

Product datasheet for **RN201130**

Plin5 (NM_001134637) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plin5 (NM_001134637) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Plin5
Synonyms:	Oxpat
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN201130 representing NM_001134637
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACCAGAGAGCAAAGACACCACCCTAGCTCTACACAGCAGGATGTCCGGTATCAGACAGCTCAGG
 ACCCTGGATCCAGCCTGGGGAACTGGACCAGCACAACGTGGTGAAGCGAGTGGTGGCCTTGCCCTGGT
 CAGGGCCACGTGCACTGTGTGTCTGGTGCCTACAACAGCCAAAGGACAGGCACCCGCTGCTGGCTCT
 GCCTGCCGCTTTGCTGAACACTGTGTGTAGTGTGGCTACCTGTGCCCTGGACCACGCACAGCCACTGC
 TGGAGCACCTGCAGCCAAAGTTGGCCACAGTGAATGATCTTGCCTGCAGGGGACTAGACAAATTGGAAGA
 GAAGCTGCCCTTCTGCAGCAGCCATCGGACACGGTGGTACCTCAGCCAAGGATGCAGTGGCCAAAAGT
 GTCACAGGCGTGGTGGACCTGGCCAAAGGGGCCGGCGTTGGAGCGGGGAGCTGAGGCGCTCCGTGAGCC
 AAGCCATGGACACTGTGCTGAGGCGCTCCGTGAGCCAAGCCATGGACACTGTGCTGGCCAAATCAGAGGA
 GCTGGTGGACATTTCTGCCCATGACTGAAGCTGAGCTAGTGGCCCTGGCGACTGAGTCCAGGGCCCA
 GAAGTGGGCTCAGTGGAGGAGCAGAGGCAGAAACAGGGCTACTTTGTGCGTCTGGGATCCCTATCGGCAC
 GCCTCCGCCATCTTGCTATCAACACTCTTTGGGAAACTGAGGGAGAGCAAACACCCGCCACCCAGGAGAT
 GCTGGCCAGCTGCAGAAACTCTGGAGCTGATCCAGCATATGCAGAGTAGGGCAAGCCCCACCCCTACT
 TTCCATACCCAAAGGTCAGGAGCTTTGCGGGGACTGGAGCCATGTCTGGAGAATGGTACC GCCACA
 GCCAGTGGAGCTGGAGACACTGGCTCTGTGAGAAGTCTGACCTGGAGCTGCAGAGTGCAGTGGATGC
 CTTGCAGGCTGTGTTGCGGGCCTGCCCTAGTGCCAGGCCAAGGTGGCTGAAGTGCAGCGCAGTGTG
 GATGCTCTACAGCCACCTTTGCTGATGCACACTGCCTTGGTACGTGGCACCCACTGCTCTGGCTGAGG
 GCCAGGACAGCGTGGCCAGGCACATGCCTGTGTGGATGAGTTCCTGGATTGGTCTTCGAGCCATGCC
 ACTGGCCTGGCTTGTGGGGCCCTTTGCGCCATCTTGGTGGAGCGGTGAGAGCCCTGATCAACCTGGCC
 ACCTGTGTGGATGAGGTGGTGGGTGACCCTGACCCCGCTGGGCACACATGGACTGGCCAGCCAGCAGA
 GGGCCTGGGAGGCTGAGCCTGCAGACCCTGGGGACAAGAGGCTGAGCCCCACTGGGCCAGGTCAAGCA
 CACAATGATGCCAGAGCTAGACTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001134637
- Insert Size:** 1428 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_001134637.1](#), [NP_001128109.1](#)

RefSeq Size: 1937 bp

RefSeq ORF: 1428 bp

Locus ID: 501283

UniProt ID: [M0R7Z9](#)

Cytogenetics: 9q12

Gene Summary: Lipid droplet-associated protein that maintains the balance between lipogenesis and lipolysis and also regulates fatty acid oxidation in oxidative tissues. Recruits mitochondria to the surface of lipid droplets and is involved in lipid droplet homeostasis by regulating both the storage of fatty acids in the form of triglycerides and the release of fatty acids for mitochondrial fatty acid oxidation. In lipid droplet triacylglycerol hydrolysis, plays a role as a scaffolding protein for three major key lipolytic players: ABHD5, PNPLA2 and LIPE. Reduces the triacylglycerol hydrolase activity of PNPLA2 by recruiting and sequestering PNPLA2 to lipid droplets. Phosphorylation by PKA enables lipolysis probably by promoting release of ABHD5 from the perilipin scaffold and by facilitating interaction of ABHD5 with PNPLA2. Also increases lipolysis through interaction with LIPE and upon PKA-mediated phosphorylation of LIPE.[UniProtKB/Swiss-Prot Function]