

## Product datasheet for **MG226134**

### Oprm1 (NM\_001039652) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Oprm1 (NM_001039652) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Oprm1
Synonyms:	m; M-OR-1; MO; MOP-R; mor; MOR-1; MOR-1O; mu; muOR; O; Oprm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226134 representing NM_001039652 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACAGCAGCGCCGGCCAGGAACATCAGCGACTGCTCTGACCCCTTAGCTCCTGCAAGTTGCTCCC  
CAGCACCTGGCTCCTGGCTCACTTGTCCACGTTGATGGCAACCAGTCCGACCCATGCGGTCTAAACCG  
CACGGGGCTTGGCGGGAGCCACAGCCTGTGCCCTCAGACCGGCAGCCCTCCATGGTCACAGCCATCACC  
ATCATGGCCCTCTATTCTATCGTGTGTAGTGGCCTCTTTGAAACTCCTGGTCATGTATGTGATTG  
TAAGATATACAAAATGAAGACTGCCACCAACATCTACATTTTCAACCTGCTCTGGCAGATGCCTTAGC  
CACTAGCAGCTGCCCTTTCAGAGTGTTAACTACCTGATGGAACTGGCCCTTTGGAAACATCCTCTGC  
AAGATCGTGATCTCAATAGACTACTACAACATGTTCAACAGTATCTTCAACCTCTGCACCATGAGTGAG  
ACCGCTACATTGCCGTCTGCCACCCGGTCAAGGCCCTGGATTTCCGTACCCCGGAAATGCCAAAATTGT  
CAATGTCTGCAACTGGATCCTCTCTTCTGCCATTGGTCTGCCGTAATGTTTCATGGCAACCACAAAATAC  
AGGCAGGGGTCCATAGATTGCACCCTCACGTTCTCTCATCCCACATGGTACTGGGAGAACCTGCTCAAAA  
TCTGTGCTTTCATCTTCGCTTCATCATGCCGGTCTCATCATCACTGTGTGTTATGGACTGATGATCTT  
ACGACTCAAGAGTGTCCGCATGCTGTCCGGCTCCAAAGAAAAGGACAGGAACCTGCGCAGGATCACCCGG  
ATGGTCTGGTGGTCTGGCTGTATTTATGTCTGCTGGACCCCATCCACATCATGTATGTCATCAAAAG  
CACTGATCACGATTCAGAAAACCACTTTCCAGACTGTTTCTGGCACTTCTGCATTGCCTTGGGTTACAC  
AAACAGCTGCCTGAACCCAGTTCTTTATGCGTTCTGGATGAAAACCTTCAAACGATGTTTTAGAGAGTTC  
TGCATCCCAACTTCTCCACAATCGAACAGAAAACCTCTGCTCGAATCCGTCAAACACTAGGGAACACC  
CCTCCACGGCTAATACAGTGGATCGAACTAACCACCAGCCAACCTGGCAGTCAGCGTGGCCAGATCTT  
TACAGGATATCCTTCTCCGACTCATGTTGAAAACCTGCAAGAGTTGCATGGACAGAGGAATGAGGAAC  
CTTCTTCTGATGATGGCCCAAGACAGGAATCCGGGAAGGCCAGCTTGGCAGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG226134 representing NM\_001039652  
 Red=Cloning site Green=Tags(s)

MDSSAGPGNISDCSDPLAPASCSAPAGSWLNLSHVDGNQSDPCGPNRTGLGGSHSLCPQTGSPSMVTAIT  
 IMALYSIVCVVGLFGNLFVYVIVRYTKMKTATNIYIFNLALADALATSTLFPQSVNYLMGTWPFGNILC  
 KIVISIDYNNMFTSIFTLCTMSVDRYIAVCHPVKALDFRTPRNAKIVNVCNWILSSAIGLPVMFMATTKY  
 RQGSIDCTLTFSHPTWYWENLLKICVFIKAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLRRITR  
 MVLVVAVFIVCWTPIHIVYVIAKALITIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFREF  
 CIPTSSTIEQQNSARIRQNTREHPSTANTVDRTNHQPTLAVSVAQIFTGYSPSPHVEKPKCKSCMDRGMRN  
 LLPDDGPRQESGEGQLGR

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001039652

**ORF Size:** 1314 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\\_001039652.2](#), [NP\\_001034741.1](#)

**RefSeq Size:** 2641 bp

**RefSeq ORF:** 1317 bp

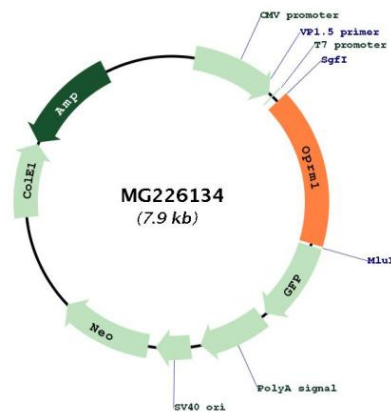
**Locus ID:** 18390

**UniProt ID:** [P42866](#)

**Cytogenetics:** 10 1.85 cM

**Gene Summary:** 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]

## Product images:



Circular map for MG226134