

Product datasheet for MR229516

Opr1 (NM_001252565) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Opr1 (NM_001252565) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Opr1
Synonyms:	KOR-3; KOR3; LC13; LC132; mo; MOR; MOR-C; morc; NOP; O; Oprl; ORGC; ORL1; XO; XOR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229516 representing NM_001252565 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGTCCCTCTTCTGCCCATTTCTGGGAGGTCTTGTATGGCAGCCACTTTCAAGGGAACCTGTCTC
TCCTAAATGAGACCGTACCCCATCACCTGCTCCTCAATGCTAGCCACAGTGCCTTCTGCCCTTGGACT
CAAGGTACCATCGTGGGCTCTACTTGGCTGTGTGCATCGGGGGCTCCTGGGAACTGCCTCGTCATG
TATGTCATCCTCAGGCACACCAAGATGAAGACTGCTACCAACATTTACATATTTAATCTGGCACTGGCTG
ATACCCTGGTCTTGTGACTGACCTGCCCTCCAGGGCACAGACATCCTTCTGGGCTTCTGGCCATTTGGGAA
TGCACTGTGCAAGACGGTCATTGCTATCGACTACTACAACATGTTTACCAGCACTTTCACCTTGGACTGCC
ATGAGTGTAGACCGTTATGTAGCTATCTGCCACCCTATCCGTGCCCTTGTATGTTCCGGACATCCAGTAAAG
CCCAGGCCGTTAATGTGGCCATATGGGCCCTGGCTTCGGTGGTGGTGGTCTTCTGTTGCCATCATGGGCTC
AGCACAAGTGGAGGATGAAGAGATCGAGTGCCTGGTGGAGATCCCCGCCCTCAGGACTATTGGGCCCT
GTATTTGCCATCTGCATCTTCTTTTTTCTTCCATCATCCCGTTCTGATCATCTCTGTCTGTACAGCC
TCATGATTCGACGACTTCTTGGTGTCCGGCTGCTTTCAGGCTCCCAGAGAAGGACCGGAACCTGCGACG
CATCACACGGCTGGTACTGGTAGTTGTGGCTGTGTTTGTGGGCTGCTGGACACCTGTGCAGTCTTTGTC
CTGGTTCAAGGACTGGGTGTTCCAGCCAGGTAGTGAGACTGCAGTAGCCATTCTGCCCTTCTGCACAGCCC
TGGGCTATGTCAACAGTTGTCTCAATCCATTCTCTATGCTTTCTTGGATGAGAAGTCAAGGCCTGCTT
TAGAAAAGTTCTGTCTGTCTTCTGCCCTGCACCGGAGATGCAGGTTTCTGATCGTGTGCGCAGCATTGCC
AAGGATGTAGGCTTGGTTGCAAGACCTCTGAGACAGTACCACGGCCGGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229516 representing NM_001252565
Red=Cloning site Green=Tags(s)

MESLFPAPFWEVLYGSHFQGNLSLLNETVPHLLLNASHSAFLPLGLKVTIVGLYLAVCIGLLGNCLVM
 YVILRHTKMKKTATNIYIFNLALADTLVLLTLPFQGTDILLGFWPFGNALCKTVIAIDYYNMFTSTFTLTA
 MSVDRYVAICHPIRAFVDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVEDEEIECLVEIPAPQDYWGP
 VFAICIFLFSFIIPVLIISVCYSLMIRRLGVRLLSGSREKDRNLRRITRLVLVVAVFVGCWTPVQVFFV
 LVQGLGVQPGSETAVAILRFCTALGYVNSCLNPILYAFLDENFKACFRKFCASALHREMQVSDRVRZIA
 KDVGLGCKTSETVPRPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001252565

ORF Size: 1101 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:

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_001252565.1](#), [NP_001239494.1](#)

RefSeq Size: 2927 bp

RefSeq ORF: 1104 bp

Locus ID: 18389

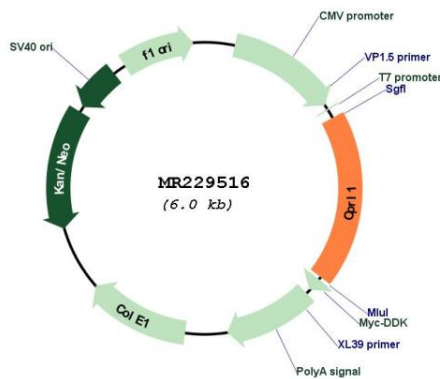
UniProt ID: [P35377](#)

Cytogenetics: 2 103.74 cM

MW: 40.5 kDa

Gene Summary: The protein encoded by this gene is a member of the 7 transmembrane-spanning G protein-coupled receptor family, and functions as a receptor for the endogenous, opioid-related neuropeptide, nociceptin/orphanin FQ. This receptor-ligand system modulates a variety of biological functions and neurobehavior, including stress responses and anxiety behavior, learning and memory, locomotor activity, and inflammatory and immune responses. Alternatively spliced transcript variants have been described for this gene. A recent study provided evidence for translational readthrough in this gene, and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon. [provided by RefSeq, Dec 2017]

Product images:



Circular map for MR229516