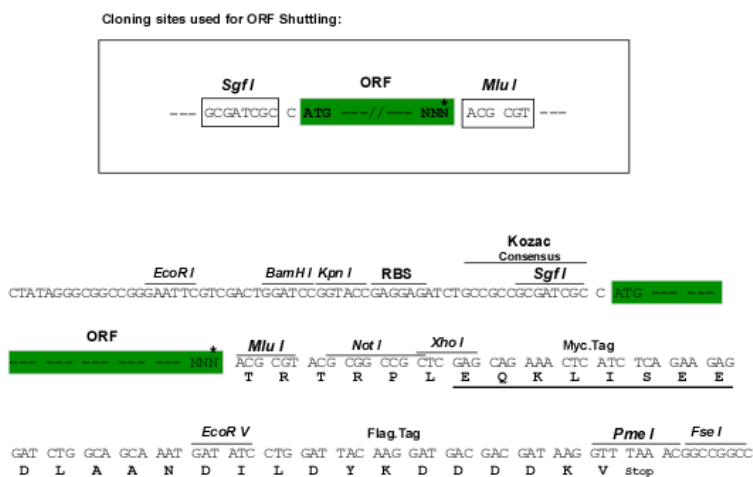
MDSSTGPGNTSDCSPLAQASCSPAGSWLNLSHVDGNQSDPCGLNRTGLGGNSLCPQTGSPSMVTAIT
 IMALYSIVCVVGLFGNFLVMYVIVRYTKMKTATNIYIFNLALADALATSTLPFQSVNYLMGTWPFGTILC
 KIVISIDYYNMFTSIFTLCTMSVDRYIAVCHPVKALDFRTPRNAKIVNVCNWILSSAIGLPVMFMATTKY
 RQGSIDCTLTFSHPTWYENLLKICVFIKAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLRITR
 MVLVVAVFIVCWTPIHIVYIIKALITIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCRFRE
 CIPTSSTIEQQNSTRVRQNTREHPSTANTVDRTNHQLENLEAETAPLPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1636_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_013071

ORF Size: 1194 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_013071.2](#), [NP_037203.1](#)

RefSeq Size: 2306 bp

RefSeq ORF: 1197 bp

Locus ID: 25601

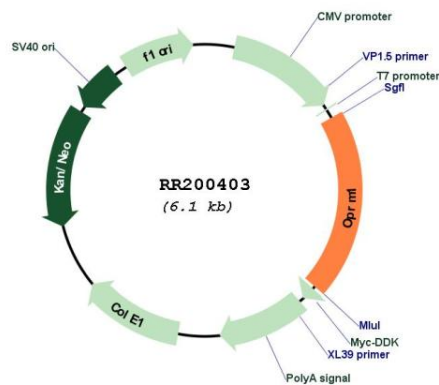
UniProt ID: [P33535](#)

Cytogenetics: 1q11

MW: 44.5 kDa

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

Product images:



Circular map for RR200403