

Product datasheet for **MG205483**

Opn1mw (NM_008106) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Opn1mw (NM_008106) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Opn1mw
Synonyms:	Gcp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205483 representing NM_008106 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCCAAAGGCTTACAGGTGAACAGACACTGGACCACTATGAGGATAGCACCCATGCAAGCATCTTCA
CCTATACCAACAGCAACAGCACCAAGGTCCTTTGAAGGCCCAATTATCACATTGCTCCAGGTGGGT
GTACCACCTCACCAGCACCTGGATGATTCTTGTGGTGGTGCATCTGTCTTCACTAATGGACTTGTGCTG
GCAGCCACCATGAGATTCAGAAGCTGCCCATCCACTGAACTGGATTCTGGTGAACCTGGCAGTTGCTG
ACCTAGCAGAGACCATTATTGCCAGCACTATCAGTGTTGTGAACCAATCTATGGCTACTTCGTTCTGGG
ACACCCTCTGTGTGTCATTGAAGGCTACATTGTCTCATTGTGTGGAATCACAGGCCTCTGGTCCCTGGCC
ATCATTTCCTGGGAGAGATGGCTGGTGGTCTGCAAGCCCTTTGGCAATGTGAGATTTGATGCTAAGCTGG
CCACTGTGGGAATCGTCTTCTCCTGGGTCTGGGCTGCTATATGGACGGCCCAACCAATCTTTGGTTGGAG
CAGGACTGGCCTTATGGCCTGAAGACATCCTGTGGCCAGACGTGTTACAGCGGTACCTCGTACCCCGGG
GTTCACTTATATGATGGTCTCATGGTCACGTGCTGCATCTTCCCACTCAGCATCATCGTGTCTGCT
ACCTCCAAGTGTGGCTGGCCATCCGAGCAGTGGCAAAGCAACAGAAAGAATCTGAGTCCACTCAGAAGGC
CGAGAAGGAGGTGACACGCATGGTGGTGGTGGTGGTCTTCGCATACTGCCTCTGCTGGGGACCCTATACT
TTCTTTGCATGCTTTGCTACTGCCACCCTGGCTATGCCTCCACCCTCTGTGGCCTCCCTACCATCCT
ACTTTGCCAAAAGTGCCACTATCTACAACCCATTATCTATGTCTTTATGAACCGCAGTTTCGAAACTG
CATCTTACATCTCTTTGAAAAGAAGGTTGATGATAGCTCTGAACTTTCCAGCACCTCCAAGACAGAAGTC
TCATCTGTCTCTTCACTGTACCTGCA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205483 representing NM_008106
 Red=Cloning site Green=Tags(s)

MAQRLTGEQTLDHYEDSTHASIFTYTNSNSTKGFEGPNYHIAPRWVYHLTSTWMILVVVASVFTNGLVL
 AATMRFKKLRHPLNWILVNLAVADLAETIIASTISVVNQIYG YFVLGHPLCVIEGYIVSLCGITGLWSLA
 IISWERLWLVCKPFGNVRFDAKLATVGI VFSWVWAAIWTAPPIFGWSRYWPYGLKTS CGPDVFSGTSYPG
 VQSYMMVLMVTCCIFPLSIIVLCYLQVWLAI RAVAKQQKESESTQKAEKEVTRM VVMVFAYCLCWGPYT
 FFA CFATAHPGYAFHPLVASLPSYFAKSATIYNPIIYVFMNRQFRNCILHLFGKKVDDSSSELSSTSKTEV
 SSVSSVSPA

TRTRPLE - GFP Tag - V

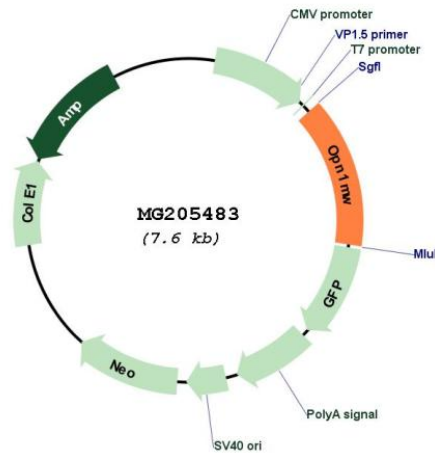
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_008106.2 , NP_032132.1
RefSeq Size:	1221 bp
RefSeq ORF:	1080 bp
Locus ID:	14539
UniProt ID:	O35599
Cytogenetics:	X A7.3
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]