

Product datasheet for **RN204779**

Lonp1 (NM_133404) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lonp1 (NM_133404) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Lonp1
Synonyms:	Lon; Prss15
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN204779 representing NM_133404
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCAAGCACAGGTTACGTGCGGCTGTGGGCTGCTGCGCGTGCTGGGTTCTGCGCGTCCGCTCT
 TGGCTGTACCGGAGGCCGAGTCCCGAGTGCCTCCGGTCTGGCTGCGCGAGGATGTCGGGTCTGCGA
 CACGTCAACTCCCTGGGCGGCCGCTTCTATGGGCGGGGCCAGTGGCGGGGCTGTGGGACGCGGGG
 AGCCGCGGTGGCAGCGACGAGACCTCCGAGGGCGGCTGGAGGACGGGGCCACGGCGAGCAGCGGGGAAG
 GCCCGGTGTCACGGCCCTCGCGCTATGACCGTCCCGGATGTGTTTCTCACCTGCCGCTCATCGCCAT
 CTCCCGCAACCCGGTGTCCCGCTTTATCAAGATCGTGGAGGTTAAAAATAAGAAGTTGGTTGAGCTG
 CTGAGAAGGAAAGTCCGCTGGCACAGCCGTATGTTGGCTCTTCTTAAGAGAGATGATAACAATGAGT
 CAGACGTGGTGGAGACCTGGATGAGATCTACCATACGGGAACGTTGCTCAGATTATGAGATGCAGGA
 CCTCGGAGACAAGTTGCGCATGATCGTTACAGGCCACAGAAGGATTCACATCAGCCGGCAGCTGGAGGTG
 GAACCAGAGGGGCTGGAGCCAGAGGCAGAGAACAACAAAAGTCCAGGAGGAAGCTGAAGCGAGGCAAGA
 AAGAGGTCGGGGATGAGCTGGGTGCCAAGCCCCAGCTGGAGATGGTACTGAGGCTACCAGTGACACATC
 CAAAGAGGTGCTCATGGTGGAGTTGAGAATGTAGCCCATGAAGACTTTCAGGTCACAGAGGAAGTGAAG
 GCCCTGACTGCAGAGATCGTGAAGACCATTCGGGATATCATCGCCCTGAACCCCTGTACAGAGAGTCCG
 TGCTGCAGATGATGCAGGCAGGCCAGCGTGTGGTGGACAACCCCATCTACTTGAGCGACATGGGTGCCGC
 ACTCACTGGGGCTGAGTCCCATGAGCTGCAAGATGTGCTGGAAGAAACAAACATCCTTAAGCGGCTCTAT
 AAGGCCCTGTCTTTTGAAGAAGGAGTTCGAGTTGAGCAAGCTTCAACAGCGCCTGGGGCGTGGAGTGG
 AGGAAAGATCAAGCAGACGCACAGGAAGTACCTGCTGCAGGAGCAGCTAAAGATCATCAAGAAAGAGTT
 GGGACTAGAGAAGGATGATAAAGATGCCATTGAGGAGAAGTTCCGGGAACGCTTAAAGGAGCTTGTGGTT
 CCCAAGCATGTGATGGACGTGGTATGAGGAGCTGAGCAAGCTGGCCCTACTGGACAACCACTCCTCTG
 AATTCAATGTCACTCGCAACTACCTGGACTGGCTGACGTCCATCCATGGGGCCGGCAGAGCGATGAGAA
 CTTAGACCTGGCTCGGGCCAGTCGGTGTGGAGGAGGACCACTATGGCATGGAGGATGTGAAGAAGCGA
 GTCTTGGAGTTCATTGCAGTCAGCCAGCTCCGAGGCTCCACACAGGGCAAGATCCTCTGCTTCCACGGCC
 CACCAGGTGTGGCAAGACCAGCATTGCACGCTCCATTGCCCGTGCCTTGGCCGTGAATACTTCCGCTT
 TAGTGTGGTGGCATGACAGATGTGGCAGAAATCAAGGGGCACAGGCGTACCTATGTGGGGCCATGCCT
 GGAAGATTATCCAGTGTCTGAAGAAAACCAAGACAGAGAACCCATTAGTGTGATTGATGAGGTGGATA
 AGATTGGCCGAGGCTACCAAGGGGACCCGTCATCAGCACTGTTGGAGTTGTTGGACCTGAGCAGAAATGC
 CAACTTCTGGACCACTACCTGGATGTGCCAGTGGACCTGTCAAAGGTGCTATTATCTGCACAGCCAAC
 GTCACTGACACTATACCGGAGCCACTAAGGGATCGCATGGAGATGATCAATGTGTGAGGCTATGTAGCAC
 AGGAGAAGCTGGCCATTGCAGAGCGGTACCTGGTGCACAGGCCCGCACCCCTGTGTGGCCTAGACGAGAG
 CAAGGCCCAACTGTGAGCGACAGTGTCACTCTACTCATCAAACAGTACTGCAGGGAAAGTGGTGTGCGC
 AACCTGCAGAAGCAGGTGGAGAAGGTGCTGCGCAAGGCTGCATACAAGATTGTAAGTGGAGAGGCCGAGA
 CAGTGCACGTGACACCTGAGAACCTGCAAGACTTTGTAGGGAAGCCAGTGTTCACAGTGGAGCGCATGTA
 TGATGTCACGCCCTCCTGGTGTGGTCAATGGGTTTGGCCTGGACTGCCATGGGAGGCTCCACATTGTTGCTG
 GAGACATCTTTAAGGAGGCCCGCCAGCCTAGTGGCAGCAAGGAGGACAAGGATGGCAGCCTAGAGGTGACAG
 GTCAGCTAGGAGATGTCATGAAAGAGAGTGCCCGCATAGCCTACACCTTTGCCCGTGCCTTCTGATGGA
 GCAGGACCCTGAAAATGACTTTCTGGTACATCCACATCCACCTGCATGTGCCTGAGGGCGCTACCCCC
 AAGGATGGCCCTAGTGCAGGTTGCACCATTTGCTACTGCATTGCTGTCCCTAGCTCTGGGGCAGCCAGTGT
 TGCAGAACCTGGCCATGACTGGGAAAGTCTCCCTCACTGGTAAAGTGTGCTGTGGGTGGCATCAAGGA
 GAAGACCATTGCGGCTAAGCGTGCAGGAGTGCCTGCATCATTTTGCCTGCTGAGAACAGGAAGGACTTC
 TCAGACTTGGCTCCCTTATCACAGAGGGCCTGGAGGTTCACTTCGTGGAACACTACCGCGACATCTTCC
 GAATTGCCTTCCCTTGCAGAGACCAGGAAGCACTGGCTGTGGAAGA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_133404
Insert Size:	2853 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:	NM_133404.1 , NP_596895.1
RefSeq Size:	2969 bp
RefSeq ORF:	2853 bp
Locus ID:	170916
UniProt ID:	Q924S5
Cytogenetics:	9q12
Gene Summary:	mitochondrial ATP-dependent protease that displays increased expression under conditions of brain ischemia, hypoxia, and ER stress [RGD, Feb 2006]