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Product datasheet for MC227305

Oprl1 (NM_001252565) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oprl1 (NM_001252565) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Oprl1
Synonyms:	KOR-3; KOR3; LC13; LC132; mo; MOR; MOR-C; morc; NOP; O; Oprl; ORGC; ORL1; XO; XOR1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227305 representing NM_001252565 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGTCCCTCTTTCCTGCCCCATTCTGGGAGGTCTTGTATGGCAGCCACTTTCAAGGGAACCTGTCTC TCCTAAATGAGACCGTACCCCATCACCTGCTCCTCAATGCTAGCCACAGTGCCTTCCTGCCCCTTGGACT CAAGGTCACCATCGTGGGGCTCTACTTGGCTGTGTGCATCGGGGGGCTCCTGGGGAACTGCCTCGTCATG TATGTCATCCTCAGGCACACCAAGATGAAGACTGCTACCAACATTTACATATTTAATCTGGCACTGGCTG ATACCCTGGTCTTGCTGACACTGCCCTTCCAGGGCACAGACATCCTTCTGGGCTTCTGGCCATTTGGGAA TGCACTGTGCAAGACGGTCATTGCTATCGACTACTACAACATGTTTACCAGCACTTTCACTTTGACTGCC ATGAGTGTAGACCGTTATGTAGCTATCTGCCACCCTATCCGTGCCCTTGATGTTCGGACATCCAGTAAAG CCCAGGCCGTTAATGTGGCCATATGGGCCCTGGCTTCGGTGGTTGGTGTTCCTGTTGCCATCATGGGCTC AGCACAAGTGGAGGATGAAGAGATCGAGTGCCTGGTGGAGATCCCCGCCCCTCAGGACTATTGGGGCCCT GTATTTGCCATCTGCATCTTCCTTTTTTCCTTCATCATCCCGGTTCTGATCATCTCTGTCTGCTACAGCC TCATGATTCGACGACTTCGTGGTGTCCGGCTGCTTTCAGGCTCCCGAGAGAAGGACCGGAACCTGCGACG CATCACACGGCTGGTACTGGTAGTTGTGGCTGTGTTTGTGGGCTGCTGGACACCTGTGCAGGTCTTTGTC CTGGTTCAAGGACTGGGTGTTCAGCCAGGTAGTGAGACTGCAGTAGCCATTCTGCGCTTCTGCACAGCCC TGGGCTATGTCAACAGTTGTCTCAATCCCATTCTCTATGCTTTCTTGGATGAGAACTTCAAGGCCTGCTT TAGAAAGTTCTGCTGTGCTTCTGCCCTGCACCGGGAGATGCAGGTTTCTGATCGTGTGCGCAGCATTGCC AAGGATGTAGGCCTTGGTTGCAAGACCTCTGAGACAGTACCACGGCCGGCATGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001252565

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Insert Size:	1104 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:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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
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] Transcript Variant: This variant (2) uses an alternate 5' non-coding exon; therefore, differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (1).