OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC207561

Peripherin (PRPH) (NM_006262) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Peripherin (PRPH) (NM_006262) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Peripherin
Synonyms:	NEF4; PRPH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

ORF Nucleotide Sequence:

>RC207561 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCCACCACCCGTCGGGCCTCCGGGCCGGCTTCAGCTCCACCTCATACCGCCGTACCTTCGGTCCAC
CGCCCTCACTATCCCCCGGGGCCTTCTCCTACTCGTCCAGCTCCCGCTTCTCCAGCAGCCGCCTGCTGGG
CTCCGCGTCCCCGAGCTCCTCGGTGCGCCTGGGCAGCTTCCGTAGCCCCCGAGCGGGAGCGGGCGCCCTC
CTGCGCCTGCCCTCGGAGCGCCTCGACTTCTCCATGGCCGAGGCCCTCAACCAGGAGTTCCTGGCCACGC
GCAGCAACGAGAAGCAGGAGCTGCAGGAGCTCAACGACCGCTTCGCCAACTTCATCGAGAAGGTACGCTT
TCTGGAGCAGCAGAACGCGGCCCTGCGCGGGGAGCTGAGCCAAGCCCGGGGCCAGGAGCCGGCGCGCGCC
GACCAGCTGTGCCAGCAGGAGCTGCGCGAGCTGCGGCGAGAGCTGGAGCTGTTGGGCCGCGAGCGTGACC
GGGTGCAGGTGGAGCGCGACGGGCTGGCGGAGGACCTGGCGGCGCTCAAGCAGAGGTTGGAGGAGGAGAC
GCGCAAGCGGGAGGACGCGGAGCACAACCTCGTGCTCTTCCGCAAGGACGTGGACGATGCCACTCTGTCC
CGCCTGGAACTAGAGCGCAAGATTGAGTCTCTGATGGATGAGATTGAGTTCCTCAAGAAGCTGCACGAGG
AGGAGCTGCGAGACCTGCAGGTGAGTGTGGAGAGCCAGCAGGTGCAGCAGGTGGAGGTGGAAGCCACGGT
GAAGCCCGAGCTGACGGCAGCGCTGAGGGACATCCGCGCGCAGTACGAGAGCATCGCCGCGAAGAACCTG
CAGGAGGCGGAGGAGTGGTACAAGTCCAAGTACGCGGACCTGTCCGACGCTGCCAACCGGAACCACGAGG
CCCTGCGCCAGGCCAAGCAGGAGATGAACGAGTCCCGACGCCAGATCCAGAGTCTAACGTGCGAGGTGGA
CGGGCTGCGCGGCACGAACGAGGCGCTGCTCAGGCAGTTGAGAGAGCTGGAGGAGCAGTTCGCCCTGGAG
GCGGGGGGCTACCAGGCGGGCGCTGCGCGGCTCGAGGAGGAGCTGCGACAGCTAAAAGAGGAGATGGCGC
GGCACCTGAGGGAGTACCAGGAGCTCCTCAACGTCAAGATGGCCCTGGACATCGAGATCGCCACCTACCG
CAAGCTGCTGGAGGGCGAGGAGAGCCGGATCTCCGTGCCCGTCCATTCTTTTGCCTCCTTAAATATAAAG
ACGACTGTGCCTGAGGTGGAGCCTCCCCAGGACAGCCACAGCCGGAAGACGGTTCTGATCAAGACCATTG
AGACCCGGAATGGGGAGGTGGTGACAGAGTCCCAGAAGGAGCAGCGCAGTGAGCTGGACAAGTCTTCTGC
CCACAGTTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207561 protein sequence
Red=Cloning site Green=Tags(s)

MSHHPSGLRAGFSSTSYRRTFGPPPSLSPGAFSYSSSSRFSSSRLLGSASPSSSVRLGSFRSPRAGAGAL
LRLPSERLDFSMAEALNQEFLATRSNEKQELQELNDRFANFIEKVRFLEQQNAALRGELSQARGQEPARA
DQLCQQELRELRRELELLGRERDRVQVERDGLAEDLAALKQRLEEETRKREDAEHNLVLFRKDVDDATLS
RLELERKIESLMDEIEFLKKLHEEELRDLQVSVESQQVQQVEVEATVKPELTAALRDIRAQYESIAAKNL
QEAEEWYKSKYADLSDAANRNHEALRQAKQEMNESRRQIQSLTCEVDGLRGTNEALLRQLRELEEQFALE
AGGYQAGAARLEEELRQLKEEMARHLREYQELLNVKMALDIEIATYRKLLEGEESRISVPVHSFASLNIK
TTVPEVEPPQDSHSRKTVLIKTIETRNGEVVTESQKEQRSELDKSSAHSY

