

Product datasheet for **RG217260**

Peropsin (RRH) (NM_006583) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Peropsin (RRH) (NM_006583) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Peropsin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217260 representing NM_006583 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTAAGAAATAATTTAGGCAACAGTTCAGACTCTAAAAATGAAGATGGCTCGGTCTTTTCACAGACTG
 AACACAATATTGTTGCAACTTACTTGATTATGGCAGGTATGATAAGTATTATCAGCAACATAATAGTTCT
 GGGCATCTTCATTAAGTACAAGGAACCTCGGACACCCACAATGCAATTATTATTAACCTGGCTGTTACT
 GATATAGGGGTCAGTAGCATTGGCTATCCCATGTCTGCTGCCTCAGATCTGTATGGAAGTTGGAATTTG
 GATACGCAGGCTGTCAGGTTTATGCTGGATTGAATATTTTTTTTGAATGGCAAGCATTGGATTACTCAC
 GGTCTGGCTGTGGACCGATACCTGACCATCTGCCTTCCTGACGTAGGGAGAAGAATGACCACCAACT
 TACATCGGCTTGATTCTGGGAGCCTGGATCAATGGCCTGTTTTGGGCTTTGATGCCTATCATAGGTGGG
 CTAGTTATGCCCCAGATCCTACTGGTGCTACGTGTACCATAAACTGGAGGAAAAATGATAGATCTTTTGT
 GTCTTACACCATGACAGTTATTGCGATAAATTTATTGTGCCCTTGACAGTGATGTTTTACTGCTATTAC
 CATGTCACGCTATCCATTAAACATCACACTACCAGTGACTGCACTGAGTCCCTCAACAGAGACTGGTCAG
 ATCAGATAGATGTAACAAAGATGTCTGTGATCATGATCTGCATGTTTCTGGTGGCATGGTCCCCTTATTC
 CATCGTGTGCTTATGGGCTTCTTTTGGTGACCCAAAGAAGATTCTCCCCCATGGCCATCATAGTCCA
 CTGTTTGCAAAATCTTCTACATTCTATAACCCCTGCATTTATGTGGTTGCTAATAAAAAGTTTCGGAGGG
 CAATGCTTGCCATGTTCAAATGTGAGACTCACCAACAATGCCTGTGACAAGATTTTACCCATGGATGT
 ATCTCAAACCCATTGGCTTCTGGAAGAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG217260 representing NM_006583
 Red=Cloning site Green=Tags(s)

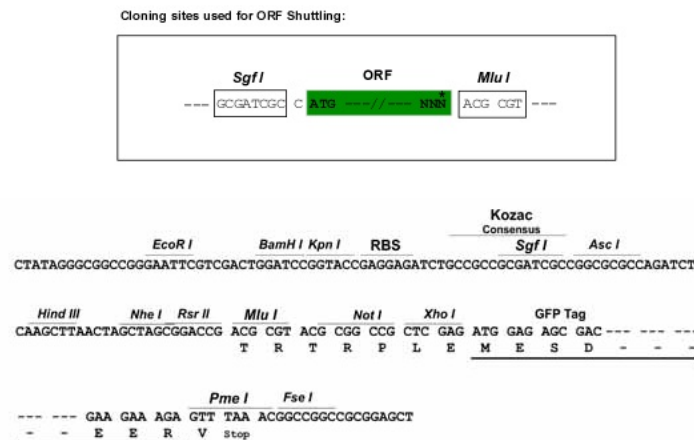
MLRNNLGNSSDSKNEGVSFVSQTEHNIVATYILMAGMISIIISNIIVLGIFIYKELRTPNTAIIINLAVT
 DIGVSSIGYPMSAASDL YGSWKFGYAGCQVYAGLNIFFGMASIGLLTVVAVDRYL TICLPDVGRRMTTNT
 YIGLILGAWINGLFWALMPIIGWASYAPDPTGATCTINWRKNDRSFVSYTMTVIAINFIVPLTVMFYCY
 HVTLSIKHHTTSDCTESLNRDQSDQIDVTKMSVIMICMFLVAWSPYSIVCLWASFQDPKKIPPPMAIIAP
 LFAKSSFTYNPCIVVANKKFRRAAMLAMFKCQTHQTMPVTSILPMDVSNPLASGRI

TRTRPLE – GFP Tag – V

Chromatograms: https://cdn.origene.com/chromatograms/ja3148_f07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006583

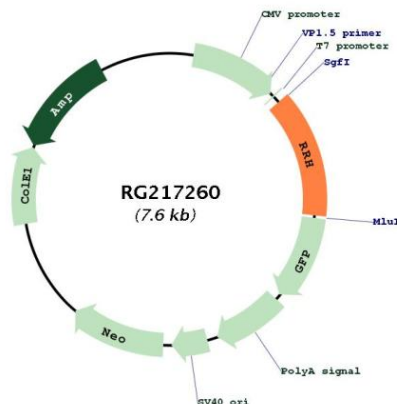
ORF Size: 1011 bp

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:	<u>NM_006583.5</u>
RefSeq Size:	1558 bp
RefSeq ORF:	1014 bp
Locus ID:	10692
UniProt ID:	<u>O14718</u>
Cytogenetics:	4q25
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	Opsins are members of the guanine nucleotide-binding protein (G protein)-coupled receptor superfamily. This gene belongs to the seven-exon subfamily of mammalian opsin genes that includes opsin 5 and retinal G protein coupled receptor. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG217260