

Product datasheet for **RG237237**

Mu Opioid Receptor (OPRM1) (NM_001285527) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mu Opioid Receptor (OPRM1) (NM_001285527) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OPRM1
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:	>RG237237 representing NM_001285527. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGCTCTGGCAGATGCCTTAGCCACCAGTACCCCTG
CCCTTCCAGAGTGTGAATTACCTAATGGGAACATGGCCATTTGGAACCATCCTTTGCAAGATAGTGATC
TCCATAGATTACTATAACATGTTACCAGCATATTCACCCTCTGCACCATGAGTGTGATCGATACATT
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AACTGGATCCTCTCTTCAGCCATTGGTCTTCTGTAATGTTTCATGGCTACAACAAAATACAGGCAAGGT
TCCATAGATTGTACACTAACATTCTCTCATCCAACCTGGTACTGGGAAAACCTGCTGAAGATCTGTGTT
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AAGAGTGTCCGCATGCTCTCTGGCTCCAAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTG
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GTTACAATCCCAGAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCATTGCTCTAGGTTACACAAAC
AGCTGCCTCAACCCAGTCCTTTATGCATTTCTGGATGAAAACCTCAAACGATGCTTCAGAGAGTTCTGT
ATCCCAACCTCTCCAACATTGAGCAACAAAACCTCACTCGAATTCGTCAGAACACTAGAGACCACCC
TCCACGGCCAATACAGTGGATAGAATAATCATCAGGTACGCAGTCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237237
 Blue=ORF Red=Cloning site Green=Tag(s)

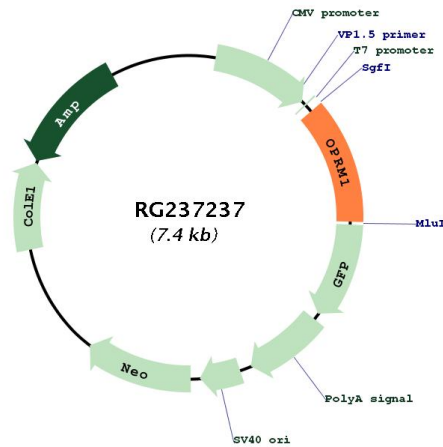
MKTATNIYIFNLALADALATSTLPPFQSVNYLMGTWPFGTILCKIVISIDYNNMFTSIFTLCTMSVDRII
 AVCHPVKALDFRTPRNAKIINVCNWILSSAIGLPVMFMATTKYRQGSIDCTLTFSHPTWYENLLKICV
 FIFAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLRITRMVLVVAVFVVCWTPIHIIYVIKAL
 VTIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFREFCIPTSNNIEQQNSTRIRQNRDHP
 STANTVDRTNHQVRSI
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001285527

ORF Size:	876 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_001285527.1 , NP_001272456.1
RefSeq Size:	1404 bp
RefSeq ORF:	879 bp
Locus ID:	4988
UniProt ID:	P35372
Cytogenetics:	6q25.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	33.6 kDa
Gene Summary:	<p>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]</p>