

Product datasheet for **SC333258**

LONP1 (NM_001276480) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LONP1 (NM_001276480) Human Untagged Clone
Tag:	Tag Free
Symbol:	LONP1
Synonyms:	CODASS; hLON; LON; LonHS; LONP; PIM1; PRSS15
Vector:	pCMV6-Entry (PS100001)



[View online »](#)

Fully Sequenced ORF: >SC333258 representing NM_001276480.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGCAGGACCTTGGGGACAAGCTGCGCATGATCGTCATGGGACACAGAAGAGTCCATATCAGCAGACAG
CTGGAGGTGGAGCCCAGGAGCCGGAGGCGGAGAACAAGCACAAGCCCCGAGGAAGTCAAAGCGGGGC
AAGAAGGAGGCGGAGGACGAGCTGAGCGCCAGGCACCCGGCGGAGCTGGCGATGGAGCCCACCCCTGAG
CTCCCGGCTGAGGTGCTCATGGTGGAGGTAGAGAACGTTGTCCAGGAGGACTCCAGGTCACGGAGGAG
GTGAAAGCCCTGACTGCAGAGATCGTGAAGACCATCCGGGACATCATTGCCTTGAACCCTCTACAGG
GAGTCAGTGCTGCAGATGATGCAGGCTGGCCAGCGGGTGGTGGACAACCCCATCTACCTGAGCGACATG
GGCGCCGCGCTCACCGGGGCCGAGTCCCATGAGCTGCAGGACGTCTGGAAGAGACCAATATTCTAAG
CGGCTGTACAAGGCCCTCTCCCTGCTGAAGAAGGAATTTGAACTGAGCAAGCTGCAGCAGCGCCTGGGG
CGGGAGGTGGAGGAGAAGATCAAGCAGACCCACCGTAAGTACCTGCTGCAGGAGCAGCTAAAGATCATC
AAGAAGGAGCTGGGCCTGGAGAAGGACGACAAGGATGCCATCGAGGAGAAGTCCGGGAGCGCCTGAAG
GAGCTCGTGGTCCCAAGCACGTCATGGATGTTGTGGACGAGGAGCTGAGCAAGCTGGGCCTGCTGGAC
AACCACTCCTCGAGTTCATGTCAACCCGCAACTACCTAGACTGGCTCACGTCCATCCCTTGGGGCAAG
TACAGCAACGAGAACCTGGACCTGGCGCGGGCACAGGCAGTGCTGGAGGAAGACCACTACGGCATGGAG
GACGTC AAGAAACGCATCCTGGAGTTCATTGCCGTTAGCCAGCTCCGCGGCTCCACCCAGGGCAAGATC
CTCTGTTCTATGGCCCCCTGGCGTGGGTAAGACCAGCATTGCTCGCTCCATCGCCGCGCCCTGAAC
CGAGAGTACTTCCGCTTACGCGTCGGGGCATGACTGACGTGGCTGAGATCAAGGGCCACAGGCGGACC
TACGTGGGCGCCATGCCCGGAAGATCATCCAGTGTGTTGAAGAAGACCAAGACGGAGAACCCCTGATC
CTCATCGACGAGGTGGACAAGATCGGCCGAGGCTACCAGGGGGACCCGTCGTGGCACTGCTGGAGCTG
CTGGACCCAGAGCAGAATGCCAACTTCTGGACCACTACCTGGACGTGCCGTGGACTTGTCCAAGGTG
CTGTTTCATCTGCACGGCCAACGTCACGGACACCATCCCCGAGCCGCTGCGAGACCGTATGGAGATGATC
AACGTGTGGGGCTACGTGGCCCCAGGAGAAGCTGGCCATTGCGGAGCGCTACCTGGTGGCCAGGCTCGC
GCCCTGTGTGGCTTGGATGAGAGCAAGGCCAAGCTGTCATCGGACGTGCTGACGCTGCTCATCAAGCAG
TACTGCCGCGAGAGCGGTGTCCGCAACCTGCAGAAGCAAGTGGAGAAGGTGTACGGAAATCGGCCTAC
AAGATTGTGACGCGGAGGCCGAGTCCGTGGAGGTGACGCCCCGAGAACCTGCAGGACTTCGTGGGGAG
CCCGTGTTCACCGTGGAGCGCATGTATGACGTGACACCGCCCGGCGTGGTATGGGGCTGGCCTGGACC
GCAATGGGAGGCTCCACGCTGTTTGTGGAGACATCCCTGAGACGGCCACAGGACAAGGATGCCAAGGGT
GACAAGGATGGCAGCCTGGAGGTGACAGGCCAGCTGGGGGAGGTGATGAAGGAGAGCGCCCGCATAGCC
TACACCTTCGCCAGAGCCTTCTCATGCAGCACGCCCCGCCAATGACTACCTGGTGACCTCACACATC
CACCTGCATGTGCCCAGGGCGCCACCCCAAGGACGGCCCAAGCGCAGGCTGCACCATCGTCACGGCC
CTGCTGTCCCTGGCCATGGGCAGGCCTGTCCGGCAGAATCTGGCCATGACTGGCGAAGTCTCCCTCACG
GGCAAGATCCTGCCTGTTGGTGGCATCAAGGAGAAGACCATTGCGGCCAAGCGCGCAGGGGTGACGTGC
ATCGTCTGCCAGCCGAGAACAAGAAGGACTTCTACGACCTGGCAGCCTTCATACCCGAGGGCCTGGAG
GTGCACTTCGTGGAACACTACCGGGAGATCTTCGACATCGCCTTCCCGGACGAGCAGGCAGAGGGCGTG
GCCGTGGAACGGTGA
  
```

Restriction Sites: SgfI-MluI

ACCN: NM_001276480

Insert Size: 2292 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_001276480.1](#)

RefSeq Size: 2900 bp

RefSeq ORF: 2292 bp

Locus ID: 9361

UniProt ID: [P36776](#)

Cytogenetics: 19p13.3

Protein Families: Druggable Genome, Protease

MW: 85.6 kDa

Gene Summary: This gene encodes a mitochondrial matrix protein that belongs to the Lon family of ATP-dependent proteases. This protein mediates the selective degradation of misfolded, unassembled or oxidatively damaged polypeptides in the mitochondrial matrix. It may also have a chaperone function in the assembly of inner membrane protein complexes, and participate in the regulation of mitochondrial gene expression and maintenance of the integrity of the mitochondrial genome. Decreased expression of this gene has been noted in a patient with hereditary spastic paraplegia (PMID:18378094). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Feb 2013]
Transcript Variant: This variant (3) contains an alternate 5' terminal exon and uses an in-frame downstream start codon compared to variant 1. The encoded isoform (3) has a shorter N-terminus compared to isoform 1.