

## Product datasheet for **SC216048**

### **LONP2 (NM\_031490) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	LONP2 (NM_031490) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	LONP2
Synonyms:	LONP; LONPL; PLON; PSLON
ACCN:	NM_031490
Insert Size:	2000 bp



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**Insert Sequence:** >SC216048 3'UTR clone of NM\_031490  
 The sequence shown below is from the reference sequence of NM\_031490. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
AGACCTGGTCTGTAAATAGCAAAGTGTAGGTCCAAATCTCAATTTTTAGAAATTTAAGTTATGAAGT
GCTCAAAGGTAAGTACACAGTTGATTTTATTACACCATTAGGGGTATGCAAGATGTCCTGTTTTATA
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TTAGTAAACTGATAAAAAATCGAATTCCTGTCTTTTGTAGTGGGATCCTTACTGTCCCTGGAAAGATATAG
CATAGTGGTTCTCAGCACAGTCTCCAGAACAGAAGCATCTGTAGTACCTGGTAACCTGTTAGAAATGTA
CATTCTCAGGCTCCACAGCAGGCCGCTGAATCAAATCCTGGGAGGTGGGACAGAAATCTGTGTTTTA
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CGAAACTCTGTCTCTACAAAAATATACAGGCGTGTAGCATGTGCCTGTAATCCAGCTTCTTGGGAA
GCTGAGGCACAAGAAATTCCTGAACCCAGGAGGTGGAGGTTGCAGTGAGCTGGGATCGCGCCATTGCAC
TCCAGCCTGGCTGACAGAGCGAGACTGTCTCTAAAAAAGACTCAAGTGGACCCTACAATGAAGCC
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CGTCTCCTATTTCTTGGCTTGGCTACGCCAGTCCCAAATCTGGTAGATGTCCATGCCCATGTGCTCCT
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TCTTTTATTACACAATATAAGAATATGTATGTAAGACATTTTGGAAATTCCTGGATGAGAAGGAAGTC
TGGGCTGGGCATGGTGGCTCACGCCTGTAACCCTAGCACTTTAGGAAATCGAGGCGAGTGGATCACTTA
AGCTCAGGAGTTCAAGGCCAGCCTGGGCAACATGGCAAAACCCATTTCTACAAAAATACAAAAATTA
GCTGGGATGGTGGCACCAGCCTGTAGTCCAGCTACTTGGAGTGTAGATGGGAGGATGAGGGAGGTCGG
GGCTGCAGTGTAGCAAGATCACGCCACTGCACTCCAGCACCTGGGCGACAGAGTGTAGACCTGTCTCA
AAAAAAAAAAAAAAAAAAGATTGGGCCAAAATACTGTGATAAAATAGCAGGCCTGCTGATAAAAGTT
TATCTGAATGCATTGAGAGGAAAAGTCCAGACCTAGGACTAGTTATGGCAGTTGGAGAGAAAAGAACATC
GGGATGTTTAAAAATATGCCATTGACTATCTTAACTACTGTAATTTTATCATTTCACACGTCATCTAAC
TGGGGACTAGAACAACTGTGAATTCACCTTTCAGCAACCAGAGGGCGCTAATCCACACCCACATCGCT
ACGCGT AAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCACCGCCGCCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_031490.5](#)

**Summary:**

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]

**Locus ID:**

83752

**MW:**

74.7