

Product datasheet for RR212211

Opr1 (NM_031569) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Opr1 (NM_031569) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Opr1
Synonyms: KOR-3; KOR3; LC132; MOR-C; OFQR; Oprl; ORL1; XOR1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212211 representing NM_031569
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGTCCCTCTTCTGCTCCATACTGGGAGGTCTTGTATGGCAGCCACTTTCAAGGGAACCTGTCCC
 TCCTAAATGAGACCGTACCCACCACCTGCTCCTCAATGCTAGTCACAGCGCCTTCTGCCCTTGGACT
 CAAGGTACCATCGTGGGCTCTACTTGGCTGTGTGCATCGGGGGCTCCTGGGGAAGTGCCTCGTCATG
 TATGTCATCCTCAGGCACACCAAGATGAAGACAGCTACCAACATTTACATATTTAATCTGGCACTGGCTG
 ATACCCTGGTCTTGCTAACACTGCCCTCCAGGGCACAGACATCCTACTGGGCTTCTGGCCATTTGGGAA
 TGCACTCTGCAAGACTGTCATTGCTATCGACTACTACAACATGTTTACCAGCACTTTTACTCTGACCGCC
 ATGAGCGTAGACCGCTATGTGGCTATCTGCCACCCTATCCGTGCCCTTGATGTTCCGACATCCAGCAAAG
 CCCAGGCTGTTAATGTGGCCATATGGGCCCTGGCTTCAGTGGTGGTGTCTCTGTTGCCATCATGGGTTT
 AGCACAAGTGAAGATGAAGAGATCGAGTGCCTGGTGGAGATCCCTGCCCTCAGGACTATTGGGCCCT
 GTATTCGCCATCTGCATCTTCTTTTTTCTTTCATCATCCCTGTGCTGATCATCTCTGTCTGCTACAGCC
 TCATGATTCGACGACTTCGTGGTGTCCGTCTGCTTTAGGCTCCCGGGAGAAGGACCGAAACCTGCGGCG
 TATCACTCGACTGGTGTGGTAGTGGTGGCTGTGTTTGTGGGCTGCTGGACGCTGTGCAGGTGTTTGTCT
 CTGGTTCAAGGACTGGGTGTTCAAGCAGGTAGTGAGACTGCAGTTGCCATCCTGCGCTTCTGCACAGCCC
 TGGGCTATGTCAACAGTTGTCTCAATCCCATTCTCTATGCTTTCTGGATGAGAAGTTCAAGGCCTGCTT
 TAGAAAGTTCTGCTGTGCTTCACTCCCTGCACCGGGAGATGCAGGTTTCTGATCGTGTGGGAGCATTGCC
 AAGGATGTTGGCCTTGGTTGCAAGACTTCTGAGACAGTACCACGGCCAGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR212211 representing NM_031569
 Red=Cloning site Green=Tags(s)

MESLFPAPYWEVLYGSHFQGNLSLLNETVPHLLLNASHSAFLPLGLKVTIVGLYLAVCIGLLGNCLVM
 YVILRHTKMKATNIYIFNLALADTLVLLTLPFQGTDILLGFWPFGNALCKTVIAIDYYNMFTSTFTLTA
 MSVDRYVAICHPIRALDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVEDEEIECLVEIPAPQDYWGP
 VFAICIFLFSFIIPVLIISVCYSLMIRRLRGVRLLSGSREKDRNLRIRITRLVLVVAVFVGCWTPVQV
 LQGLGVQPGSETAVAILRFCTALGYVNSCLNPILYAFLDENFKACFRKFCASSLHREMQVSDRVR
 KIAKDVGLGCKTSETVPRPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

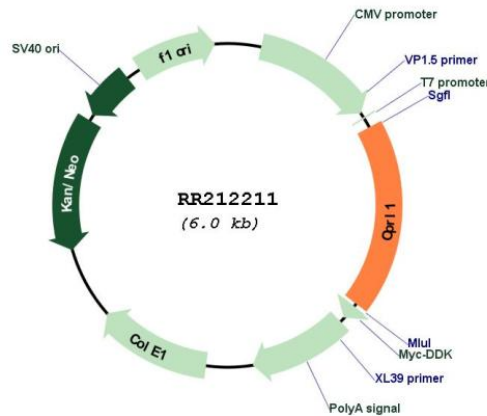
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_031569

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:	<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_031569.4 , NP_113757.1
RefSeq Size:	3008 bp
RefSeq ORF:	1104 bp
Locus ID:	29256
UniProt ID:	P35370
Cytogenetics:	3q43
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 found 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]