

Product datasheet for **RG237388**

Mu Opioid Receptor (OPRM1) (NM_001285528) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mu Opioid Receptor (OPRM1) (NM_001285528) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mu Opioid Receptor
Synonyms:	LMOR; M-OR-1; MOP; MOR; MOR1; OPRM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237388 representing NM_001285528. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGACTGCCACCAACATCTACATTTCAACCTTGCTCTGGCAGATGCCTTAGCCACCAGTACCCCTG
CCCTTCCAGAGTGTGAATTACCTAATGGGAACATGGCCATTTGGAACCATCCTTTGCAAGATAGTGATC
TCCATAGATTACTATAACATGTTACCAGCATATTCACCCTCTGCACCATGAGTGTGATCGATACATT
GCAGTCTGCCACCCTGTCAAGGCCTTAGATTTCCGTAATGTTTCCGTAATGTTTCCGTAATGTTTCCGTA
AACTGGATCCTCTCTTCAGCCATTGGTCTTCTGTAATGTTTCCGTAATGTTTCCGTAATGTTTCCGTA
TCCATAGATTGTACACTAACATTCTCTCATCCAACCTGGTACTGGGAAAACCTGCTGAAGATCTGTGTT
TTCATCTTCGCCTTCATTATGCCAGTGCTCATATTACCGTGTGCTATGGACTGATGATCTTGGCCCTC
AAGAGTGTCCGCATGCTCTCTGGCTCCAAGAAAAGGACAGGAATCTTGAAGGATCACCAGGATGGTG
CTGGTGGTGGTGGCTGTGTTTCATCGTCTGCTGGACTCCCATTACATTTACGTCATCATTAAAGCCTTG
GTTACAATCCCAGAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCATTGCTCTAGGTTACACAAAC
AGCTGCCTCAACCCAGTCTTTATGATTTCTGGATGAAAACCTCAAACGATGCTTCAGAGAGTTCTGT
ATCCCAACCTCTCCAACATTGAGCAACAAAACCTCACTCGAATTCGTCAGAACACTAGAGACCACCCC
TCCACGGCCAATACAGTGGATAGAATAATCATCAGAATTATTATATAATTATCATAGATGTTGCTGCAAT
ACCCCTTATTCTCAAAGCCAGTCTTGTCTGTTCTGTGAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237388
 Blue=ORF Red=Cloning site Green=Tag(s)

MKTATNIYIFNLALADALATSTLPFQSVNYLMGTWPFGTILCKIVISIDYNNMFTSIFTLCTMSVDRII
 AVCHPVKALDFRTPRNAKIINVCNWILSSAIGLPVMFMATTKYRQGSIDCTLTFSHPTWYENLLKICV
 FIFAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLRRITRMVLVVAVFIVCWTPIHIVYIKAL
 VTIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFREFCIPTSNNIEQQNSTRIRQNTRDHP
 STANTVDRTNHQYYIIHRCCCNTP LISQKPVLLWFCD
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001285528

ORF Size: 942 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).

RefSeq: [NM_001285528.2](#)

RefSeq Size: 1068 bp

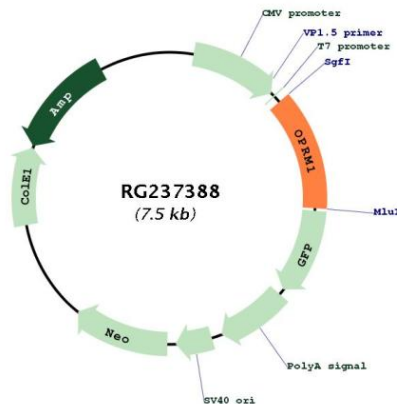
RefSeq ORF: 945 bp

Locus ID: 4988
UniProt ID: [P35372](#)
Cytogenetics: 6q25.2
Protein Families: Druggable Genome, GPCR, Transmembrane
Protein Pathways: Neuroactive ligand-receptor interaction

MW: 36.7 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]

Product images:



Circular map for RG237388