

## Product datasheet for **RG224783**

### **LSDP5 (PLIN5) (NM\_001013706) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                                     |
|---------------------------|-----------------------------------------------------|
| Product Type:             | Expression Plasmids                                 |
| Product Name:             | LSDP5 (PLIN5) (NM_001013706) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                            |
| Symbol:                   | LSDP5                                               |
| Synonyms:                 | LSDA5; LSDP5; MLDP; OXPAT                           |
| Mammalian Cell Selection: | Neomycin                                            |
| Vector:                   | pCMV6-AC-GFP (PS100010)                             |
| E. coli Selection:        | Ampicillin (100 ug/mL)                              |



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**ORF Nucleotide Sequence:**

>RG224783 representing NM\_001013706  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTGAAGAAGAGGCGGCTCAGATCCCCAGATCCAGTGTGTGGGAGCAGGACCAGCAGAACGTGGTG  
 AGCGTGTGGTGGCTCTGCCCCCTGGTCAGGGCCAGGTGCACCGCGTCTGCGATGTTTACAGTGCAGCCAA  
 GGACAGGCACCCGCTGCTGGGCTCCGCCTGCGCCTGGCTGAGAACTGCGTGTGCGGCTGACCAACCGT  
 GCCCTGGACCACGCCAGCCGCTGCTCGAGCACCTGCAGCCCCAGCTGGCACTATGAACAGCCTCGCT  
 GCAGGGGCTGGACAAGCTGGAAGAGAAGCTTCCCTTTCTCCAGCAACCTTCGAGACGGTGGTACCTC  
 AGCCAAGACGTGGTGGCCAGCAGTGTACGGGTGTGGTGGACCTGGCCCGAGGGGCGGCGCTGGAGC  
 GTGGAGCTGAAGCGCTCCGTGAGCCATGCTGTGGATGTTGTACTGAAAAATCAGAGGAGCTGGTGGATC  
 ACTTCTGCCATGACGGAGGAAGAGCTCGCGGCACTGGCGGCTGAGGCTGAAGGCCCTGAAGTGGGTTT  
 GGTGGAGATCAGAGGAGACAGCAGGGCTACTTTGTGCGCTCGCTCCCTGTCAGCACGGATCCGCCAC  
 CTGGCCTACGAGCACTCTGTGGGAAACTGAGGCAGAGCAACACCGTGCCAGGACACCTGGCCAGC  
 TGCAGGAGACGCTGGAGCTGATAGACCACATGCACTGTGGGTGACCCCCACCGCCCGGCCCTGG  
 GAAGGTGCACGAGCTGTGGGGGAATGGGGCCAGCGCCCTCCGGAGAGCCGCGCCGGAGCCAGGCAGAG  
 CTGGAGACGCTGGTGTGTCCCCGAGCTGACCCAGGAGCTGCAGGGCACGGTAGAGGCTCTGGAGTCCA  
 GCGTGCGGGGCTGCCGCCGCGGCCAGGAGAAGGTGGTGGTGGCGCAGTGTGGATGCCCTGCA  
 GACCGCTTCGCTGATGCCCGCTGCTTCAGGGACGTGCCAGCGCCGCGCTGGCCGAGGGCCGGGTCGC  
 GTGGCCACGCGCACGCTGCGTGGACGAGCTGCTGGAGCTGGTGGTGCAGGCCGTGCCGCTGCCCTGGC  
 TGGTGGGACCTTCGCGCCATCCTTGTGGAGCGACCCGAGCCCTGCCGACCTGGCGGACCTGGTGA  
 CGAGGTACGCGGGGCCCTGACCCCGCTGGGCGCACTGGACTGGCCGCGCCAGCAGAGAGCCTGGGAG  
 GCAGAGCACAGGACGGGAGTGGGAATGGGGATGGGGACAGGATGGGTGTTGCCGGGACATCTGCGAGC  
 AGGAACCCGAGACCCCGCTGCCCCGTCAAGCACACCCTGATGCCCGAGCTGGACTTCTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

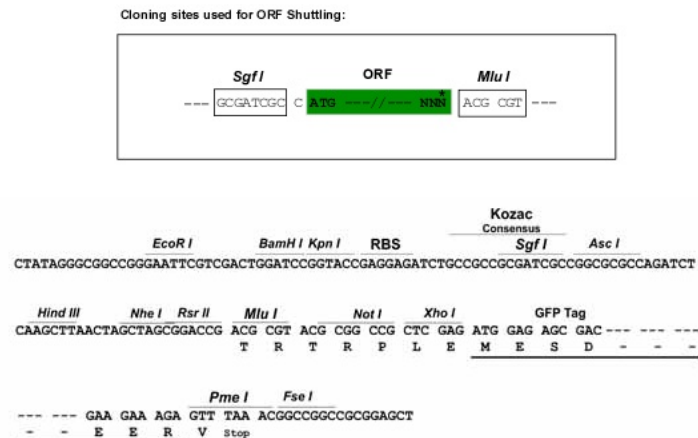
>RG224783 representing NM\_001013706  
 Red=Cloning site Green=Tags(s)

MSEEEAAQIPRSSVWEQDQNVVQRVVALPLVRATCTAVCDVYSAAKDRHPLLGSACRLAENCVCGLTTR  
 ALDHAQPLLEHLQPLATMNSLACRGLDKLEELPFLQQPSETVVTSAKDVVASSVTGVVDLARRGRRWS  
 VELKRSVSHAVDVVLEKSEELVDHFLPMTEELAAALAEAGPEVGSVEDQRRQQGYFVRLGSLSARIRH  
 LAYEHSVGLRQSKHRAQDTLAQLQETLELIDHMQCGVTPTAPARPGKVHELWGEWGQRPPESSRRRSQAE  
 LETLVLSRSLTQELQGTVEALESSVRGLPAGAQEKVAEVRSSVDALQTAFADARCFRDVPAALAEGRGR  
 VAHAHACVDELLELVVQAVPLPWLVGPFAPILVERPEPLDLADLVDEVI GGPDPRAWHLDPAAQQRWE  
 AEHRDGSNGDGRMGVAGDICEQEPETPSCPVKHTLMPELDF

**TR**TRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001013706

**ORF Size:** 1391 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).

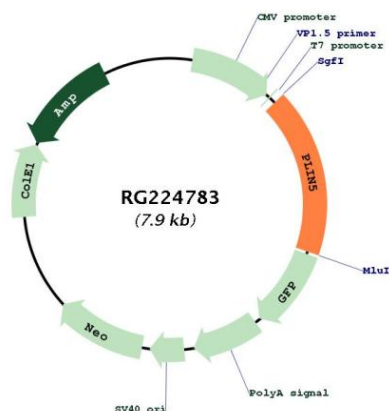
**Reconstitution Method:**

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\\_001013706.2](#), [NP\\_001013728.2](#)

|               |                                                                                                                                                                                                           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RefSeq Size:  | 2445 bp                                                                                                                                                                                                   |
| RefSeq ORF:   | 1392 bp                                                                                                                                                                                                   |
| Locus ID:     | 440503                                                                                                                                                                                                    |
| UniProt ID:   | <a href="#">Q00G26</a>                                                                                                                                                                                    |
| Cytogenetics: | 19p13.3                                                                                                                                                                                                   |
| Gene Summary: | Members of the perilipin family, such as PLIN5, coat intracellular lipid storage droplets and protect them from lipolytic degradation (Dalen et al., 2007 [PubMed 17234449]).[supplied by OMIM, Feb 2010] |

## Product images:



Circular map for RG224783