

Product datasheet for **RG228339**

Perilipin 3 (PLIN3) (NM_001164194) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Perilipin 3 (PLIN3) (NM_001164194) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLIN3
Synonyms:	M6PRBP1; PP17; TIP47
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228339 representing NM_001164194 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTGCCGACGGGCAGAGGCTGATGGCAGCACCCAGGTGACAGTGGGAAGAACCAGGTACAGCAGCCCA
GTGTGGTGGACCGTGTGGCCAGCATGCCTCTGATCAGCTCCACCTGCGACATGGTGTCCGACGCCTATGC
CTCCACCAAGGAGAGCTACCCGCACATCAAGACTGTCTGCGACGACGAGAGAAGGGAGTGAGGACCCTC
ACGGCGGTGCTGTGACGGGGCTCAGCCGATCCTCTCCAAGCTGGAGCCCCAGATTGCATCAGCCAGCG
AATACGCCACAGGGGGCTGGACAAGTTGGAGGAGAACCTCCCCATCCTGCAGCAGCCCACGGAGAAGGT
GTCGGGGGCCAAGAGATGGTGTCTAGCGCCAAGGACACGGTGGCCACCCAATTGTCGGAGCGGTGGAC
GCGACCCGCGGTGCTGTGACAGCGCGCTGGACAAGACAAGTCCGTAGTGACCGCGCGCTCCAATCGG
TCATGGGCTCCCGCTTGGGCCAGATGGTGTGAGTGGGGTTCGACACGGTCTGGGGAAGTCGGAGGAGTG
GGCGGACAACCACCTGCCCTTACGGATGCCGAAGTGGCCGCATCGCCACATCCCTGGATGGCTTTGAC
GTCGCGTCCGTGCAGCAGCAGCGGCAGGAACAGAGCTACTTCGTACGTCTGGGCTCCCTGTGCGAGAGGC
TGCGGCAGCACGCTATGAGCACTCGTGGCAAGCTTCGAGCCACCAAGCAGAGGGCACAGGAGGCTCT
GCTGCAGTGTGCGAGTCCCTAAGCCTGATGAAAAGTCAAGCAAGGCGTTGATCAGAAGCTGGTGGAA
GGCCAGGAGAAGCTGCACAGATGTGGCTCAGCTGGAACCAAGCAGCTCCAGGGCCCCGAGAAGGAGC
CGCCCAAGCCAGAGCAGGTGAGTCCCGGGCGCTCACCATGTTCCGGGACATTGCCAGCAACTGCAGGC
CACCTGTACCTCCCTGGGGTCCAGCATTAGGGCCTCCCCACCAATGTGAAGACCAGGTGCAGCAGGCC
CGCCGCCAGTGGAGGACCTCCAGGCCAGCTTTCCAGCATCCACTCCTTCCAGGACCTGTCCAGCAGCA
TTCTGGCCAGAGCCGTGAGCGTGTGCGCAGCGCCCGGAGGCCCTGGACCACATGGTGGAAATGTGGC
CCAGAACACACCTGTACGTGGCTCGTGGGACCCTTGGCCCTGGAACTACTGAGAAAGCCCCGGAGGAG
AAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228339 representing NM_001164194
 Red=Cloning site Green=Tags(s)

MSADGAEADGSTQVTVEEPVQQPSVVDVRSAMPLISSITCDMVSAAYASTKESYPHIKTVCDAAEKVRTL
 TAAAVSGAQPIILSKLEPQIASASEYAHRLDKLEENLPILQQPTEKVSQAQEMVSSAKDVTATQLSEAVD
 ATRGAVQSGVDKTKSVVTGGVQSVMGSRLLGQMVLSGVDTVLGKSEEWADNHLPLTDAELARIATSLDGF
 VASVQQRQEQSYFVRLGSLSERLRQHAYEHSLGKLRATKQRAQEALLQLSQVLSLMEVTKQGVQDKLVE
 GQEKLHQMWLSWNQKQLQGPEKEPPKPEQVESRALTMFRDIAQQLQATCTSLGSSIQGLPTNVKDVQQA
 RRQVEDLQATFSSIHSFQDLSSILAQSRERVASAREALDHMVEYVAQNTPVVTWLVGPFAPGITTEKAPEE
 KK

TRTRPLE - GFP Tag - V

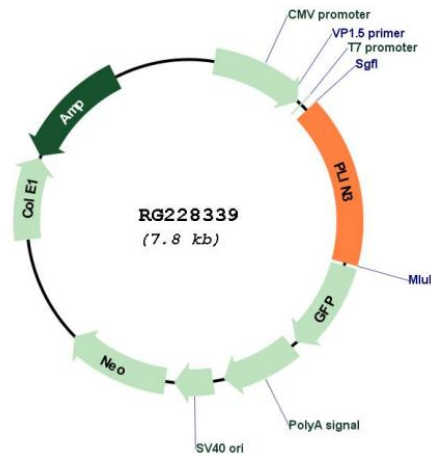
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001164194

ORF Size:	1266 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:	<ol style="list-style-type: none">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_001164194.2
RefSeq Size:	2304 bp
RefSeq ORF:	1269 bp
Locus ID:	10226
UniProt ID:	O60664
Cytogenetics:	19p13.3
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]