

Product datasheet for **RN211617**

Opn4 (NM_138860) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Opn4 (NM_138860) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Opn4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN211617 representing NM_138860
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACTCTCCTTCAGAATCAAGAGTCCCTTCAAGCTTAACTCAGGATCCAGCTTTACCGCCAGCCCTG
 CCCTCCTACAAGGCATTTGGAACAGCACTCAGAACATCTCCGTACAGTCCAGCTTCTATCCGTTAGCCC
 CACGACACCTGGGCTTCAGGCTGCTGCCTGGTCCCTTCCCCACAGTCGACGTCCAGATCATGCTCAC
 TATACCTAGGCACGGTATCCTGCTGGTGGGACTCACAGGGATGCTGGGTAACCTGACAGTCATCTACA
 CCTTCTGCAGGAATAGAGGCCTGCGGACACCGCAAAACATGCTCATCAACCTGGCAGTCAGCGACTT
 CCTATGTCGTTCACTCAGGCCCGGTCTTCTTTGCCAGCAGCCTCTACAAGAAGTGCTCTTCGGGGAG
 ACAGGTTGCAAGTTCTATGCCTTCTGTGGGGTGTCTTTGGCATCGTTCCATGATCACCCCTGACAGCCA
 TAGCCATGGACCGCTATCTGGTATCACACGTCCACTGGCCACCATCGGCATGAGATCCAAGAGACGGAC
 GGCCTAGTCTGCTAGGTGTCTGGCTCTATGCCCTGGCTGGAGTCTGCCGCTTCTTTGGCTGGAGC
 GCCTACGTGCCCGAGGGCTGCTGACATCCTGCTCCTGGGACTACGTGACCTTACGCCCCCTCGTGCGCG
 CCTACACCATGCTGCTCTTCTGCTTTGTCTTCTTCTCCCTCTGCTCATTATCATCTTCTGCTACATCTT
 CATCTTACAGGGCCATTCGAGAGACAGGCCGGCCCTGTGAGGGCTGTGGTGAAGTCCCTCTGCGGGCGCG
 CAGTGGCAGCGGCTACAGAGTGAATGGAAGATGGCCAAGTGCCTGATCGTCACTTCTCTCTTTGTGC
 TGTCTGGGCTCCCTACTCCACTGTGGCCCTGGTGGGCTTTGCTGGGTAAGTCCGACATCTGACGCCCTA
 CATGAGCTCGGTGCCAGCCGTCATTGCCAAGCCCTCGGCCATCCACAATCCTATCATCTATGCCATCACT
 CACCCCAAGTACAGGGCGGCCATTGCTCAGCACTACCCATCGCTCCACACTGAGCAGCCAGTCCAGACCT
 CAGCTGGATCTCTGGGCAGAAGCGCCAAGAGTCCCTGGGTTCTGAGAGTGAAGTGGGCTGGACAGACACA
 GAAACAACAGCTGCGTGGGGAGCTGCCAGCAAGCAAGTGGACAATCCTTCTGCAGTCATGACCTGGAAG
 ATGGAGAAGTCAAGGCTCCTTCCAGCCCCAGGAACAGAAATCCAAGACTCCAAGACCAAGAGACACCT
 CCCCAGTCTGGACCGAAGGAT**GTAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_138860
- Insert Size:** 1425 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_138860.1](#), [NP_620215.1](#)
RefSeq Size: 2258 bp
RefSeq ORF: 1425 bp
Locus ID: 192223
UniProt ID: [Q8R456](#)
Cytogenetics: 16p15
Gene Summary: visual pigment of phototransducing retinal ganglion cells involved in setting the circadian clock [RGD, Feb 2006]