

Product datasheet for **SC324915**

Mu Opioid Receptor (OPRM1) (NM_001145280) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mu Opioid Receptor (OPRM1) (NM_001145280) Human Untagged Clone
Tag:	Tag Free
Symbol:	OPRM1
Synonyms:	LMOR; M-OR-1; MOP; MOR; MOR1; OPRM
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001145280, the custom clone sequence may differ by one or more nucleotides ATGAAGACTGCCACCAACATCTACATTTTCAACCTTGCTCTGGCAGATGCCTTAGCCACC AGTACCCTGCCCTTCCAGAGTGTGAATTACCTAATGGGAACATGGCCATTTGGAACCATC CTTTGCAAGATAGTGATCTCCATAGATTACTATAACATGTTCCACCAGCATATTCACCCTC TGCACCATGAGTGTGATCGATACATTGCAGTCTGCCACCCTGTCAAGGCCTTAGATTTT CGTACTCCCCGAAATGCCAAAATTATCAATGTCTGCAACTGGATCCTCTTTCAGCCATT GGTCTTCTGTAATGTTTCATGGCTACAACAAAATACAGGCAAGGTTCCATAGATTGTACA CTAACATTCTCTCATCCAACCTGGTACTGGGAAAACCTGCTGAAGATCTGTGTTTTTCATC TTGCGCTTCATTATGCCAGTGTCTATCATTACCGTGTGCTATGGACTGATGATCTTGCGC CTCAAGAGTGTCCGCATGCTCTCTGGCTCCAAAGAAAAGGACAGGAATCTCGAAGGATC ACCAGGATGGTGTGGTGGTGGTGGTGTGTTTCATCGTCTGCTGGACTCCCATTACATT TACGTCATCATTAAAGCCTTGGTTACAATCCCAGAAACTACGTTCCAGACTGTTTCTTGG CACTTCTGCATTGCTCTAGGTTACACAACAGCTGCCTCAACCCAGTCTTTATGCATTT CTGGATGAAAACCTCAAACGATGCTTCAGAGAGTTCTGTATCCCAACCTTTCCAACATT GAGCAACAAAACCTCCACTCGAATTCGTGAGAACTAGAGACCACCCCTCCACGGCCAAT ACAGTGGATAGAACTAATCATCAGCTAGAAAATCTGGAAGCAGAACTGCTCCGTTGCC
Restriction Sites:	Please inquire
ACCN:	NM_001145280
Insert Size:	15069 bp



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OTI Disclaimer: 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.

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 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_001145280.1](#), [NP_001138752.1](#)

RefSeq Size: 15069 bp

RefSeq ORF: 15069 bp

Locus ID: 4988

UniProt ID: [P35372](#)

Cytogenetics: 6q25.2

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

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]

Transcript Variant: This variant (MOR-1G1) lacks two alternate exons and uses a downstream start codon, compared to variant MOR-1i. The resulting isoform (MOR-1G1) has a shorter N-terminus, compared to isoform MOR-1i. Variants MOR-1G1, MOR-1K1, and MOR-1K2 encode the same isoform (MOR-1G1). 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.