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Product datasheet for MG205642

Oprl1 (NM_011012) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oprl1 (NM_011012) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Oprl1
Synonyms:	KOR-3; KOR3; LC13; LC132; mo; MOR; MOR-C; morc; NOP; O; Oprl; ORGC; ORL1; XO; XOR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG205642 representing NM_011012
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGTCCCTCTTTCCTGCCCCATTCTGGGAGGTCTTGTATGGCAGCCACTTTCAAGGGAACCTGTCTC
TCCTAAATGAGACCGTACCCCATCACCTGCTCCTCAATGCTAGCCACAGTGCCTTCCTGCCCCTTGGACT
CAAGGTCACCATCGTGGGGCTCTACTTGGCTGTGTGCATCGGGGGGCTCCTGGGGAACTGCCTCGTCATG
TATGTCATCCTCAGGCACACCAAGATGAAGACTGCTACCAACATTTACATATTTAATCTGGCACTGGCTG
ATACCCTGGTCTTGCTGACACTGCCCTTCCAGGGCACAGACATCCTTCTGGGCTTCTGGCCATTTGGGAA
TGCACTGTGCAAGACGGTCATTGCTATCGACTACTACAACATGTTTACCAGCACTTTCACTTTGACTGCC
ATGAGTGTAGACCGTTATGTAGCTATCTGCCACCCTATCCGTGCCTTTGATGTTCGGACATCCAGTAAAG
CCCAGGCCGTTAATGTGGCCATATGGGCCCTGGCTTCGGTGGTTGGTGTTCCTGTTGCCATCATGGGCTC
AGCACAAGTGGAGGATGAAGAGATCGAGTGCCTGGTGGAGATCCCCGCCCCTCAGGACTATTGGGGCCCT
GTATTTGCCATCTGCATCTTCCTTTTTTCCTTCATCATCCCGGTTCTGATCATCTCTGTCTGCTACAGCC
TCATGATTCGACGACTTCTTGGTGTCCGGCTGCTTTCAGGCTCCCGAGAGAAGGACCGGAACCTGCGACG
CATCACACGGCTGGTACTGGTAGTTGTGGCTGTGTTTGTGGGCTGCTGGACACCTGTGCAGGTCTTTGTC
CTGGTTCAAGGACTGGGTGTTCAGCCAGGTAGTGAGACTGCAGTAGCCATTCTGCGCTTCTGCACAGCCC
TGGGCTATGTCAACAGTTGTCTCAATCCCATTCTCTATGCTTTCTTGGATGAGAACTTCAAGGCCTGCTT
TAGAAAGTTCTGCTGTGCTTCTGCCCTGCACCGGGAGATGCAGGTTTCTGATCGTGTGCGCAGCATTGCC
AAGGATGTAGGCCTTGGTTGCAAGACCTCTGAGACAGTACCACGGCCGGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

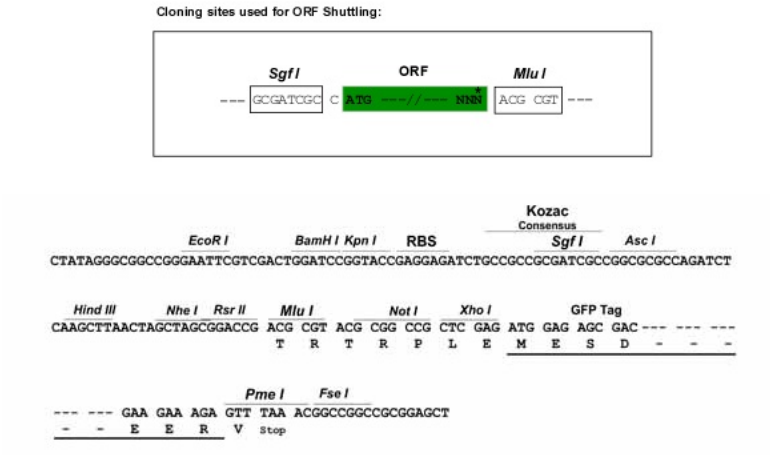
>MG205642 representing NM_011012
Red=Cloning site Green=Tags(s)

MESLFPAPFWEVLYGSHFQGNLSLLNETVPHHLLLNASHSAFLPLGLKVTIVGLYLAVCIGGLLGNCLVM
YVILRHTKMKTATNIYIFNLALADTLVLLTLPFQGTDILLGFWPFGNALCKTVIAIDYYNMFTSTFTLTA
MSVDRYVAICHPIRAFDVRTSSKAQAVNVAIWALASVVGVPVAIMGSAQVEDEEIECLVEIPAPQDYWGP
VFAICIFLFSFIIPVLIISVCYSLMIRRLLGVRLLSGSREKDRNLRRITRLVLVVVAVFVGCWTPVQVFV
LVQGLGVQPGSETAVAILRFCTALGYVNSCLNPILYAFLDENFKACFRKFCCASALHREMQVSDRVRSIA
KDVGLGCKTSETVPRPA

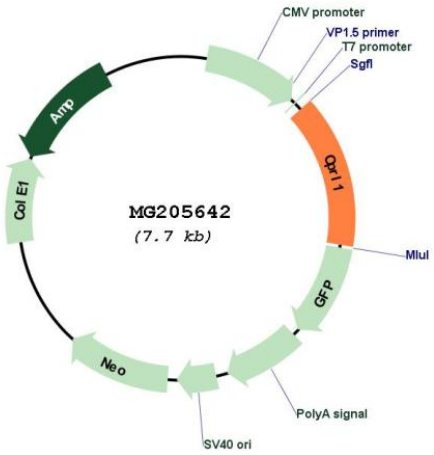
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_011012

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_011012.2, NP_035142.1
RefSeq Size:	2959 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]