

## Product datasheet for RN212211

### Opr1 (NM\_031569) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Opr1 (NM_031569) Rat Untagged Clone
Tag:	Tag Free
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
Fully Sequenced ORF:	>RN212211 representing NM_031569 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGTCCCTCTTCTGCTCCATACTGGGAGGTCTTGTATGGCAGCCACTTTCAAGGGAACCTGTCCC  
TCCTAAATGAGACCGTACCCACCACCTGCTCCTCAATGCTAGTCACAGCGCCTTCTGCCCTTGGACT  
CAAGGTCACCATCGTGGGCTCTACTTGGCTGTGTGCATCGGGGGCTCCTGGGGAAGTGCCTCGTCATG  
TATGTCATCCTCAGGCACACCAAGATGAAGACAGCTACCAACATTTACATATTTAATCTGGCACTGGCTG  
ATACCCTGGTCTTGCTAACACTGCCCTCCAGGGCACAGACATCCTACTGGGCTTCTGGCCATTTGGGAA  
TGCACTCTGCAAGACTGTCATTGCTATCGACTACTACAACATGTTTACCAGCACTTTTACTCTGACCGCC  
ATGAGCGTAGACCGCTATGTGGCTATCTGCCACCCTATCCGTGCCCTTGATGTTCCGACATCCAGCAAAG  
CCCAGGCTGTTAATGTGGCCATATGGGCCCTGGCTTCAGTGGTGGTGTCTCTGTTGCCATCATGGGTTT  
AGCACAAGTGAAGATGAAGAGATCGAGTGCCTGGTGGAGATCCCTGCCCTCAGGACTATTGGGGCCCT  
GTATTCGCCATCTGCATCTTCTTTTTTCTTTCATCATCCCTGTGCTGATCATCTGTCTGTCTACAGCC  
TCATGATTCGACGACTTCGTGGTGTCCGTCTGCTTTAGGCTCCCGGGAGAAGGACCGAAACCTGCGGCG  
TATCACTCGACTGGTGTGGTAGTGGTGGCTGTGTTGTGGGCTGCTGGACGCTGTGCAGGTGTTTGTCT  
CTGGTTCAAGGACTGGGTGTTCAAGCAGGTAGTGAGACTGCAGTTGCCATCCTGCGCTTCTGCACAGCCC  
TGGGCTATGTCAACAGTTGTCTCAATCCCATTCTCTATGCTTTCTGGATGAGAATTCAAGGCCTGCTT  
TAGAAAGTTCTGCTGTGCTTCAATCCCTGCACCGGGAGATGCAGGTTTCTGATCGTGTGCGGAGCATTGCC  
AAGGATGTTGGCCTTGGTTGCAAGACTTCTGAGACAGTACCACGGCCAGCATGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_031569



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<b>Insert Size:</b>	1104 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_031569.4</a> , <a href="#">NP_113757.1</a>
<b>RefSeq Size:</b>	2999 bp
<b>RefSeq ORF:</b>	1104 bp
<b>Locus ID:</b>	29256
<b>UniProt ID:</b>	<a href="#">P35370</a>
<b>Cytogenetics:</b>	3q43
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes two isoforms, which result from the use of alternative in-frame translation termination codons. The shorter isoform (1) results from translation termination at the upstream UGA stop codon, while the longer isoform (1x) results from UGA stop codon readthrough to the downstream UAG termination codon. This RefSeq represents the shorter isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>