

Product datasheet for **MG224829**

Opn3 (NM_010098) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Opn3 (NM_010098) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Opn3
Synonyms:	Ecpn; ERO
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224829 representing NM_010098 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTA**CTCGGGAA**CCGTAGTGGCGACCAGGGCTACTGGGAGGACGGGGCGGGCCGAGGGCGCAGCAC
CGGCGGGCACGCGGAGCCCCGCGCCTCTCTTCAGCCCCACCGGTACGAGCGCCTGGCGTGCTACTCGG
CTGCCTCGCGTCTGGGCGTCGGCGGCAACCTGCTGGTCTGCTTCTACTCCAAGTCCCGAGACTG
CGCAGCCCAACCACTTCTCGTCAACCTGAGCCTGGGCGACCTGCTGGTATCCCTGTTCCGAGTCA
CCTTACCTTCGCGTCGTGCCTGCGGAACGGCTGGGTGTGGGACCCGTGGGCTGCGCGTGGGACGGGT
TAGCGGCAGCCTCTTTGGGTTCTGTTCCATTACCACCCTCACTGTGCTGGCCTATGAACGTATATCCGT
GTGGTACATGCCAGAGTGATCAACTTTTCTGGGCTGGAGGGCCATTACCTATATCTGGCTCTACTCCT
TGGCATGGGCAGGAGCACCTCTCCTGGGCTGGAACAGGTACATCCTAGACATACATGGACTGGGCTGTAC
CGTGGACTGGAGATCCAAGGATGCCAACGACTCTTCTTTGTGCTCTTCTGTTTCTCGGCTGCCTGGT
GTGCCCGTGGGCATCATAGCCCATTGCTACGGCCACATTCTATTCTGTTTGAATGCTTCGCTGTGTTG
AAGATCTCAGACCATTCAAGTGATCAAGATGCTAAGATATGAAAAGAAAGTAGCAAAGATGTGCTTTTT
GATGGCCTTTGTCTTTCTCACCTGCTGGATGCCTTACATTGTGACCCGCTTCTTGGTGGTCAATGGCTAT
GGACACCTGGTCACCCCAACTGTGTCCATTGTTTCTTATCTCTTTGCTAAATCGAGCACTGTGTACAAC
CAGTTATCTACATCTTCATGAACAGAAAAGTTTCGGAGGTCCTTCTGCAGCTCCTATGCTCCGCCTGCT
GAGATGCCAGCGCCTGCTAAAAACCTCCAGCGGCTGAGAGTGAATGCACATCAGGCCATCGTGATG
TCACAGAAAGATGGGACAGGCCAAAGAAGAAAGTGACCTTTAACTCTTCTCTATCATCTTTATCATCA
CCAGTGATGAGTCCCTGTGAGTCGAGGACAGTGACAGAAGCAGCGCATCTAAGGTCGATGTCATCCAAGT
GCGTCCTCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG224829 representing NM_010098
 Red=Cloning site Green=Tags(s)

MYSGNRSGDQGYWEDGAGAEGAAPAGTRSPAPLFSPTAYERLALLLGCLALLGVGGNLLVLLLYSKFPRL
 RTPTHLFLVNLSLGDLLVSLFGVTFTFASCLRNGWVWDVAVGCAWDGFGSLSLFGFVSITTLTVLAYERYIR
 VVHARVINFSWAWRAITYIWL YSLAWAGAPLLGWNRYILDHGLGCTVDWRSKDANDSSVFLFLGCLV
 VPVGGIAHCYGHILYSVRMLRCVEDLQTIQVIKMLRYEKKVAKMCFLMAFVFLTCWMPYIVTRFLVVNGY
 GHLVPTVTSIVSYLFAKSSVYNPVIYIFMNRKFRRSLQLLFCRLLRCQRPKNLPAAESEMHIRPIVM
 SQKDGRPKKQVTFNSSSIIFIITSDELSVEDSDRSSASKVDVIQVRPL

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1974_e06.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 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](#)

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:

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_010098.3](#), [NP_034228.1](#)

RefSeq Size: 1721 bp

RefSeq ORF: 1203 bp

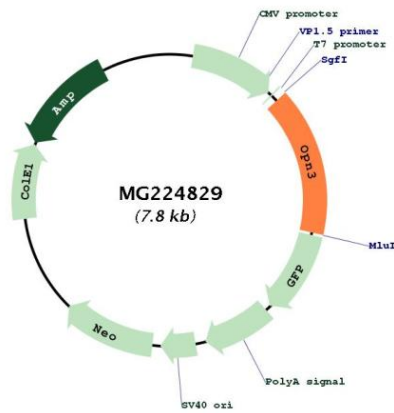
Locus ID: 13603

UniProt ID: [Q9WUK7](#)

Cytogenetics: 1 H3

Gene Summary: May play a role in encephalic photoreception.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224829