

Product datasheet for **SC337500**

LONP2 (NM_001300948) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LONP2 (NM_001300948) Human Untagged Clone
Tag:	Tag Free
Symbol:	LONP2
Synonyms:	LONP; LONPL; PLON; PSLON
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001300948, the custom clone sequence may differ by one or more nucleotides

```

ATGTCATCAGTGAGCCCCATCCAGATCCCCAGTCGCCTCCCGCTGCTGCTCACCCACGAGGGCGTCTCTGC
TGCCCCGGCTCCACCATGCGCACCAGCGTGGACTCGGCCCGCAACCTGCAGCTGGTGGGAGCCGCTTCT
GAAGGGCAGTCGCTGCAAAGCACCATCCTGGCGTCATCCCCAACACGCTGACCCGCCAGCGACGCG
CAGGACCTGCCGCGCTGCACAGGATTGGCACAGCTGCACTGGCCGTTTCAGGTTGTGGGCAGTAAC TGCC
CCAAGCCCCACTACACTCTGTTGATTACAGGCCTATGCCGTTTCCAGATTGTACAGGTCTTAAAAGAGAA
GCCATATCCCATTGCTGAAGTGGAGCAGTTGGACCGACTTGAGGAGTTTCCCAACACCTGTAAAATGAGG
GAGGAGCTAGGAGAACTATCAGAGCAGTTTTACAATAATGCAGTACAAAATTTAGATGCTGTGAGCCTAG
AGGAGCGGTTCAAGATGACTATACCACTGCTTGTGACACAAAATGAAGGCCTGAAATTGCTTCAAAAAAC
CAGAAAACCAAGCAAGATGATGATAAGAGGGTTATAGCAATACGCCCTATTAGGAGAATTACACATATC
TCAGGTACTTTAGAAGATGAAGATGAAGATGAAGATAATGATGACATTGTCATGCTAGAGAAAAAATAC
GAACATCTAGTATGCCAGAGCAGGCCATAAAGTCTGTGTCAAAAGAGATAAAGAGACTCAAAAAATGCC
TCAGTCAATGCCAGAATATGCTCTGACTAGAAATTTATTGGAACCTTATGGTAGAACTTCCTTGGAAACAA
AGTACAAC TGACCGCTGGACATTAGGGCAGCCCGGATTCTTCTGGATAATGACCATTACGCCATGGAAA
AATTGAAGAAAAGAGTACTGGAATACTTGGCTGTGACAGAGCTCAAAAAAACCTGAAGGGCCCAATCCT
ATGCTTTGTTGGCCCTCCTGGAGTTGGTAAAACAAGTGTGGGAAGATCAGTGGCCAAGACTCTAGGTCGA
GAGTTCACAGGATTGCACTTGGAGGATATGTGATCAGTCTGACATTGAGGACACAGGCGCACCTATG
TTGGCAGCATGCCTGGTCGCATCATCAACGGCTTGAAGACTGTGGGAGTGAACAACCCAGTGTTCCTATT
AGATGAGGTTGACAACTGGGAAAAAGTCTACAGGGTGATCCAGCAGCAGCTCTGCTTGAAGTGTGGAT
CCTGAACAAAACATAAATTACAGATCATTATCTAAATGTGGCCTTTGACCTTTCTCAAGTTCTTTTTTA
TAGCTACTGCCAACCACTGCTACCATTCCAGCTGCCTTGTGGACAGAATGGAGATCATTGAGGTTCC
AGGTTATACACAGGAGGAGAAGATAGAGATTGCCCATAGGCATTGATCCCCAAGCAGCTGGAACAACAT
GGGCTGACTCCACAGCAGATTAGATACCCAGGTCACCACTCTTGACATCATCACCAGGTATACCAGAG
AGGCAGGGGTTCTTCTGATAGAAAATTTGGGGCCATTTGCCGAGCTGTGGCCGTGAAGGTGGCAGA
AGGACAGCATAAGGAAGCCAAGTTGGACCGTCTGATGTGACTGAGAGAGAAGGTTGCAGAGAACACATC
TTAGAAGATGAAAAACCTGAATCTATCAGTGACACTACTGACTTGGCTCTACCACCTGAAATGCCGATTT
TGATTGATTTCCATGCTCTGAAAGACATCCTTGGGCCCGATGTATGAAATGGAGGTATCTCAGCGTTT
GAGTCAGCCAGGAGTAGCAATAGGTTTGGCTTGGACTCCCTTAGGTGGAGAAATCATGTTCTGGAGGGC
AGTCGAATGGATGGCAGGGCCAGTAACTCTGACCGGCCAGCTCGGGGACGTGATGAAGGAGTCCGCC
ACCTCGCTATCAGCTGGCTCCGAGCAACGCAAAGAGTACCAGCTGACCAATGCTTTTGGAAAGTTTGA
TCTTTTGACAACACAGACATCCATCTGCACTTCCCAGCTGGAGCTGTCACAAAAGATGGACCATCTGCT
GGAGTTACCATAGTAACCTGTCTCGCCTCACTTTTATGTTGGCGGCTGGTACGTTTCAGATGTAGCCATGA
CTGGAGAAATTACACTGAGAGGTTCTTCTTCCAGTGGGTGGAATTAAGACAAAAGTGTGGCGGCACA
CAGAGCGGGACTGAAGCAAGTATTCTCCTCGGAGAAATGAAAAAGACCTTGAAGGAATCCCAGGCAAC
GTACGACAGGATTAAGTTTTGTACAGCAAGCTGCCTGGATGAGGTTCTTAATGCAGCTTTTGTGGTG
GCTTTACTGTCAAGACCAGACCTGGTCTGTTAAATAGCAAACCTGTAG
    
```

Restriction Sites: SgfI-MluI

ACCN: NM_001300948

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:	<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:	<u>NM_001300948.1</u> , <u>NP_001287877.1</u>
RefSeq Size:	4826 bp
RefSeq ORF:	2427 bp
Locus ID:	83752
UniProt ID:	<u>Q86WA8</u>
Cytogenetics:	16q12.1
Protein Families:	Druggable Genome, Protease
Gene Summary:	<p>In human, peroxisomes function primarily to catalyze fatty acid beta-oxidation and, as a by-product, produce hydrogen peroxide and superoxide. The protein encoded by this gene is an ATP-dependent protease that likely plays a role in maintaining overall peroxisome homeostasis as well as proteolytically degrading peroxisomal proteins damaged by oxidation. The protein has an N-terminal Lon N substrate recognition domain, an ATPase domain, a proteolytic domain, and, in some isoforms, a C-terminal peroxisome targeting sequence. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jan 2017]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region compared to variant 1. It encodes isoform 2 which is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>