

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Product datasheet for SC325767

## Mu Opioid Receptor (OPRM1) (NM\_001145281) Human Untagged Clone

## **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mu Opioid Receptor (OPRM1) (NM_001145281) Human Untagged Clone
Tag:	Tag Free
Symbol:	Mu Opioid Receptor
Synonyms:	LMOR; M-OR-1; MOP; MOR; MOR1; OPRM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325767 representing NM_001145281. Blue=Insert sequence <mark>Red</mark> =Cloning site Green=Tag(s)
	GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGATGAGGGCTAAATCCATCAGCACCAAAGCTGGGAAGCCCTCCAGATACACCAAGATGAAGACTGCC ACCAACATCTACATTTTCAACCTTGCTCTGGCAGATGCCTTAGCCACCAGTACCCTGCCCTTCCAGAGT GTGAATTACCTAATGGGAACATGGCCATTTGGAACCATCCTTTGCAAGATAGTGATCTCCATAGATTAC TATAACATGTTCACCAGCATATTCACCCTCTGCACCATGAGTGTTGATCGATACATTGCAGTCTGCCAC CCTGTCAAGGCCTTAGATTTCCGTACTCCCCGAAATGCCAAAATTATCAATGTCTGCAACGGCAAGGTTCCATAGATTGT ACACTAAGGTCTCCTGTAATGTTCATGGCTACAACAAAATACAGGCAAGGTTCCATAGATTGT ACACTAACATTCTCTCATCCAACCTGGTACTGGGAAAACCTGCTGAAGATCTGTGTTTTCATCTTCGCC TTCATTATGCCAGTGCTCATCATTACCGTGTGCTATGGACTGATGATCTTGGCCCTCAAGAGTGTCCGC ATGCTCTCTGGCTCCAAAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGCTGGTGGTG GCTGTGTTCATCGTCGTGGACTCCCATTCACATTTACGTCATCAAACCAGGATGGTGCTGGTGGTGG GCTGTGTTCCAGACTGTTTCTTGGCACTTCTGCATTGCACCAAACAACAGCTGCCTCAAC CCAGTCCTTTAGCATTTCTGGATGAAAACTTCAAACGATGCTTCAGGAGGTTCTGTATCCCAACCTC TCCAACATTGGCAACAAAACTCCACTCGAATTCGTCAGGAACACTAGGAGCCACCCCTCCACGGCCAAT ACAGTGGATAGAACTAATCATCAGCTAGAAAATCTGGAACACTAGGAACCACCACGCCCCCCCACGGCCAAT ACAGTGGATAGAACTAATCATCAGCTAGAAAATCTGGAAGCAGCAACACTAGGACCACCCCCTCCACGGCCAAT ACGCGTACGCGCCGCTCGAGCAGAAACTCATCATCACAGGAGCTCTGGCTGCCTAA ACGCGTACGCGCCGCTCGAGCAGAAACTCATCATCACAGGAGCACCACCCCCTCACGGCCAAT ACAGTGGATAGAACTAATCATCAGCTAGAAAACTCCACTCCATCAGAGAGATCTGGCAGCAAACTGGTCCGTTGCCTAA
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001145281
Insert Size:	960 bp



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

	/lu Opioid Receptor (OPRM1) (NM_001145281) Human Untagged Clone – SC325767
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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 Me	<ul> <li>thod: 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> </ul>
RefSeq:	<u>NM 001145281.2</u>
RefSeq Size:	14610 bp
RefSeq ORF:	960 bp
Locus ID:	4988
UniProt ID:	<u>P35372</u>
Cytogenetics:	6q25.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	36.5 kDa

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

### CRIGENE Mu Opioid Receptor (OPRM1) (NM\_001145281) Human Untagged Clone – SC325767

This gene encodes one of at least three opioid receptors in humans; the mu opioid receptor Gene Summary: (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 7transmembrane-spanning G-protein-coupled receptors some isoforms of this gene have only 6 transmembrane domains. [provided by RefSeq, Oct 2013] Transcript Variant: This variant (MOR-1G2) lacks two alternate exons and uses an alternate splice site in the 5' region, compared to variant MOR-1i. The resulting isoform (MOR-1G2) has a shorter and distinct N-terminus, compared to isoform MOR-1i. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US