

## Product datasheet for **MC217452**

### **Opn4 (NM\_013887) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Opn4 (NM_013887) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Opn4
Synonyms:	1110007J02Rik; Gm533
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC217452 representing NM\_013887  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGACTCTCCTTCAGGACCAAGAGTCTTGTCAAGCTTAACTCAGGATCCAGCTTCACAACCAGTCTCTG  
CCCTGCAAGGCATTTGGAACGGCACTCAGAACGTCTCCGTAAGAGCCAGCTTCTCTGTAGCCCCAC  
GACATCTGCACATCAGGCTGCTGCTGGGTCCCTTCCCCACAGTCGATGTCCCAGACCATGCTCACTAT  
ACCCTAGGCACGGTGATCCTGCTGGTGGGACTCACAGGGATGCTGGGCAATCTGACGGTCATCTACACCT  
TCTGCAGGAACAGAGGCCTGCGGACACCAGCAAACATGTTTCATCATCAACCTCGCAGTCAGCGACTTCT  
CATGTCAGTCACTCAGGCCCGGTCTTCTTTGCCAGCAGCCTCTACAAGAAGTGGCTCTTTGGGGAGACA  
GGTTGCGAGTTCTATGCCTTCTGCGGGGTGTCTTTGGCATCACTTCCATGATCACCTGACAGCCATAG  
CCATGGACCGCTATCTGGTGATCACACGTCACCTGGCCACCATCGGCAGGGGATCCAAAAGCAACGGC  
ACTCGTCTGCTAGGCGTCTGGCTTTATGCCCTGGCTGGAGTCTGCCACCTTTCTTTGGTTGGAGTGCC  
TACGTGCCCGAGGGGCTGCTGACATCCTGCTCCTGGGACTACATGACCTTACACCCCAGGTGCGTGCT  
ACACCATGCTGCTCTTCTGCTTTGTCTTCTTCTCCCTGCTCATCATCATCTTCTGCTACATCTTTCAT  
CTTCAGGGCCATCCGAGAGACAGGCCGGGCTGTGAGGGCTGCGGTGAGTCCCCTCTGCGGCAGAGGCGG  
CAGTGGCAGCGGCTGCAGAGTGAGTGGAAGATGGCCAAGTGCCTGATTTGTCATTCTTCTCTTCGTGC  
TGTCTGGGCTCCCTACTCCACTGTGGCTCTGGTGGCCTTTGCTGGATACTCGCACATCCTGACGCCCTA  
CATGAGCTCGGTGCCAGCCGTCATCGCCAAGGCTTCTGCCATCCCAATCCCATTATCTACGCCATCACT  
CACCCCAAGTACAGGGTGGCCATTGCCAGCACCTGCCTTGCTTGGGGTGTCTCGGTGTATCAGGCC  
AGCGCAGCCACCCCTCCCTCAGCTACCGCTCTACCCACCGTCCACATTGAGCAGCCAGTCCCTCAGAC  
CAGCTGGATCTCTGGACGGAAGCGTCAAGAGTCCCTGGGTCTGAGAGTGAAGTGGGCTGGACAGACACA  
GAAACAACCGCTGCATGGGGAGCTGCCAGCAAGCAAGTGGACAGTCTTCTGCAGTCAGAACCTAGAAG  
ATGGAGAACTCAAGGCCTCTTCCAGCCCCAGGTACAGAGATCTAAGACTCCCAAGGTGCCTGGACCCAG  
TACCTGCCCCCTATGAAAGGACAGGGAGCCAGGCCAAGTAGCCTAAGGGGTGACCAGAAAGGCAGGCTT  
GCTGTGTGCACAGGCCTCTCAGAGTGTCCCATCCCCATACATCCAGTTTCCCTTGCTTCTAGAGG  
ATGATGTGACTCTCAGACATCTG**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_013887

**Insert Size:** 1566 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_013887.2, NP_038915.1</u>
<b>RefSeq Size:</b>	2156 bp
<b>RefSeq ORF:</b>	1566 bp
<b>Locus ID:</b>	30044
<b>UniProt ID:</b>	<u>Q9QXZ9</u>
<b>Cytogenetics:</b>	14 B
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript but encodes the longer 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.</p>