

## Product datasheet for **MG208288**

### 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:**

>MG208288 representing NM\_175640  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCAATGAACAAGGGCCCAACCTGCTGGATGGAGACCTCCCTGAGCAGGAGAACGTGCTCCAGAGAG  
 TTCTGCAGCTGCCTGTGGTGAGCGGACCTGTGAGTGCTTCCAGAAGACCTACAACAGCACCAAAGAAGC  
 CCACCCCTGGTGGCCTCTGTGTGCAATGCCTATGAGAAGGGTGTACAGGGTGCCAGCAACCTGGCTGCC  
 TGGAGCATGGAGCCGGTGGTCCGTGGCTGTCCACCCAGTTCACAGCTGCCAATGAGTTGGCCTGCAGAG  
 GCCTGGACCACCTGGAGGAAAAGATCCCGGCTCTCAATACCCTCCAGAAAAGATCGCCTCTGAAGTAA  
 GGGCACCATCTACCCGCCTCGAAGCGCCAGGAACAGCATCAGTGTGCCATTGCAAGCACCTCTGAC  
 AAGTTCTGGGGCCACTCTGGCCGGCTGCGAGCTTGCCTGGGGATGGCCAAAGAGACAGCAGAATATG  
 CCGCCAACACCCGGTGGCCGACTGGCCTCTGGAGGGGCTGATCTGGCTCTGGGAAGCATCGAGAAGGT  
 GGTAGAGTTCTCTGCCACCAGACAAGGAGTCAGCCCTTCTCCGGACGCGAGAGGCCAGAAGGCT  
 CCCAAGGCCAAACCAAGCCTTGTGAGGAGGGTCAGCACCTGGCCAACACTCTTTCTCGACACACCATGC  
 AAACCACAGCATGGGCCCTGAAGCAGGGCCACTCTCTGGCCATGTGGATCCCGGGTGTGGCACCCCTGAG  
 CAGCCTGGCCAGTGGGGCGCATCGGCAGCCATGCAGGTGGTGTCCCGGGCGCAGAGTGGGTGGGGTG  
 CCCTGGCTGCACAACCTGGCAGCCTCTCAGGATGAGAGCCATGACGACCAGACAGACAGAGGGGAGAGG  
 AGACAGACGACGAGGAGGAGGAAGAAGAGTCCGAGGCTGAGGAGAACGTGCTCAGAGAGGTTACAGCCCT  
 GCCCAACCCGAGAGGCCCTCTGGGTGGTGGTACACACCGTGCAGAACACTCTCCGGAACACCATCTCC  
 GCAGTACCTGGGCACCTGCGGCTGTGCTGGGCACGGTGGGAAGGATCCTGCACCTCACACCAGCCGAGG  
 CTGTCTCTCTACCAAAGGGAGGGCCATGTCCTATCCGATGCCCTGAAGGGTGTACGGATAACCTGGT  
 AGACACTGTGGTACACTATGTGCCGCTTCCAGGCTGTCCTGATGGAGCCCGAGAGCGAATCCGAGAC  
 ATCGATAACCTTCAGCAGAGGGCGAGCGCAAAGGGTCCGGGGCGCGCCCGCCAGCCCGGAGTCCACCC  
 CGCGCCCGGGCCAGCCCGCGGCAGCTTGCAGCAGCTGCGGGGTCTCAGCGCGCCCTCTGCCCCGGCT  
 GGACGACAAAACCGAGGCGTCAGCGCGTCCCGGCTTCTGGCTATGCCCAGAGAGAAGCCTGCGCGCAGA  
 GTCAGCGACAGCTTCTCCGGCCAGCGTCATGGAGCCCATCCTGGGCCGCGCAGTACAGCCAGCTGC  
 GCAAGAAGAGC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208288 representing NM\_175640  
 Red=Cloning site Green=Tags(s)

MSMNGKPTLLDGLPEQENVLQRVLQLPVVSGTCECFQKTYNSTKEAHLVASVCNAYEKGVQASNLAA  
 WSMEPVRRRLSTQFTAANELACRGLDHLEEKIPALQYPPEKIASSELKGTISTRRLSARNISVPIASTSD  
 KVLGATLAGCELALGMAKETAEYAANTRVGRLASGGADLALGSIEKVVEFLLPPDKE SAPSSGRQRTQKA  
 PKAKPSLVRRVSTLANTL SRHTMQTTAWALKQGHSLAMWIPGVAPLSSLAQWGASAAMQVVSRRQSEVRV  
 PWLHNLAA SQDESHDDQTDTEGEETDDEEEEESEAEENVLREVTALPNRGLLGGVVHTVQNTLRNTIS  
 AVTWAPAAVLGTVGRILHLTPAQAVSSTKGRAMSLSDALKGVTDNVVDTVVHYVPLPRLSLMEPESEFRD  
 IDNPSAEAEERKSGARPASPESTPRPGQPRGSLRSVRGLSAPSCPGLDDKTEASARPGFLAMPREKPARR  
 VDSFFRPSVMEPI LGRAQYSQLRKKS

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

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](mailto: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).

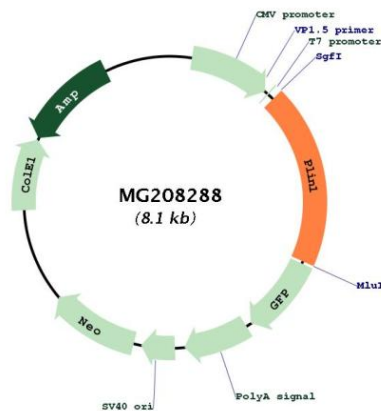
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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: 1843 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 MG208288