

## Product datasheet for MR224829

### Opn3 (NM\_010098) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Opn3 (NM\_010098) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Opn3  
 Synonyms: Ecpn; ERO  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >MR224829 representing NM\_010098  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTA**CTCGGGAA**CCGTAGTGGCGACCAGGGCTACTGGGAGGACGGGGCGGGCCGAGGGCGCAGCAC  
 CGGCGGGCACGCGGAGCCCCGCGCCTCTCTTCAGCCCCACCGGTACGAGCGCCTGGCGTGCTACTCGG  
 CTGCCTCGCGTCTGGGCGTGGCGGCAACCTGCTGGTCTGCTTCTACTCCAAGTCCCGAGACTG  
 CGCAGCCCCACCACTTCTGGTCAACCTGAGCCTGGGCGACCTGCTGGTATCCCTGTTCCGGAGTCA  
 CCTTACCTTCGCGTCGTGCCTGCGGAACGGCTGGGTGTGGGACCGCTGGGCTGCGCGTGGGACGGTT  
 TAGCGGCAGCCTCTTTGGGTTCTGTTCCATTACCACCCTCACTGTGCTGGCCTATGAACGTTATATCCGT  
 GTGGTACATGCCAGAGTGATCAACTTTTCTGGGCTGGAGGGCCATTACCTATATCTGGCTCTACTCCT  
 TGGCATGGGCAGGAGCACCTCTCCTGGGCTGGAACAGGTACATCCTAGACATACATGGACTGGGCTGTAC  
 CGTGGACTGGAGATCCAAGGATGCCAACGACTTCTCCTTTGTGCTCTTCTGTTTCTCGGCTGCCTGGT  
 GTGCCCGTGGGCATCATAGCCCATTGCTACGGCCACATTCTATTCTGTTTGAATGCTTCGCTGTGTTG  
 AAGATCTCAGACCATTCAAGTGATCAAGATGCTAAGATATGAAAAGAAAGTAGCAAAGATGTGCTTTTT  
 GATGGCCTTTGTCTTCTCACCTGCTGGATGCCTTACATTGTGACCCGCTTCTTGGTGGTCAATGGCTAT  
 GGACACCTGGTCACCCCAACTGTGTCCATTGTTTCTTATCTCTTTGCTAAATCGAGCACTGTGTACAAC  
 CAGTTATCTACATCTTCATGAACAGAAAAGTTTCGGAGGTCCTTCTGCAGCTCCTATGCTCCGCTGCT  
 GAGATGCCAGCGCCTGCTAAAAACCTCCAGCGGCTGAGAGTGAATGCACATCAGGCCATCGTGATG  
 TCACAGAAAGATGGGACAGGCCAAAGAAGAAAGTGACCTTTAACTCTTCTCTATCATCTTTATCATCA  
 CCAGTGATGAGTCCCTGTGAGTCGAGGACAGTGACAGAAGCAGCGCATCTAAGGTCGATGTCATCCAAGT  
 GCGTCCTCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR224829 representing NM\_010098  
Red=Cloning site Green=Tags(s)

MYSGNRSQDQGYWEDGAGAEGAAPAGTRSPAPLFSPTAYERLALLGCLALLGVGGNLLVLLLYSKFPRL  
 RTPTHLFLVNLSLGDLVSLFGVTTFASCLRNGWVWDVAVGCAWDGFGSLFGFVSITTLTVLAYERYIR  
 VVHARVINFSWAWRAITYIWL YSLAWAGAPLLGWNRYILDHGLGCTVDWRSKDANDSSFVLFVFLGCLV  
 VPVGIIAHCYGHILYSRMLRCVEDLQTIQVIKMLRYEKKVAKMCFMAFVFLTCWMPYIVTRFLVNGY  
 GHLVTPTVSIVSYLFAKSSVYNPVIYIFMNRKFRRSLLQLLFCRLLRCQRPKNLPAAESEMHIRPIVM  
 SQKDGRPKKVVTFNSSSIIFIITSDELSVEDSDRSSASKVDVIQVRPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1964\\_e11.zip](https://cdn.origene.com/chromatograms/ja1964_e11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010098

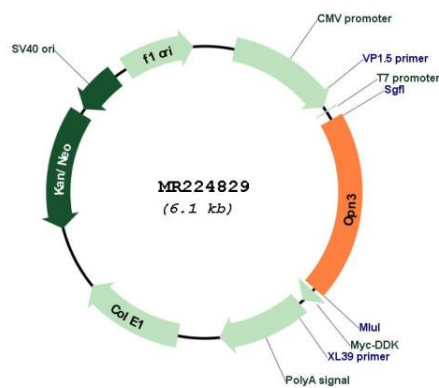
**ORF Size:** 1200 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>	<a href="#">NM_010098.3</a> , <a href="#">NP_034228.1</a>
<b>RefSeq Size:</b>	1721 bp
<b>RefSeq ORF:</b>	1203 bp
<b>Locus ID:</b>	13603
<b>UniProt ID:</b>	<a href="#">Q9WUK7</a>
<b>Cytogenetics:</b>	1 H3
<b>MW:</b>	45.4 kDa
<b>Gene Summary:</b>	May play a role in encephalic photoreception.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR224829