

Product datasheet for **MC206132**

Lonp2 (BC049090) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lonp2 (BC049090) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lonp2
Synonyms:	1300002A08Rik; AU015403; Lonp
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC049090
 GGTGCGTTCGGCGAAGGAAGTGTAGAGTTCGACTTGGGAGTCCCTGACACCTCTGGTGTGACGACC
 GTGGCCATGTCCTCCGTGAGCCCATCCAGATCCCCAGCCGCCTTCCGCTGCTGTTGACCCACGAGAGTG
 TGTGCTGCCTGGCTCCACTATGCGCACAAGTGTGGACACGGCCCGCAACTTGCAGCTGGTGGGAGCCG
 CTTGCTCAAGGGCAGCTCGTTGCAGAGCACCATTCTAGGAGTCATCCCCAACACACCCGACCCGGCCAGC
 GACACGCAGGACCTGCCACCATTGCACAGAATTGGAACGGCTGCCCTGGCAGTTCAGGTTGTGGGAGTA
 ATTGGCCCAAACCACACTACACTTTACTGATCACAGGCCTGTGCCGTTCCAGATTGTGCAGGCTTAAA
 AGAGAAGCCATATCCCGTGGCTGAAGTGGAGCAGCTGGACCGACTTGAGGAATTTCCAATATCTGCAAA
 AGCAGGGAGGAGCTGGGAGAGCTGTGAGAGCAATTCTACAGATACGCAGTGCAGTTGGTTGAAATGTTGG
 ATATGTCCGTCCCTGCAGTTGCTAAATTGAGACGCTTTTTAGATAATCTTCCAAGGGAAGCTCTACCAGA
 CATTCTAACTTCAATTATTGCAACAAGCAACAAGAGAAGCTCCAGATCTTAGATGCCGTGAGCCTGGAG
 GATCGTTCAAGATGACCATACCTCTGCTTGTAGACAGATTGAAGGTCTGAAATTACTTCAGAAGACTC
 GCAAACCTAAACAAGATGACGACAAGAGGGTTATAGCAATACGCCCATCAGGAGGATCCACACATCCC
 AGGAACCTTAGAAGATGAGGAGGAGGAAGAAGATAATGATGACATTGTCATGCTGGAGAAAAAATAAGA
 ACATCTAGTATGCCAGAACAGGCTCATAAAGTCTGTGTCAGGAGATAAAAAGACTCAAAAAAATGCCTC
 AGTCAATGCCTGAATATGCTCTGACTAGAAATTTTGGAACTTATGGTGGAGCTTCCTTGAACAAAAAG
 TACAACCTGATCGCTGGACATTCGGGCAGCCCGGATTCTTCTGGACAATGACCATTATGCCATGGAAAA
 CTGAAGAGGAGGGTTTTGGAATACTTGGCTGTGAGACAATGAAAAATAACTTGAAGGGCCCAATCCTCT
 GTTTTTGTTGGCCCGCCTGGAGTAGGCAAAAAGTGTGGGGAGATCCGTGGCCAAGACTCTGGGTGGGA
 GTTCCACAGGATTGCACTTGGGGTGTGTGACCAGTCTGACATTCGAGGGCACAGGGGACCTATGTG
 GGCAGTATGCCTGGTCGATCATCAATGGCTTGAAGACCGTTGGGGTTACAATCCAGTGTTCCTATTGG
 ATGAGGTTGACAAGCTGGGAAAAGCCTGCAGGGGATCCTGCAGCTGCGCTGCTTGAGGTTGGATCC
 TGAACAAAACCTAACTTCACAGATCACTAATAATGTGGCTTTGACCTTTCCAAGTCTTTTCATA
 GCAACTGCCAACACCACTGCTACTATTCCACCTGCTTTGCTGGACAGGATGGAGATCATTAGGTTCCAG
 GGTACACACAGGAGGAGAAGATAGAGATTGCCACAGGCACCTGATCCCTAAGCAGCTGGAGCAGCACGG
 TCTGACTCCTCAGCAGATTGAGATCCCCAGCACACCACTCTGGCCATCATTACCAGATACACCAGAGAA
 GCAGGAGTCCGTCTCTGGACAGAAAGTTGGGGCTATTTGCCGTGCTGTGGCAGTGAAAGTTGCAGAA
 GCCAGCATAAGGAAGCCAAGCTGGACCGTTCGGATGTGGCTGATGGAGAAGGTTGCAAAGAACATGTGCT
 GGAAGATGCAAAACCTGAATCCATCAGTGACACTGCAGACTTGGCCCTGCCACCTGAAATGCCAATTCTG
 ATCGACTCCCATGCCCTGAAAGACATCCTGGGGCCACCACTGTATGAGCTGGAGGTATCTGAGCGTTTGA
 GTCACCTGGAGTGGCAATAGGGTTAGCATGGACTCCCTTGGGTGGCAAAATCATGTTTGTGGAAGCAAG
 TAGAATGGACGGTGAAGGCCAACTAACACTGACCGGCCAGCTTGGGGACGTCATGAAGGAGTCTGCCAT
 CTCGCCATTAGCTGGCTTGAAGCAATGCAAGAAATACCACTGACTAATGCTTTTGAAGTTTTGATC
 TTCTTGACAACACAGACATCCATCTGCACTTCCCAGCTGGAGCTGTACAAAAAGATGGACCATCTGCTGG
 TGTTACCATAGTAACCTGTCTCGCCTCACTTTTTCAGTGGGCGGCTTGTGCGCTCAGATGTAGCCATGACT
 GGGGAAATTACGCTGAGAGGGCTTGTCTTCCAGTGGGTGGAATTAAGACAAAGTCTAGCAGCACACC
 GAGCAGGACTGAAGCAGATCATAATCCGAGAGGAACGAAAAGGACCTTGAAGAGATCCCAAGCAACGT
 CAGACAGGATCTAAGTTTTGTTACAGCAAGCTGCCTGGATGAAGTTCTAAATGCAGCTTTTGTGGTGGC
 TTTCTGTCAAGACCAGACCTGGTCTCATTGACAGCAAACCTATAGGCCCGAACATAAGCTGAATTTAATT
 ATGAGGCAAGCTTGTGTTGAGGCACCAATGATCAAGCAAAATATCCCTAATCTGTGGATAAATCAAGA
 TAGCAATGAGTCTGTTTAAAGTAGTTGTTTATTACAGAAATGTTGGCTTAATAAAGTCATTAACCTAGAA
 AA AA

Restriction Sites: Ascl-NotI
ACCN: BC049090
Insert Size: 2559 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:	<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:	BC049090 , AAH49090
RefSeq Size:	2872 bp
RefSeq ORF:	2559 bp
Locus ID:	66887
Cytogenetics:	8 C3
Gene Summary:	ATP-dependent serine protease that mediates the selective degradation of misfolded and unassembled polypeptides in the peroxisomal matrix. Necessary for type 2 peroxisome targeting signal (PTS2)-containing protein processing and facilitates peroxisome matrix protein import. May indirectly regulate peroxisomal fatty acid beta-oxidation through degradation of the self-processed forms of TYSND1.[UniProtKB/Swiss-Prot Function]