

## Product datasheet for **MR205483**

### Opn1mw (NM\_008106) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Opn1mw (NM_008106) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Opn1mw
Synonyms:	Gcp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205483 representing NM_008106 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGGCCAAAGGCTTACAGGTGAACAGACACTGGACCACTATGAGGATAGCACCCATGCAAGCATCTTCA  
CCTATACCAACAGCAACAGCACCAAGGTCCTTTGAAGGCCCAATTATCACATTGCTCCAGGTGGGT  
GTACCACCTCACCAGCACCTGGATGATTCTTGTGGTCGTTGCATCTGTCTTCACTAATGGACTTGTGCTG  
GCAGCCACCATGAGATTCAGAAGCTGCGCCATCCACTGAACTGGATTCTGGTGAAGTTGGCAGTTGCTG  
ACCTAGCAGAGACCATTATTGCCAGCACTATCAGTGTGTGAACCAATCTATGGCTACTTCGTTCTGGG  
ACACCCTCTGTGTGTCATTGAAGGCTACATTGTCTCATTGTGTGGAATCACAGGCCTCTGGTCCCTGGCC  
ATCATTTCCTGGGAGAGATGGCTGGTGGTCTGCAAGCCCTTTGGCAATGTGAGATTTGATGCTAAGCTGG  
CCACTGTGGGAATCGTCTTCTCCTGGGTCTGGGCTGCTATATGGACGGCCCCACCAATCTTTGGTTGGAG  
CAGGACTGGCCTTATGGCCTGAAGACATCCTGTGGCCAGACGTGTTACAGCGGTACCTCGTACCCCGGG  
GTTCACTTATATGATGGTCTCATGGTCACGTGCTGCATCTTCCACTCAGCATCATCGTGTCTGCT  
ACCTCCAAGTGTGGCTGGCCATCCGAGCAGTGGCAAAGCAACAGAAAGAATCTGAGTCCACTCAGAAGGC  
CGAGAAGGAGGTGACACGCATGGTGGTGGTGGTATGCTTCCGATACTGCCTCTGCTGGGACCCTATACT  
TTCTTTGCATGCTTTGCTACTGCCACCCTGGCTATGCCTCCACCCTTGTGGCCTCCCTACCCTCT  
ACTTTGCCAAAAGTGCCACTATCTACAACCCATTATCTATGTCTTTATGAACCGCAGTTTCGAAACTG  
CATCTTACATCTCTTTGAAAAGAAGGTTGATGATAGCTCTGAACTTTCCAGCACCTCAAGACAGAAGTC  
TCATCTGTCTCTTCAGTGTACCTGCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >MR205483 representing NM\_008106  
Red=Cloning site Green=Tags(s)

MAQRLTGEQLDHYEDSTHASIFTYTNSTKGPFEQPNYHIAPRWVYHLTSTWMILVVVASVFTNGLVL  
 AATMRFKKLRHPLNWILVNLAVADLAETIIASTISVVNQIYG YFVLGHPLCVIEGYIVSLCGITGLWSLA  
 IISWERLWLVVCKPFGNVRFDAKLATVGI VFSWVWAAIWTAPPIFGWSRYWPYGLKTS CGPDVFSGTSYPG  
 VQSYMMVLMVTCCIFPLSIIVLQVLAIRAVAKQQKESESTQKAEKEVTRMVVVMVFAYCLCWGPYT  
 FFACFATAHPGYAFHPLVASLPSYFAKSATIYNPIIYVFMNRQFRNCILHLFGKKVDDSSSELSSTSKTEV  
 SSVSSVSPA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9019\\_f09.zip](https://cdn.origene.com/chromatograms/mm9019_f09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_008106

**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:**

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\\_008106.2](#), [NP\\_032132.1](#)

**RefSeq Size:** 1221 bp

**RefSeq ORF:** 1080 bp

**Locus ID:** 14539

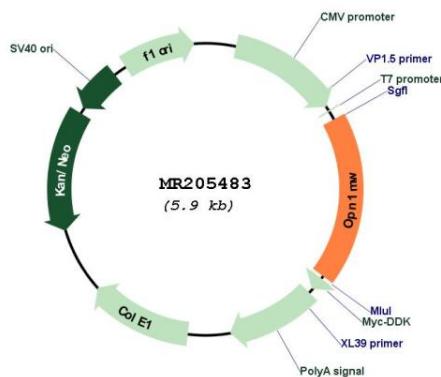
**UniProt ID:** [O35599](#)

**Cytogenetics:** X A7.3

**MW:** 40.7 kDa

**Gene Summary:** Visual pigments are the light-absorbing molecules that mediate vision. They consist of an apoprotein, opsin, covalently linked to cis-retinal. May increase spectral sensitivity in dim light. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR205483