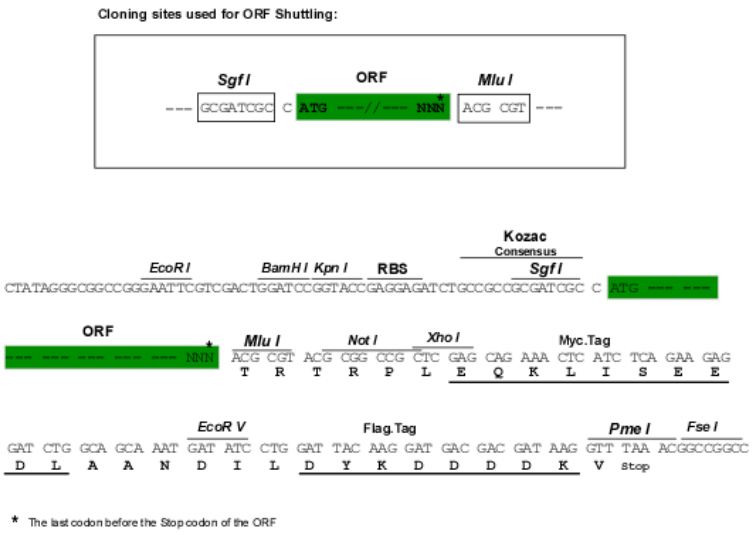
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6019_c07.zip

Restriction Sites: SgfI-MluI

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Cloning Scheme:



ACCN: NM_006262

ORF Size: 1410 bp

OTI Disclaimer: 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_006262.4

RefSeq Size: 1833 bp

RefSeq ORF: 1413 bp

Locus ID: 5630

UniProt ID: P41219

Cytogenetics: 12q13.12

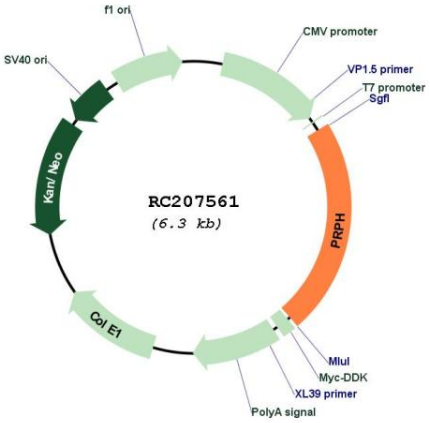
This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Protein Pathways: Amyotrophic lateral sclerosis (ALS)

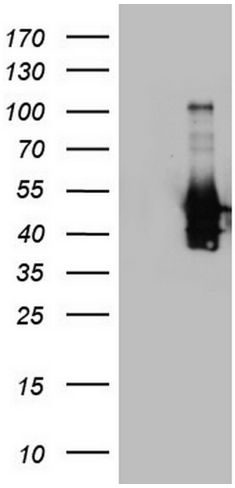
MW: 53.7 kDa

Gene Summary: This gene encodes a cytoskeletal protein found in neurons of the peripheral nervous system. The encoded protein is a type III intermediate filament protein with homology to other cytoskeletal proteins such as desmin, and is a different protein that the peripherin found in photoreceptors. Mutations in this gene have been associated with susceptibility to amyotrophic lateral sclerosis. [provided by RefSeq, Jul 2008]

Product images:

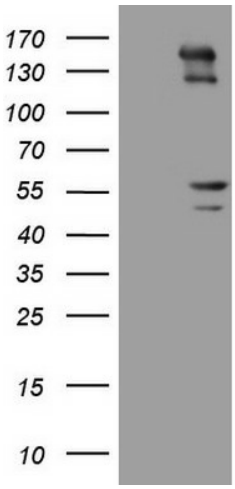


Circular map for RC207561

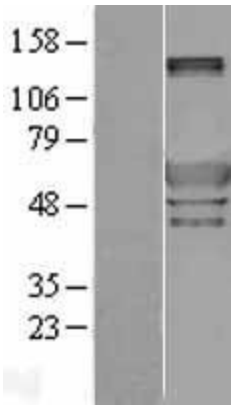


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PRPH (Cat# RC207561, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PRPH(Cat# [TA806183]). Positive lysates [LY401885] (100ug) and [LC401885] (20ug) can be purchased separately from OriGene.

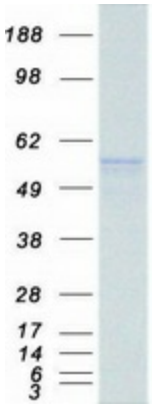
This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PRPH (RC207561, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PRPH ([TA806226]). Positive lysates [LY401885] (100ug) and [LC401885] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401885]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207561 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PRPH protein (Cat# [TP307561]). The protein was produced from HEK293T cells transfected with PRPH cDNA clone (Cat# RC207561) using MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US