

Product datasheet for **RR213308**

Opn1mw (NM_053548) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Opn1mw (NM_053548) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Opn1mw
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR213308 representing NM_053548
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCCAACAGCTTACAGGTGAACAGACACTGGACCATTATGAGGATAGCACCCAGGCAAGCATCTTCA
CCTATACCAACAGCAACAGCACCCAGAGGTCCTTTGAAGGTCCAATTATCACATTGCTCCAAGGTGGGT
GTACCACCTCACCAGCACCTGGATGATTCTTGTGGTCATTGCATCTGTCTTCAAAATGGACTCGTGCTG
GCAGCCACCATGAGGTTCAAGAAGCTGCGTCATCCTCTGAACTGGATTCTAGTGAACCTGGCAGTTGCTG
ACCTAGCAGAGACCATTATTGCCAGCACTATCAGTGTGTGAACCAAATCTATGGCTACTTTGTGTGGG
CCACCCTCTGTGTGCATAGAAGGCTACATTGTCTCACTATGTGGGATCACAGGCCTCTGGTCTTGGCC
ATCATTTCCTGGGAGAGATGGCTGGTGGTCTGCAAGCCCTTTGGCAATGTGAGATTTGATGCTAACTGG
CCACTGTGGGAATCGTCTTCTCCTGGGTCTGGGCTGCTGTATGGACGGCCCCACCAATCTTGGTTGGAG
CAGGACTGGCCTTATGGCCTGAAGACATCGTGTGGTCCAGACGTGTTCCAGCGGTACCTCGTATCCTGGG
GTTTCAGTCTTATATGATGGTCTCATGGTCACGTGCTGCATCTTCCCACTCAGCATCATCGTCTGCTGCT
ACCTCCAAGTGTGGCTGGCCATCCGAGCAGTGGCAAAGCAACAGAAAGAATCTGAGTCCACCCAGAAGGC
TGAGAAGGAGGTGACACGCATGGTGGTGGTGGTCTTTCGCATACTGCCTCTGCTGGGGCCCTATACT
TTCTTTGCATGCTTTGCTACTGCCATCCTGGCTATGCCTTCCACCCTCTTGTGGCTCCCTACCATCCT
ACTTTGCCAAAAGTGCCACTATCTACAATCCCATTATCTATGTCTTTATGAACCGGCAGTTTCGAAATTG
CATCTTACAGCTCTTTGGAAAGAAAGTTGATGATAGCTCTGAACTTTCAGCACCTCCAAAACAGAAGTC
TCATCTGTCTCTTCAGTGTACCTGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR213308 representing NM_053548
Red=Cloning site Green=Tags(s)

MAQQLTGEQTLDHYEDSTQASIFTYTNSTRGPFEGPNYHIAPRWVYHLTSTWMILVVIASVFTNGLVL
 AATMRFKKLRHPLNWILVNLAVADLAETIIASTISVVNQIYG YFVLGHPLCVIEGYIVSLCGITGLWSLA
 IISWERWLVVCKPFGNVRFDAKLATVGI VFSWVWAAVWTAPPIFGWSRYWPYGLKTCSCGPDVFSGTSYPG
 VQSYMMVLMVTTCCIFPLSIIVLCYLQVWLAI RAVAKQQKESESTQKAEKEVTRMVMVMVFAYCLCWGPYT
 FFACFATAHPGYAFHPLVASLPSYFAKSATIYNP I IYVFMNRQFRNCILQLFGKKVDDSSSELSSTSKTEV
 SSVSSVSPA

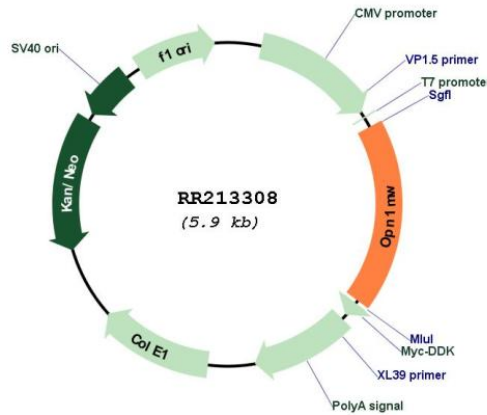
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053548

ORF Size:	1077 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_053548.1 , NP_446000.1
RefSeq Size:	1080 bp
RefSeq ORF:	1080 bp
Locus ID:	89810
UniProt ID:	O35476
Cytogenetics:	Xq37
MW:	40.2 kDa
Gene Summary:	a green visual pigment fo the retina; involved in color vision [RGD, Feb 2006]