

Product datasheet for **MG222553**

Plin1 (NM_175640) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plin1 (NM_175640) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Plin1
Synonyms:	6030432J05Rik; Peri; Plin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222553 representing NM_175640
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAATGAACAAGGGCCCAACCTGCTGGATGGAGACCTCCCTGAGCAGGAGAACGTGCTCCAGAGAG
 TTCTGCAGCTGCCTGTGGTGAGCGGACCTGTGAGTGCTTCCAGAAGACCTACAACAGCACCAAAGAAGC
 CCACCCCTGGTGGCCTCTGTGTGCAATGCCTATGAGAAGGGTGTACAGGGTGCCAGCAACCTGGCTGCC
 TGGAGCATGGAGCCGGTGGTCCGTGGCTGCCACCCAGTTCACAGCTGCCAATGAGTTGGCCTGCAGAG
 GCCTGGACCACCTGGAGGAAAAGATCCCGGCTCTCAATACCCTCCAGAAAAGATCGCCTCTGAAGTAA
 GGGCACCATCTACCCGCCTCGAAGCGCCAGGAACAGCATCAGTGTGCCATTGCAAGCACCTCTGAC
 AAGTTCTGGGGCCACTCTGGCCGGCTGCGAGCTTGCCTGGGGATGGCCAAAGAGACAGCAGAATATG
 CCGCCAACACCCGGTGGCCGACTGGCCTCTGGAGGGGCTGATCTGGCTCTGGGAAGCATCGAGAAGT
 GGTAGAGTTCTCTGCCACCAGACAAGGAGTCAGCCCTTCTCCGGACGCGAGGACCCAGAAGGCT
 CCCAAGGCCAAACCAAGCCTTGTGAGGAGGGTCAGCACCTGGCCAACACTCTTTCTCGACACACCATGC
 AAACCACAGCATGGGCCCTGAAGCAGGGCCACTCTCTGGCCATGTGGATCCCGGGTGTGGCACCCCTGAG
 CAGCCTGGCCAGTGGGGCGCATCGGCAGCCATGCAGGTGGTGTCCCGGGCGCAGAGTGGGTGGGGTG
 CCCTGGCTGCACAACCTGGCAGCCTCTCAGGATGAGAGCCATGACGACCAGACAGACAGAGGGGAGAGG
 AGACAGACGACGAGGAGGAGGAAGAAGAGTCCGAGGCTGAGGAGAACGTGCTCAGAGAGGTTACAGCCCT
 GCCCAACCCGAGAGGCCCTCTGGGTGGTGTGGTACACACCGTGCAGAACACTCTCCGGAACACCATCTCC
 GCAGTACCTGGGCACCTGCGGCTGTGCTGGGCACGGTGGGAAGGATCCTGCACCTCACACCAGCCGAGG
 CTGTCTCTCTACCAAAGGGAGGGCCATGTCCTATCCGATGCCCTGAAGGGTGTACGGATAACCTGGT
 AGACACTGTGGTACACTATGTGCCGCTTCCAGGCTGTCCTGATGGAGCCCGAGAGCGAATCCGAGAC
 ATCGATAACCTTCAGCAGAGGCGGAGCGCAAAGGGTCCGGGGCGCGCCCGCCAGCCCGGAGTCCACCC
 CGCGCCCGGGCCAGCCCGCGGCAGCTTGCAGCAGCTGCGGGGTCTCAGCGCGCCCTCTGCCCCGGCT
 GGACGACAAAACCGAGGCGTCAGCGCTCCCGGCTTCTGGCTATGCCAGAGAGAAGCCTGCGCGCAGA
 GTCAGCGACAGCTTCTCCGGCCAGCGTCATGGAGCCCATCTGGGCCGCGCAGTACAGCCAGCTGC
 GCAAGAAGAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG222553 representing NM_175640
 Red=Cloning site Green=Tags(s)
 MSMNKGPTLLDGDLPENLQVRLQLPVVSGTCECFQKTYNSTKEAHLVASVCNAYEKGVQASNLAA
 WSMPEVRRRLSTQFTAANELACRGLDHLEEKIPALQYPPEKIASSELKGTISTRLSARNISVPIASTSD
 KVLGATLAGCELALGMAKETAEYAANTRVGRASGGADLALGSIEKVVEFLLPPDKEAPSSGRQRTQKA
 PKAKPSLVRRVSTLANTLSRHTMQTTAWALKQGHSLAMWIPGVAPLSSLAQWGASAAMQVVSRRQSEVRV
 PWLHNLAAASQDESHDDQTDTEGEETDDEEEEESEAEENVLREVTALPNRGLLGGVVHTVQNTLRNTIS
 AVTWAPAVLGTVGRILHLTPAQAVSSTKGRAMSLSDALKGVTDNVVDVTVHYVPLPRLSLMEPESEFRD
 IDNPSAEAEKRGSGARPASPESTPRPGQPRGSLRSVRGLSAPSCPGLDDKTEASARPGFLAMPREKPAR
 VDSFFRPSVMEPI LGRAQYSQLRKKS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_175640

ORF Size: 1551 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).

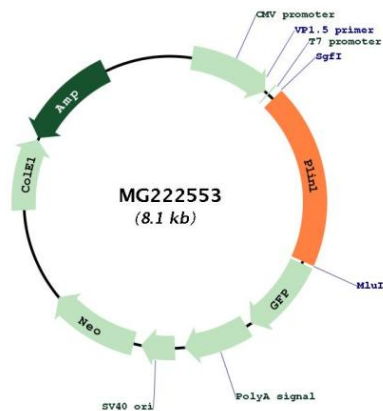
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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: [NM_175640.2](#), [NP_783571.2](#)

RefSeq Size: 1935 bp
 RefSeq ORF: 1554 bp
 Locus ID: 103968
 UniProt ID: [Q8CGN5](#)
 Cytogenetics: 7 D2

Gene Summary: Modulator of adipocyte lipid metabolism. Coats lipid storage droplets to protect them from breakdown by hormone-sensitive lipase (HSL). Its absence may result in leanness (By similarity). Plays a role in unilocular lipid droplet formation by activating CIDEC. Their interaction promotes lipid droplet enlargement and directional net neutral lipid transfer. May modulate lipolysis and triglyceride levels.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG222553