

Product datasheet for **RG201193**

Perilipin 3 (PLIN3) (NM_005817) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Perilipin 3 (PLIN3) (NM_005817) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Perilipin 3
Synonyms:	M6PRBP1; PP17; TIP47
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201193 representing NM_005817 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGCCGACGGGCAGAGGCTGATGGCAGCACCCAGGTGACAGTGGAGAACCAGGTACAGCAGCCCA
GTGTGGTGGACCGTGTGGCCAGCATGCCTCTGATCAGCTCCACCTGCGACATGGTGTCCGACGCTATGC
CTCCACCAAGGAGAGCTACCCGCACATCAAGACTGTCTGCGACGCGAGAGAAGGGAGTGAGGACCCTC
ACGGCGGTGCTGTGACGGGGCTCAGCCGATCCTCTCCAAGCTGGAGCCCAAGATTGCATCAGCCAGCG
AATACGCCACAGGGGGCTGGACAAGTTGGAGGAGAACCCTCCCATCCTGCAGCAGCCACGGAGAAGGT
CCTGGCGGACACCAAGGAGCTTGTGTCTGCTAAGGTGTCGGGGGCCAAGAGATGGTGTCTAGCGCCAAG
GACACGGTGGCCACCAATTGTGCGAGGCGGTGGACGCGACCCGCGGTGCTGTGCAGAGCGGCGTGGACA
AGACAAAGTCCGTAGTGACCGGGCGGCTCCAATCAGTCATGGGCTCCCGCTTGGGCCAGATGGTGTGAG
TGGGGTGCACACGGTGTGGGAAGTCGGAGGAGTGGCGGACAACCACCTGCCCTTACGGATGCCGAA
CTGGCCCGCATCGCCACATCCCTGGATGGCTTCGACGTCGCGTCCGTGCAGCAGCAGCGGAGGAACAGA
GCTACTTCGTACGTCTGGGCTCCCTGTGCGAGAGGCTGCGGCAGCACGCCTATGAGCACTCGCTGGGCAA
GCTTCGAGCCACCAAGCAGAGGGCACAGGAGGCTCTGCTGCAGCTGTGCGAGGCCCTAAGCCTGATGGAA
ACTGTCAAGCAAGCGTTGATCAGAAGCTGGTGGAAAGGCCAGGAGAAGCTGCACCAGATGTGGCTCAGT
GGAACCAGAAGCAGTCCAGGGCCCCGAGAAGGAGCCGCCAAGCCAGAGCAGGTCGAGTCCCGGGCGCT
CACCATGTTCCGGGACATTGCCAGCAACTGCAGGCCACCTGTACCTCCCTGGGGTCCAGCATTCAGGGC
CTCCCCACCAATGTGAAGGACCAGGTGCAGCAGGCCCGCCGAGGTGGAGGACCTCCAGGCCACGTTTT
CCAGCATCCACTCCTTCCAGGACCTGTCCAGCAGCATTCTGGCCAGAGCCGTGAGCGTGTCCGACGCGC
CCGCGAGGCCCTGGACCACATGGTGAATATGTGGCCAGAACACACCTGTACGTGGCTCGTGGGACCC
TTTGCCCTGGAATCACTGAGAAAGCCCCGGAGGAGAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201193 representing NM_005817
 Red=Cloning site Green=Tags(s)

MSADGAEADGSTQVTVEEPVQQPSVVDVASMPLISSSTCDMVSAAYASTKESYPHIKTVCDAAEKGVRTL
 TAAAVSGAQPIILSKLEPQIASASEYAHRLDKLEENLPILQQPTEKVLADTKELVSSKVSQAQEMVSSAK
 DTVATQLSEAVDATRGAVQSGVDKTKSVVTGGVQSVMGSRLLGQMVLSGVDTVLKGSEEWADNHLPLTDAE
 LARIATSLDGFVDVASVQQRQEQSYFVRLGSLSERLRQHAYEHSLGKLRATKQRAQEALLQLSQALSLME
 TVKQGVDQKLVEGQEKLHQMWLSWNQKQLQGPEKPEPPKPEQVESRALTMFRDIAAQLQATCTSLGSSIQG
 LPTNVKDQVQQARRQVEDLQATFSSIHFSFDLSSSILAQSRERVASAREALDHMVEYVAQNTPTVTLVGP
 FAPGITEKAPEEKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005817

ORF Size: 1302 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_005817.2](#)

RefSeq Size: 2241 bp

RefSeq ORF: 1305 bp

Locus ID: 10226

UniProt ID: [O60664](#)

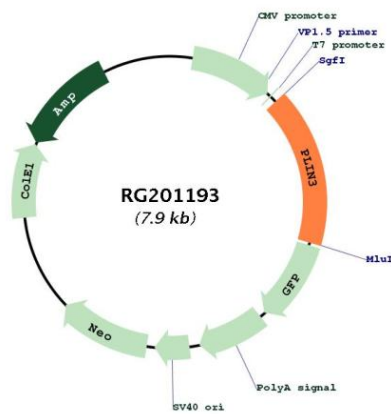
Cytogenetics: 19p13.3

Domains: perilipin

Protein Families: Druggable Genome

Gene Summary: Mannose 6-phosphate receptors (MPRs) deliver lysosomal hydrolase from the Golgi to endosomes and then return to the Golgi complex. The protein encoded by this gene interacts with the cytoplasmic domains of both cation-independent and cation-dependent MPRs, and is required for endosome-to-Golgi transport. This protein also binds directly to the GTPase RAB9 (RAB9A), a member of the RAS oncogene family. The interaction with RAB9 has been shown to increase the affinity of this protein for its cargo. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Aug 2009]

Product images:



Circular map for RG201193