

Product datasheet for **RN215432**

Lonp2 (NM_001033689) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lonp2 (NM_001033689) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Lonp2
Synonyms:	LRRGT00016; RGD1305466
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN215432 representing NM_001033689
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCTCCGTGAACCCCATCCAGATCCCAGCCGCCTTCGCTGCTGTTGACCCATGAGAGTGTGTTC
 TGCTGGCTCCACTATGCGCACAAAGTGTGGACACGGCCGTAACCTGCAGCTGGTGCGGAGCCGTTTGCT
 CAAGGGCACGTCGTTGCAGAGCACCATCCTAGGAGTCATCCCAACACACCCGATCCGGCCAGCGACTCT
 CAGGACCTGCCACCCTGCACAGGCCATCTGTGTAGACTGCTTTGCACCATGCTCTTTGGGTAGCCGTG
 CTTCTTGGATTGCACAGTACTGTGGATATAGAGCACTTGAAGTGTGTCTGCTAATACGAGCTTTAA
 CACTGGAATGCATGACTGTTGAGAGCTGTGCAGATGATGGAGGCCTGGCTTATGGAAATTCAGAGGAGA
 GCAAAGACTCAACTGGCCCTTCCGTGTAGAGTCTGGCATCTGGTCAGCTGGAAACGAAGAATTGGCTG
 CAACTAACAGAGAACAGAACCCTAAGGTTAAAACCTTTGCTTTGCTGGGACAATGGATCTGGTAGCG
 TGCTGGAGAGTCAGCTGTGATTAAGAACAACCCAGCATCATTAGAATTGGAACGGCTGCCCTGGCAGTT
 CAGGTCGTGGGCAGTAATTGGCCCAAGCCACACTACACTTTACTGATCACGGGCCTGTGCCGGTTCCAGA
 TTGTGCAGGTCTTAAAAGAGAAGCCATACCCCGTGGCTGAAGTGGAGCAGCTGGACCGACTTGAGGAATT
 TCCCAATACCTGCAAAACAGGGAGGAGCTGGGAGAGCTGTCGGAGCAATTCTACAGATACTCAGTACAA
 TTGGTTGAAATGTTGGATATGTCCTGCCCTGCAGTTGCTAAGTTGAGACGCCCTCTTAGATAGTCTGCCAA
 GGGAGCCCTGCCGACATTCTCACTCCATTATTCGAACAAGCAACAAGAGAAGCTCCAGATCTTAGA
 TGCTGTGAGCCTGGAGGATCGGTTCAAGATGACCATACCTCTGCTGTGACAGAGATTGAAGGTCTGAAA
 TTACTTCAGAAGACTCGAAAACCTAAACAAGATGATGACAAAAGGTTATAGCAATACGCCCCATCAGGA
 GGATTACACACATCCCAGGAGCTTTAGAAGATGAAGAGGAAGGAAGATAATGATGACATTGTCATGCT
 GGAGAAAAAATAAGAACATCTAGTATGCCAGAACAGGCTCATAAAGTCTGTGTCAAGGAGATAAAAAGA
 CTCAAAAAATGCCTCAGTCAATGCCTGAATATGCTCTGACTAGAAATTTTGGAACTTATGGTGGAGC
 TTCCTTGGAAACAAAAGTACAACCTGACCGCCTGGACATCCGGGCAGCCGCATCCTTCTGGACAATGACCA
 CTATGCCATGGAAAAGCTGAAGAGGAGGTTTTGGAGTACTTGGCTGTGAGACAGTTGAAAAATAACCTG
 AAGGGCCCAATCCTCTGCTTCGTTGGCCCTCCTGGAGTAGGCAAAAACAAGTGTGGGGCGGTGAGTGCCA
 AGACTCTGGCCGAGAGTCCACAGGATGCGCTTGGGGCGTGTGTACCAGTCTGACATTCGAGGGCA
 CAGGCGCACCTATGTGGCAGCATGCCCGCCGCATCATCAATGGCTTGAAGACTGTGGGGTTAACAA
 CCAGTGTTCCTTTGGATGAGGTTGACAAGCTAGGGAAGAGCCTGCAGGGGGATCTGCAGCCGACTGC
 TCGAGGTGTTGGATCCTGAACAAAACATAAATTCACAGATCACTATCTAAATGTGGCCTTTGACCTTTC
 CCAAGTCTTTTCATAGCGACTGCCAACACCCTGCCACTATCCCACCTGCTTTGCTGGACAGGATGGAG
 ATCATTAGGTTCCAGGGTACACACAGGAGGAGAAGATAGAGATTGCCACAGGCACCTGATTCCTAAGC
 AGCTGGAGCAACACGGGCTGACTCCTCAGCAGATCCAGATCCCCAGCTCACCACGCTGGCCATCATCAC
 CAGATACACCAGAGAAGCGGGAGTCCGTTCTCTGGACAGAAAGTTTGGGGCTATTTGCGGGCCGTTGCA
 GTGAAAGTTGCAGAAGGCCAGCATAAGGAAGCCAAGCTGGACCGTTCCGATGTGGCTGACGGAGAAGA
 CCGCTGCCTCCATCTTAGGCTTAAAGCCGCCTTAGAGTCAAGACAAAACCAGCTCATTCTGTTTATGA
 GGAAGCCTCTGACTCTCGAGGATCGGGCTGTGCCCACTTGTAACTTAACTACAATGGTTCTGTACTG
 GCTGTCCCAGAAATGACAATCATGTCTTTGTTTTCAGAAGGTTCTTAGGACTAACTGTTATGTTCTGCTC
 CTTTAAACCCTGCCTATCTTCTGACAAGTCTCCATT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001033689
Insert Size: 2421 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:	<u>NM_001033689.1</u> , <u>NP_001028861.1</u>
RefSeq Size:	2421 bp
RefSeq ORF:	2421 bp
Locus ID:	291922
Cytogenetics:	19p11
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]