

Product datasheet for **MC222791**

Lonp1 (NM_028782) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lonp1 (NM_028782) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Lonp1
Synonyms:	1200017E13Rik; LON; Prss15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222791 representing NM_028782
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGCGAGCACAGGCTACGTGCGGCTCTGGGCGCTGCGCGGTGCTGGTCTCGCGCGGCCGCTGC
 TGGCTGTACCGGAGGCCGGTCCCAGCGCGTCCGGTTCGTGGCTGCGCCGAGGATGTCGGCCTGCGA
 CATGTCTAGCTCCCTGGGCGGCCGCTTCTCCGCGGGGTCCAGTGGCGGGGCTGTGGGACTCGGGC
 AACCGCGTGGCAGCGACGAGACCTCCGAGGGCGTGGGAGGACGGGGCCACGGCGAGCACCGGGGAAG
 GCCCGTCTCACAGCGCTCGCGCCATGACCGTCCCGGATGTGTTTCTCACCTGCCGCTCATCGCCAT
 CACCCGCAACCTGTGTTCCCGCTTTATCAAGATCGTGGAGTTAAAAATAAGAAGTTGGTTGAGCTC
 CTGAGAAGGAAAGTCCGACTTGCACAGCCCTATGTTGGCGTCTTCTAAAGAGAGATGACAACAATGAGT
 CGGACGTGGTGGAGACCTGGATGAAATCTACCATACGGGAACATTGCTCAGATTATGAGATGCAGGA
 CCTCGGAGACAAGTTGCGAATGATTGCTACTGGCCACAGAAGGATTCACATCAGCCGGCAGCTGGAGGTG
 GAACCAGAGGGGCTTGGCCAGAGGCAGAGAAACAAAAGTCCAGGAGGAAGCTGAAGCGAGGCAAGAAAG
 AGGTGGAGGATGAGCTGGGCCCAAGCCCCAGCTGGAGATGGTGACCGAGGCTGCCACTGACACATCCAA
 GGAGGTGCTCATGGTGGAGGTTGAGAAATGAGCCCATGAAGACTTCCAGGTACAGAGGAAGTGAAGGCC
 CTGACTGCAGAGATTGTGAAGACCATTCCGGATATCATCGCCTTGAACCTCTGTACAGAGAGTCCGTGC
 TGCAGATGATGCAGGCAGGCCAGCGTGTGGTGGACAACCCCATCTACTTGAGCGACATGGGTGCGGCACT
 CACTGGGCGGAGTCCCATGAGCTGCAAGATGTTCTGGAAGAGACCAACATCCTTAAAGCGCTCTATAAG
 GCCCTGTCTCTTGAAGAAGGAGTTGAGTTGAGCAAGCTTCAGCAACGCCCTAGGCCGTGAGGTAGAGG
 AGAAGATCAAGCAGACACACAGGAAGTACCTGCTGCAGGAGCAGTTGAAGATCATCAAGAAGGAATTGGG
 GCTGGAGAAAGATGATAAAGATGCCATTGAGGAGAAGTTCGGGAACGCCCTCAGGGAGCTTGTGGTTCCC
 AAGCATGTGATGGACGTGGTGGATGAGGAGCTGAGCAAGCTTGCTCTACTGGACAACCACTCCTCTGAGT
 TCAATGCTACTCGAACTACCTGGACTGGCTGACATCCATCCCATGGGGCCGCGAGAGTATGAGAACTT
 GGACTTGGCTCGGGCCAGGCTGTGCTGGAGGAGGACCACTACGGCATGGAGGATGTGAAGAAGCGTGTG
 CTGGAGTTCATTGACGTGAGCCAGCTCAGAGGCTCCACACAAGGCAAGATCCTCTGCTTCCACGGCCAC
 CGGGGGTGGCAAGACCAGCATTGCACGCTCCATTGCCCGTGCCTTGGCCGAGAATACTCCGTTTCAG
 TGTTGGTGGCATGACAGATGTGGCAGAAATCAAGGGGCACAGGCGTACCTACGTGGGGCCATGCCTGGG
 AAGATCATCCAGTGTCTGAAGAAGACCAAGACAGAGAACCGCTAGTGCTCATTGATGAGGTGGACAAGA
 TTGGCCGAGGCTACCAAGGGGACCCGTATCAGCACTGCTGGAGTTGCTGGACCCGAGCAGAAATGCCAA
 CTTCTGGACCACTACCTGGATGTGCCAGTGGATCTGTCCAAGGTGCTATTATCTGCACGGCAATGTC
 ATTGACACCATCCCAGAACCCTGAGGGACCGCATGGAGATGATCAATGTGTCTGGCTATGTAGCACAGG
 AGAAGCTGGCCATCGCAGAGCGGTACCTGGTGGCCAGGCCCCGACCCCTGTGTGGCTAGATGAGAGCAA
 GGCCAGCTGTGACGAGCAGTGTCACTGCTCATCAAGCAATACTGCAGGGAGAGTGGTGTGCGCAAC
 CTACAGAAGCAGGTGGAGAAGGTGCTGCGCAAGGCTGCATAACAAGATCGTAAGTGGGGAGGCCAGACAG
 TACAGGTGACACCTGAGAACCTACAAGACTTTGTTGGGAAGCCTGTGTTACAGTGGAGCGCATGTACGA
 AGTCACACCTCCTGGCGTGGTCAATGGGTTGGCCTGGACTGCCATGGGGGCTCTACATTGTTTGTGGAG
 ACATCTTTGAGGCGGCCAGCCTAGTGGCAGCAAGGAGGACAAGGATGGCAGCCTAGAGGTGACAGGTC
 AGCTGGGAGATGTGATGAAAGAGAGTGCCTGCATAGCCTACACCTATGCTCGTGCCTTCTGATGGAGCA
 GGACCCTGAAAATGACTTCTAGTACCTCACACATCCACCTGCATGTGCTGAGGGTGTACCCCCAAG
 GATGGTCCAGCGCAGGCTGTACTATTGCTACTGCACTGCTGCTCCTGGCTCTGGCCAGCCAGTGTTC
 AGAACCTGGCTATGACTGGGAGGTCTCCCTACTGGCAAGGTGTTGCCTGTGGGTGGCATCAAGGAGAA
 GACCATTGCGGCTAAGCGTGCAGGTGTGACCTGCATATTCTGCCTGCTGAGAACAGAAAGGACTACTCG
 GATTTAGCTCCTTTTATCACAGAGGGCCTTGAAGTTCACCTCGTGAACACTATCGGGACATATCCCCA
 TTGCCCTCCCCGCGAGAGCACAGGGAGGCACTGGCCGTGGAGAGATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN:	NM_028782
Insert Size:	2850 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_028782.2 , NP_083058.2
RefSeq Size:	2970 bp
RefSeq ORF:	2850 bp
Locus ID:	74142
UniProt ID:	Q8CGK3
Cytogenetics:	17 D
Gene Summary:	ATP-dependent serine protease that mediates the selective degradation of misfolded, unassembled or oxidatively damaged polypeptides as well as certain short-lived regulatory proteins in the mitochondrial matrix. May also have a chaperone function in the assembly of inner membrane protein complexes. Participates in the regulation of mitochondrial gene expression and in the maintenance of the integrity of the mitochondrial genome. Binds to mitochondrial promoters and RNA in a single-stranded, site-specific, and strand-specific manner. May regulate mitochondrial DNA replication and/or gene expression using site-specific, single-stranded DNA binding to target the degradation of regulatory proteins binding to adjacent sites in mitochondrial promoters.[UniProtKB/Swiss-Prot Function]