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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:	OPRM1
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 Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGATGAGGGCTAAATCCATCAGCACCAAAGCTGGGAAGCCCTCCAGATACACCAAGATGAAGACTGCC ACCAACATCTACATTTTCAACCTTGCTCTGGCAGATGCCTTAGCCACCAGTACCCTGCCCTTCCAGAGT GTGAATTACCTAATGGGAACATGGCCATTTGGAACCATCCTTTGCAAGATAGTGATCTCCATAGATTAC TATAACATGTTCACCAGCATATTCACCCTCTGCACCATGAGTGTTGATCGATACATTGCAGTCTGCCAC CCTGTCAAGGCCTTAGATTTCCGTACTCCCCGAAATGCCAAAATTATCAATGTCTGCAACTGGATCCTC TCTTCAGCCATTGGTCTTCCTGTAATGTTCATGGCTACAACAAAATACAGGCAAGGTTCCATAGATTGT ACACTAACATTCTCTCATCCAACCTGGTACTGGGAAAACCTGCTGAAGATCTGTGTTTTCATCTTCGCC TTCATTATGCCAGTGCTCATCATTACCGTGTGCTATGGACTGATGATCTTGCGCCTCAAGAGTGTCCGC ATGCTCTCTGGCTCCAAAGAAAAGGACAGGAATCTTCGAAGGATCACCAGGATGGTGCTGGTGGTGGTG GCTGTGTTCATCGTCTGCTGGACTCCCATTCACATTTACGTCATCATTAAAGCCTTGGTTACAATCCCA GAAACTACGTTCCAGACTGTTTCTTGGCACTTCTGCATTGCTCTAGGTTACACAAACAGCTGCCTCAAC CCAGTCCTTTATGCATTTCTGGATGAAAACTTCAAACGATGCTTCAGAGAGTTCTGTATCCCAACCTCT TCCAACATTGAGCAACAAAACTCCACTCGAATTCGTCAGAACACTAGAGACCACCCCTCCACGGCCAAT ACAGTGGATAGAACTAATCATCAGCTAGAAAATCTGGAAGCAGAAACTGCTCCGTTGCCCTAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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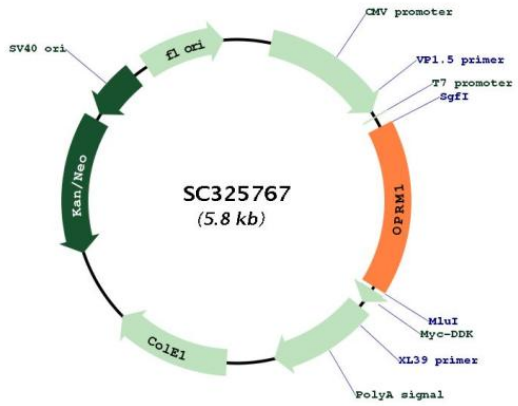
Plasmid Map:



ACCN:	NM_001145281
Insert Size:	960 bp
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 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_001145281.2
RefSeq Size:	14610 bp
RefSeq ORF:	960 bp

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Locus ID:	4988
UniProt ID:	P35372
Cytogenetics:	6q25.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	36.5 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] 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.

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