

Product datasheet for **MC205366**

Opn1sw (NM_007538) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Opn1sw (NM_007538) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Opn1sw
Synonyms:	AW551857; Bcp
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC026021
 GTGATAGCAGAAGAATCGTCTATAAGAGGGACCGGAGGTGGTAGTGAGGGCATCCCAAGCGGGAGATGTC
 AGGAGAGGATGACTTTTACCTGTTTCAGAATATCTCTTCGGTGGGGCCCTGGGATGGGCCTCAGTACCAC
 CTTGCTCCTGTCTGGGCCTTCCGCCTCCAGGCAGCCTTCATGGGATTTGTCTTTTGTGGGGACCCAC
 TCAATGCCATAGTGCTGGTGGCCACACTGCATTACAAAAGTTGCGACAGCCCCTCAACTATATTCTGGT
 CAATGTATCCCTCGGGGCTTCTCTTCTGCATCTTCTGTCTTCACAGTCTTCATCGCCAGCTGTAC
 GGATACTTCTCTTTGGTGGCCATGTTTGTCTCTGGAGGCCCTTCTGGGCTCTGTAGCAGGTCTAGTGA
 CAGGATGGTCATTGGCTTTCCTGGCTTTTGAACGCTACGTTGTCTGTAAACCCCTTCGGCAGCATCCG
 CTTCAACTCCAAGCATGCACTGATGGTGGTCTGGCTACTTGGATTATTGGTATCGGGGTGTCCATCCCA
 CCCTTTTTTGGCTGGAGCAGTTCATCCCTGAGGGCTGCAGTGTCTGTGGCCAGACTGGTACACTG
 TGGGCACCAAGTATCGAAGCGAGTACTACACCTGGTTCCTCTTCATCTTCTGTTTCATCATTCTCTTTC
 CCTCATCTGCTTCTCTACTCCAGTTGCTGAGGACTCTCAGAGCTGTGGCAGCTCAGCAGCAAGAGTCT
 GCTACGACACAAAAGGCTGAACGGGAGGTGAGTCATATGGTGGTGGTATGGTGGGATCCTTCTGTCTCT
 GCTACGTGCCCTATGCTGCCCTGGCCATGTACATGGTCAACAATCGGAACCACGGGCTGGACTTACGGCT
 TGTCAACATCCCGCCTTCTTTTCCAAGAGCTCCTGTGTCTACAACCCCATCATCTACTGCTTCATGAAT
 AAGCAGTTCGGGCTTGCACTTCTGGAGATGGTGTGCAGGAAGCCCATGGCAGACGAATCTGACGTGTCTG
 GCTCTCAGAAAACAGAAGTTTCTACTGTCTCTTAGCAAAAGTTGGCCCTCACTGAGGCCCTCAGCTGG
 CCTGTAGCAGCAAAACACACGCCACATTTAAGTATCTACATCTCCACTAGAATCCTAACCATTAAACAGG
 GGAAAGATGGGGAGTGGTGGCACTCTGGTGAGTCACCTTCATTTTCTGTTACTCTCTGCCTGTAGCAGG
 GCCACATGGACCATTTTAAACAGTCACAGTTTCTAAGTGGCACTCTCACCTCTGGAGAAGTGTGAGAGAAG
 GGCTGCGTTTCTGGTGTATGGGTAACACTTCCTTTTTTGTCTTTTTTTTTTTTTTCTCCTCCCTGCTG
 GGGATCTGAGATGATATCCAGTATTAGAATAAGCTTGGCATGGGGCAGTGCCAAGAAAAGGCAGCAGA
 CACCGGCACCTGCAGTGAATCGAAGAGCTTCTTATGTGGCCTCTCCAGTTGCTGCAGTCTGGGCTAT
 GGCTGCCAGGATCAGAATGGCCTCACCTCATTTATCTGACACAGAGTTATTCTAGGTGTTCTCCCTTCA
 TTTGGCTAAATGTATCCATTTAAAGCTATGCGTTGATTAAAGTTAGTGTCTTAATCTCTTGATGTCTCA
 AAATGAATTTGCATGTTTCAGTGGCATTATATAATCAAGCCCAAGTGCTAAAAACATCTTACTTTATACC
 CTCCTTACACCTGCTGCTCCTGGAAAAGGAGCCCTCGAAACGAAGAAGTGGTGTGAGTTATACGCAA
 GGAGTGTGGGTACTGATATCAGGCACTGAAGGTAGGAAAGCCGTAGCTGTGAGAAGGAGCCAGAAATCT
 CAGGAATAGCAAAGGACTAAGTGTGAGGGAGAAATGGAAGTGATAAAAGATCACAGAGATGTATTTTAT
 CTTAGTAACCTGAGGGTTAAAGGCTGGAATACAGTAATTCTTAAAGAGGCCCATGTCTTTCTCTTGGTTCTTTC
 TTGGGAAAATTCCTTTTCTGACATTTTATCATAGTACCCTAAACCATGTCTTTCTCTTGGTTCTTTC
 TTTTACTGATTTATTTATGTGCATCAGCGTTCTGCCAGTGTGTGTGACTATGTGAGTGTGGATCCCC
 TGACACTGGAGTTACAGACAGTTGTAAGCTGCTATGTGGGTGCTGGAAATTGAACCCAGGTCCTGAGGAA
 GAGCAACAGTGTCTTAAATGCTGAGCCATCTCTTCAGCCTCTCTTGGTTTCTTGAGACAGAGTCTCT
 CTATGCAGCCTTGGCTGACCTGGAATATAATCACATTTCCAAGAGAATAAAAGACACATAAGCCCTTAA
 AAGGAAAAAAAAAAAAAAAAAAAAAAAAA
 AA A

Restriction Sites: RsrII-NotI

ACCN: NM_007538

Insert Size: 1041 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).

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC026021](#), [AAH26021](#)

RefSeq Size: 2521 bp

RefSeq ORF: 1041 bp

Locus ID: 12057

UniProt ID: [P51491](#)

Cytogenetics: 6 A3.3

Gene Summary: Visual pigments are the light-absorbing molecules that mediate vision. They consist of an apoprotein, opsin, covalently linked to cis-retinal (By similarity). Required for the maintenance of cone outer segment organization in the ventral retina, but not essential for the maintenance of functioning cone photoreceptors (PubMed:21219924, PubMed:25416279). Involved in ensuring correct abundance and localization of retinal membrane proteins (PubMed:25416279). May increase spectral sensitivity in dim light (PubMed:11055434). [UniProtKB/Swiss-Prot Function]