

Product datasheet for RC213992

Mu Opioid Receptor (OPRM1) (NM_001008503) Human Tagged ORF Clone

Product data:

| | |
|--------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Mu Opioid Receptor (OPRM1) (NM_001008503) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | OPRM1 |
| Synonyms: | LMOR; M-OR-1; MOP; MOR; MOR1; OPRM |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| ORF Nucleotide Sequence: | >RC213992 representing NM_001008503 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACAGCAGCGCTGCCCCACGAACGCCAGCAATTGCACTGATGCCTTGGCGTACTCAAGTTGCTCCC
CAGCACCCAGCCCGGTTCTGGGTCAACTTGCCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCC
GAACCGCACCGACTGGGCGGGAGAGACAGCCTGTGCCCTCCGACCGGCAGTCCCTCCATGATCAGGCC
ATCAGGATCATGGCCCTACTCCATCGTGTGCGTGGTGGGGCTCTTCGAAACTTCTGGTTCATGTATG
TGATTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTTGCTCTGGCAGATGC
CTTAGCCACCAAGTACCCTGCCCTTCCAGAGTGTGAATTACCTAATGGGAACATGGCCATTTGGAACCATC
CTTTGCAAGATAGTGATCTCCATAGATTACTATAACATGTTCCACCAGCATATTCACCCTCTGCACCATGA
GTGTTGATCGATACATTGCAGTCTGCCACCCTGTCAAGGCCTTAGATTTCCGTAATGTTTCCGTAACAA
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TGAAGATCTGTGTTTTCATCTTCGCTTTCATTATGCCAGTGTCTCATCATTACCGTGTGCTATGGACTGAT
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ACCAGGATGGTGTGGTGGTGGTGGTGTGTTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATCA
TTAAAGCCTTGGTTACAATCCCAGAAAACGTTCCAGACTGTTTCTTGGCACTTCTGCATTGCTTAGG
TTACACAAACAGCTGCCTCAACCCAGTCTTTATGCATTTCTGGATGAAAACCTCAAACGATGCTTCAGA
GAGTTCTGTATCCCAACCTTCCAAACATTGAGCAACAAAACCTCCACTCGAATTCGTCAGAACACTAGAG
ACCACCCCTCCACGGCAATACAGTGGATAGAATAATCATCAGCCACCCTTGGCAGTCAAGATGGCCCA
GATCTTTACAGATATCCTCCTCCGACTCATCGTGAAGAACTGCAATGATTACATGAAGAGG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC213992 representing NM_001008503
 Red=Cloning site Green=Tags(s)

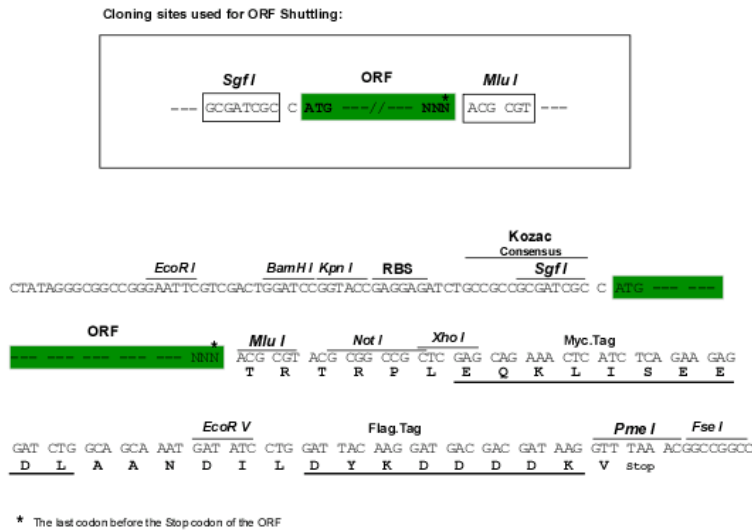
MDSSAAPTNASNCTDALAYSSCSPAPSPGSWVNLSHLDGNLSDPCGPNRTLGGRDLSLCPPTGSPSMITA
 ITIMALYSIVCVVGLFGNFLVMYVIVRYTKMKTATNIYIFNLALADALATSTLPFQSVNYLMGTWPFGTI
 LCKIVISIDYYNMFTSIFTLCTMSVDRIAVCHPVKALDFRTPRNAKIINVCNWILSSAIGLPVMFMATT
 KYRQGSIDCTLTFSHPTWYWENLLKICVFIFAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLRI
 TRMVLVVAVFIVCWTPIHIIYVIKALVTIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFR
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

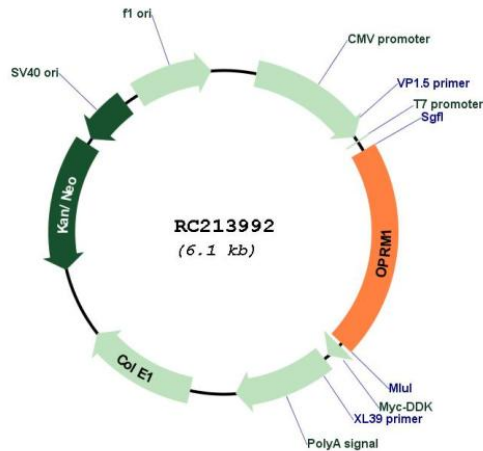
Chromatograms: https://cdn.origene.com/chromatograms/mk8058_d10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



| | |
|-------------------|---|
| ACCN: | NM_001008503 |
| ORF Size: | 1254 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. |
| RefSeq: | NM_001008503.3 |
| RefSeq Size: | 1576 bp |
| RefSeq ORF: | 1257 bp |
| Locus ID: | 4988 |
| Protein Families: | Druggable Genome, GPCR, Transmembrane |
| Protein Pathways: | Neuroactive ligand-receptor interaction |
| MW: | 46.9 kDa |
| Gene Summary: | This gene encodes one of at least three opioid receptors in humans; the mu opioid receptor (MOR). The MOR is the principal target of endogenous opioid peptides and opioid analgesic agents such as beta-endorphin and enkephalins. The MOR also has an important role in dependence to other drugs of abuse, such as nicotine, cocaine, and alcohol via its modulation of the dopamine system. The NM_001008503.2:c.118A>G allele has been associated with opioid and alcohol addiction and variations in pain sensitivity but evidence for it having a causal role is conflicting. Multiple transcript variants encoding different isoforms have been found for this gene. Though the canonical MOR belongs to the superfamily of 7-transmembrane-spanning G-protein-coupled receptors some isoforms of this gene have only 6 transmembrane domains. [provided by RefSeq, Oct 2013] |