

## Product datasheet for MR229283

### Oprm1 (NM\_001302794) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Oprm1 (NM_001302794) 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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229283 representing NM_001302794 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATGGAAGCTTTCTCTAAGTCTGCATTCCAAAAGCTCAGACAGAGAGATGAAATCAAGAGGGGAAGA  
GTTACCTCAGATATACAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTTGCTCTGGCAGATGC  
CTTAGCCACTAGCAGCTGCCCTTTCAGAGTGTTAACTACCTGATGGGAACGTGGCCCTTTGAAACATC  
CTCTGCAAGATCGTGATCTCAATAGACTACTACAACATGTTACACAGTATCTTCACCCTCTGCACCATGA  
GTGTAGACCGCTACATTGCCGTCTGCCACCCGGTCAAGGCCCTGGATTTCCGTACCCCGGAAATGCCAA  
AATTGTCAATGTCTGCAACTGGATCCTCTCTTCTGCCATTGGTCTGCCCGTAATGTTTCATGGCAACCACA  
AAATACAGGCAGGGGTCCATAGATTGCACCCTCACGTTCTCTCATCCACATGGTACTGGGAGAACCCTGC  
TCAAAATCTGTGTCTTCATCTTCGCCTTCATCATGCCGGTCTCATCATCACTGTGTGTTATGGACTGAT  
GATCTTACGACTCAAGAGTGTCCGATGCTGTCCGGCTCCAAAGAAAAGGACAGGAACCTGCCGAGGATC  
ACCCGGATGGTGTGGTGGTGGTGTATTTATTGTCTGTGGACCCCATCCACATCTATGTCAATCA  
TCAAAGCACTGATCAGATTCCAGAAACCACTTCCAGACTGTTTCTGGCACTTCTGCATTGCCCTGGG  
TTACACAAACAGCTGCCTGAACCCAGTTCTTTATGCGTTCTGGATGAAAACCTCAAACGATGTTTTAGA  
GAGTTCTGCATCCCAACTTCTCCACAATCGAACAGAAAACCTCTGCTCGAATCCGTCAAACACTAGGG  
AACACCCCTCCACGGCTAATACAGTGGATCGAACTAACACCAGCTAGAAAATCTGGAAGCAGAACTGC  
TCCATTGCC

**ACGGT**ACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229283 representing NM\_001302794  
Red=Cloning site Green=Tags(s)

MMEAFSKSAFQKLQRDGNQEGKSYLRYTKMKATNIIYIFNLALADALATSTLPFQSVNYLMGTWPFNGI  
 LCKIVISIDYYNMFTSIFTLCTMSVDRIYVCHPVKALDFRTPRNAKIVNVCNWILSSAIGLPVMFMATT  
 KYRQGSIDCTLTFSHPTWYENLLKICVFIKAFIMPVLIITVTCYGLMILRLKSVRMLSGSKEKDRNLRI  
 TRMVLVVAVFIVCWTPIHIIYVIKALITIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFR  
 EFCIPTSSSTIEQQNSARIRQNTREHPSTANTVDRTNHQLENLEAETAPLP

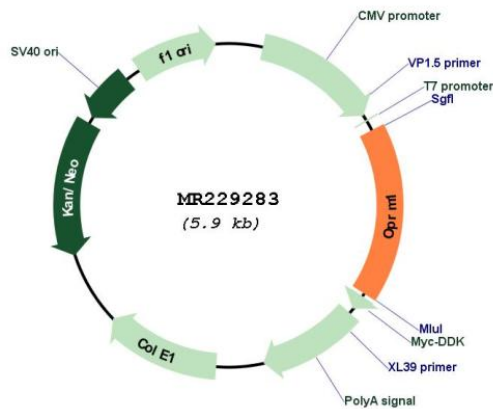
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001302794

**ORF Size:** 990 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001302794.1</a> , <a href="#">NP_001289723.1</a>
<b>RefSeq Size:</b>	1739 bp
<b>RefSeq ORF:</b>	993 bp
<b>Locus ID:</b>	18390
<b>UniProt ID:</b>	<a href="#">P42866</a>
<b>Cytogenetics:</b>	10 1.85 cM
<b>MW:</b>	38.4 kDa
<b>Gene Summary:</b>	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]