

Product datasheet for **MC216300**

Opn4 (NM_001128599) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Opn4 (NM_001128599) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Opn4
Synonyms:	1110007J02Rik; Gm533
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216300 representing NM_001128599
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACTCTCCTTCAGGACCAAGAGTCTTGCAAGCTTAAGTCCAGGATCCAGCTTCACAACCAGTCTCTG
 CCCTGCAAGGCATTTGGAACGGCACTCAGAACGCTCTCCGTAAGAGCCAGCTTCTCTGTTAGCCCCAC
 GACATCTGCACATCAGGCTGCTGCTGGTCCCTTCCACAGTCGATGTCAGACCATGCTCACTAT
 ACCCTAGGCACGGTGATCCTGCTGGTGGGACTCACAGGGATGCTGGGCAATCTGACGGTCATCTACACCT
 TCTGCAGGAACAGAGGCCTGCGGACACCAGCAAACATGTTTCATCATCAACCTCGCAGTCAGCGACTTCT
 CATGTCAGTCACTCAGGCCCGGTCTTCTTTGCCAGCAGCCTCTACAAGAAGTGGCTCTTTGGGGAGACA
 GGTTCGAGTTCTATGCCTTCTGCGGGGTGTCTTTGGCATCACTCCATGATCACCTGACAGCCATAG
 CCATGGACCGCTATCTGGTGATCACACGTCACCTGGCCACCATCGGCAGGGGATCCAAAAGACGAACGGC
 ACTCGTCTGCTAGGCGTCTGGTCTTATGCCCTGGCCTGGAGTCTGCCACCTTTCTTTGGTGGAGTGCC
 TACGTGCCCGAGGGGCTGCTGACATCCTGCTCCTGGGACTACATGACCTTACACCCAGGTGCGTGCCT
 ACACCATGCTGCTCTTCTGCTTTGTCTTCTTCCCTCCCTGCTCATCATCATCTTCTGCTACATCTTCAT
 TTTCAGGGCCATCCGAGAGACAGGCCGGCCCTGTGAGGGCTGCGGTGAGTCCCCTCTGCGGCAGAGGCGG
 CAGTGGCAGCGGCTGCAGAGTGAAGATGGCCAAGTGCAGTCTGATGTCATTCTTCTCTTCGTGC
 TGTCTGGGCTCCCTACTCCACTGTGGCTCTGGTGGCCTTTGCTGGATACTCGCACATCTGACGCCCTA
 CATGAGCTCGGTGCCAGCCGTCATCGCCAAGGCTTCTGCCATCCCAATCCCATTATCTACGCCATCACT
 CACCCCAAGTACAGGGTGGCCATTGCCAGCACCTGCCTGGCTTGGGGTGTCTCGGTGATCAGGCC
 AGCGCAGCCACCCCTCCCTCAGTACCGCTCTACCCACCGTCCACATTGAGCAGCCAGTCTCAGACCT
 CAGCTGGATCTCTGGACGGAAGCGTCAAGAGTCCCTGGGTTCTGAGAGTGAAGTGGGCTGGACAGACACA
 GAAACAACCGCTGCATGGGGAGCTGCCAGCAAGCAAGTGGACAGTCTTCTGCAGTCAGAACCTAGAAG
 ATGGAGAACTCAAGGCCTCTCCAGCCCCAGACCAAGGGACACCTCCCAAGTCTGGATCTCGGGATGTA
 G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Chromatograms:** https://cdn.origene.com/chromatograms/ja3305_f07.zip
- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001128599
- Insert Size:** 1401 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.

RefSeq: [NM_001128599.1](#), [NP_001122071.1](#)

RefSeq Size: 2259 bp

RefSeq ORF: 1401 bp

Locus ID: 30044

UniProt ID: [Q9QXZ9](#)

Cytogenetics: 14 B

Gene Summary: Photoreceptor required for regulation of circadian rhythm. Contributes to pupillar reflex and other non-image forming responses to light. May be able to isomerize covalently bound all-trans retinal back to 11-cis retinal.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) includes an alternate exon in the 3' coding region and 3' UTR. It encodes isoform 2 which is shorter and has a distinct C-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.