

Product datasheet for RC238094

Mu Opioid Receptor (OPRM1) (NM_001285523) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mu Opioid Receptor (OPRM1) (NM_001285523) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OPRM1
Synonyms:	LMOR; M-OR-1; MOP; MOR; MOR1; OPRM
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238094 representing NM_001285523 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGCAGCGCTGCCCCACGAACGCCAGCAATTGCACTGATGCCTTGGCGTACTCAAGTTGCTCCC
CAGCACCCAGCCCGGTTCTGGGTCAACTTGCCACTTAGATGGCAACCTGTCCGACCCATGCGGTCC
GAACCGCACCGACTGGGCGGGAGAGACAGCCTGTGCCCTCCGACCGGCAGTCCCTCCATGATCAGGCC
ATCAGGATCATGGCCCTACTCCATCGTGTGCGTGGTGGGGCTCTTCGAAACTTCTGGTCATGTATG
TGATTGTCAGATACACCAAGATGAAGACTGCCACCAACATCTACATTTTCAACCTTGCTCTGGCAGATGC
CTTAGCCACCAAGTACCCTGCCCTTCCAGAGTGTGAATTACCTAATGGGAACATGGCCATTTGGAACCATC
CTTTGCAAGATAGTGATCTCCATAGATTACTATAACATGTTCCACCAGCATATTCACCCTCTGCACCATGA
GTGTTGATCGATACATTGCAGTCTGCCACCCTGTCAAGGCCTTAGATTTCCGTACTCCCGAAATGCCAA
AATTATCAATGTCTGCAACTGGATCCTCTTTCAGCCATTGGTCTTCTGTAATGTTTCATGGCTACAACA
AAATACAGGCAAGGTTCCATAGATTGTACACTAACATTCTCTCATCCAACCTGGTACTGGGAAAACCTGC
TGAAGATCTGTGTTTTCATCTTCGCTTTCATTATGCCAGTGCTCATCATTACCGTGTGCTATGGACTGAT
GATCTTGCCTCAAGAGTGTCCGATGCTCTCTGGCTCCTCAAGAAAAGGACAGGAATCTTCGAAGGATC
ACCAGGATGGTGTGGTGGTGGTGGTGTGTTTCATCGTCTGCTGGACTCCATTACATTTACGTATCA
TTAAAGCCTTGGTTACAATCCCAGAAACTACGTTCCAGACTGTTTCTGGCACTTCTGCATTGCTTAGG
TTACACAAACAGCTGCCTCAACCCAGTCTTTATGCATTTCTGGATGAAAACCTCAAACGATGCTTCAGA
GAGTTCTGTATCCCAACCTCTTCAACATTGAGCAACAAAACCTCCACTCGAATTCGTCAGAACACTAGAG
ACCACCCTCCACGGCAATACAGTGGATAGAATAATCATCAGAATTATATATAATTCATAGATGTTG
CTGCAATACCCCTCTTATTTCTCAAAGCCAGTCTTGCTGTTCTGTGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC238094 representing NM_001285523
Red=Cloning site Green=Tags(s)

MDSSAAPTNASNCTDALAYSSCPAPSPGSWVNLSHLDGNLSDPCGPNRTDLGGRDLSLCPPTGSPSMITA
 ITIMALYSIVCVVGLFGNFLVMYVIVRYTKMKTATNIYIFNLALADALATSTLFPQSVNYLMGTWPFGTI
 LCKIVISIDYYNMFTSIFTLCTMSVDRIYAVCHPVKALDFRTPRNAKIINVCNWILSSAIGLPVMFMATT
 KYRQGSIDCTLTFSHPTWYWENLLKICVFIFAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLRI
 TRMVLVVAVFIVCWTPIHIVYIICALVTIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFR
 EFCIPTSSNIEQQNSTRIRQNTRDHPSTANTVDRTNHQYNYIHRCCNTPLISQKPVLLWFCD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

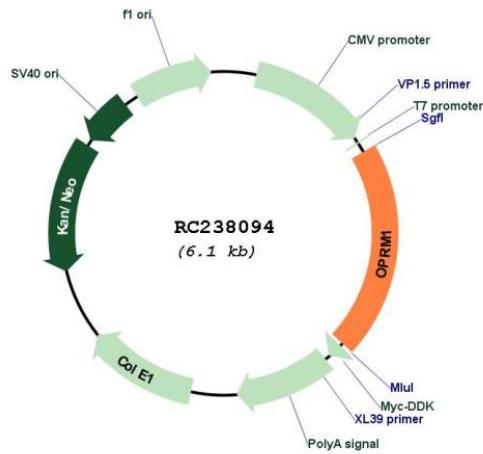
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001285523

ORF Size:	1242 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).
Reconstitution Method:	<ol style="list-style-type: none">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_001285523.3
RefSeq Size:	1737 bp
RefSeq ORF:	1245 bp
Locus ID:	4988
UniProt ID:	P35372
Cytogenetics:	6q25.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Neuroactive ligand-receptor interaction
MW:	47.1 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]