

Product datasheet for **RC217260**

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:	Myc-DDK
Symbol:	Peropsin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217260 representing NM_006583 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTAAGAAATAATTTAGGCAACAGTTCAGACTCTAAAAATGAAGATGGCTCGGTCTTTTCACAGACTG
AACACAATATTGTTGCAACTTACTTGATTATGGCAGGTATGATAAGTATTATCAGCAACATAATAGTTCT
GGGCATCTTCATTAAGTACAAGGAACCTCGGACACCCACAAATGCAATTATTATTAACCTGGCTGTTACT
GATATAGGGGTCAGTAGCATTGGCTATCCCATGTCTGCTGCCTCAGATCTGTATGGAAGTTGAAATTTG
GATACGCAGGCTGTCAGGTTTATGCTGGATTGAATATTTTTTTTGAATGGCAAGCATTGGATTACTCAC
GGTCGTGGCTGTGGACCGATACCTGACCATCTGCCTTCCTGACGTAGGGAGAAGAATGACCACCAACACT
TACATCGGCTTGATTCTGGGAGCCTGGATCAATGGCCTGTTTTGGGCTTTGATGCCTATCATAGGTGGG
CTAGTTATGCCCCAGATCCTACTGGTGCTACGTGTACCATAAACTGGAGGAAAAATGATAGATCTTTGT
GTCTTACACCATGACAGTTATTGCGATAAATTTATTGTGCCCTTGACAGTGATGTTTTACTGCTATTAC
CATGTCACGCTATCCATTAAACATCACACTACCAGTGACTGCACTGAGTCCCTCAACAGAGACTGGTCAG
ATCAGATAGATGTAACAAAGATGTCTGTGATCATGATCTGCATGTTTCTGGTGGCATGGTCCCCTTATTC
CATCGTGTGCTTATGGGCTTCTTTTGGTGACCCAAAGAAGATTCTCCCCCATGGCCATCATAGTCCA
CTGTTTGCAAAATCTTCTACATTCTATAACCCCTGCATTTATGTGGTTGCTAATAAAAAGTTTCGGAGGG
CAATGCTTGCCATGTTCAAATGTGAGACTCACCAACAATGCCTGTGACAAGATTTTACCCATGGATGT
ATCTCAAAACCCATTGGCTTCTGGAAGAATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC217260 representing NM_006583
Red=Cloning site Green=Tags(s)

MLRNNLGNSSDSKNEGDSVFSQTEHNIVATYILMAGMISIIISNIIVLGIFIKYKELRTPTNAIINLAVT
DIGVSSIGYPMASASDLYGSKWFGYAGCQVYAGLNIFFGMASIGLLTVVAVDRYLITCLPDVGRMTNTNT
YIGILGAWINGLFWALMPIIGWASYAPDKTGATCTINWRKNDRSPFSVSYMTVIAINFVLPTVMFYCY
HVTLSIKHHTTSDCTESLNRDSDQIDVTKMSVIMICMFLVWSPSIVCLWASFGDPKKIPPPMAIIAP
LFAKSSFTFNPCCIYVVANKKFRAMLFMKCOTHOTMPVTSILPMDVSONPLASGRI

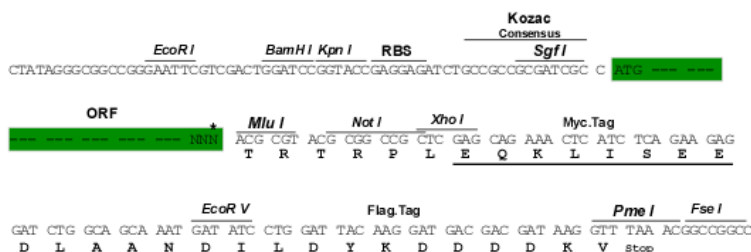
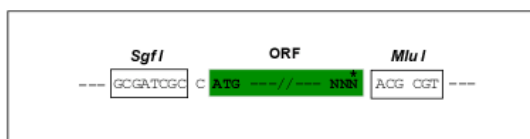
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6797_d08.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 006583

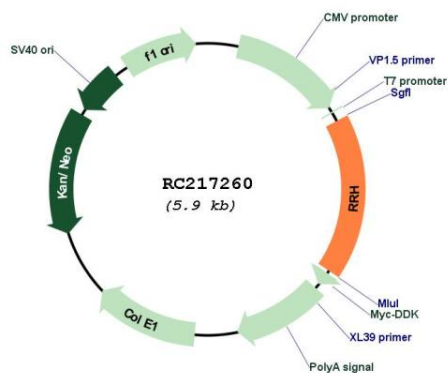
ORF Size: 1011 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_006583.5
RefSeq Size:	1558 bp
RefSeq ORF:	1014 bp
Locus ID:	10692
UniProt ID:	O14718
Cytogenetics:	4q25
Protein Families:	Druggable Genome, Transmembrane
MW:	37.2 kDa
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 RC217260