

## Product datasheet for **MC219952**

### Clpx (NM\_011802) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Clpx (NM_011802) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Clpx
Synonyms:	AU014732; E330029I21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC219952 representing NM\_011802  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCAGTTGCGGCGCTTGTACCTGCGGCGCTGCGGCCGCCCGCTTCTCACCCTTCGCTCACCTCCG  
 CGCAGAGAGGTATTTCTGTGGCGAATCCATGTGCCAGTGTTAGGAAGACTGGGACGACCTTGGACGC  
 TCAGGCTCTGCGCAGAGCTCCTCTTAGAACCTTTTCAGAAACACCAGCATACTTTGCCTCAAAGACGGG  
 GCAAACAAGGATGGCTCCGGAGATGAAATAAGAAATCAGTGACTGAAGGAAGCAGTAAGAAATCAGGCT  
 CTGGGAATTTGGGAAAGGTGAAACCAGCTTCGCTGTCTAAATGTGGTGATTTGTGTACACACGTGGA  
 GACCTTTGTGCTTCCACGCGTTTTGTTAAGTGTGAAAAATGTCATATTTTTTTGTGGTGTGTCGGAA  
 GCAGACTCAAAGAAAAGCATAATTAAGGAACCCGAGTCCGCTGCAGAGGCTGTGAAGTTGGCATTCCAGC  
 AGAAGCCACCTCCGCCCCCAAAAAGATTTATAACTACCTCGACAAGTATGTTGTTGGCCAGTCGTTTGC  
 TAAGAAAGTGCTTTCAGTTGCCGTGATAATCATTATAAGAGAATATATAATAATTCCAGCTAATCTG  
 AGACAGCAAGCAGAGGCTGAGAAGCAGACATCACTAACACCTAGAGAGTTAGAAAATAAGAAGACGGGAGG  
 ATGAGTACAGATTTACAAAGTTGCTTCAGATCGCTGGGATCAGCCACACGGCAATGCCTTGGGAGCCTC  
 TATGCAGCAGCAGGTAACCAGCAAATGCCTCAGGAGAAAAGAGGAGGTGAAGTGTGGACTCTTCTCAA  
 GATGATATAAACTGGAAAAAGTAATATTTTGTGCTTGGACCAACTGGGTGAGTAAAACCTTCTCG  
 CACAACTTTAGCTAAATGCCTTGATGTTCTTTTGTCTATCTGTGACTGTACAACCTTGACCCAGGCTGG  
 ATATGTAGGTGAAGATATTGAATCTGTGATTGCCAACTACTCCAAGTGCCAATTACAATGTAGAGAAA  
 GCACAACAAGGAATTGTCTTTCTGGATGAAGTAGATAAGATTGGCAGTGTCCAGGCATTCAATTA  
 GGCATGTAGGTGGAGAAGCGTTTCAGCAAGGTTTATTAACCTCTAGAAGGCACAATAGTCAATGTTCC  
 AGAAAAGAATTCTGAAAACACTCGTGGAGAGACAGTTCAAGTTGATACAACAAATGTCTTGTGTTGGCA  
 TCTGGTGCCTTTAATGGCTTAGACAGAATCATCAGCAGGAGGAAAAATGAAAAGTATCTCGGCTTTGAA  
 CACCATCTAACCTGGGAAAGGGCAGAAGGGCTGCAGCTGCAGCGGATCTTGCTAACCGAAGTGGGGAATC  
 TAACACTCATCAGGACATTGAGGAGAAAGACCGGTTACTCCGCCATGTGGAAGCCAGAGATCTTATTGAG  
 TTTGGCATGATACCAGAGTTTGTGGACGGTGCCTGTGGTGGTTCCTTGCACAGCCTAGATGAGAAGA  
 CACTTGTACAAACTGACCGAGCCACGGAATGCTGTTATTCCTCAGTATCAGGCCTTGTTCAGCATGGA  
 TAAGTGTGAGCTGAATGTTACTGAGGATGCTCTGAAAGCCATAGCGAGATTGGCCCTGGAAGAAAAACA  
 GGTGCACGAGGCCTTCGGTCTATAATGGAAGCTGTTACTAGAACCAATGTTTGAAGTCTAATTCTG  
 ACATTGTATGTGTGGAAGTTGACAAAGAAGTAGTGAAGGCAAAAAGGAACCAGGATACATTCGGGCACC  
 CTCAAAGAGTCTCTGAAGAGGAATATGACTCTGGAGTGGAGGAGGATGGATGGCTCGTCAAGCGGAT  
 GCTGCAACAGCT**AA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3214\\_f08.zip](https://cdn.origene.com/chromatograms/ja3214_f08.zip)

**Restriction Sites:** Sgfl-RsrII

**ACCN:** NM\_011802

**Insert Size:** 1905 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:**

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\\_011802.3](#), [NP\\_035932.2](#)

**RefSeq Size:** 2886 bp

**RefSeq ORF:** 1905 bp

**Locus ID:** 270166

**UniProt ID:** [Q9JHS4](#)

**Cytogenetics:** 9 35.22 cM

**Gene Summary:** ATP-dependent specificity component of the Clp protease complex. Hydrolyzes ATP. Targets specific substrates for degradation by the Clp complex. Can perform chaperone functions in the absence of CLPP. Enhances the DNA-binding activity of TFAM and is required for maintaining a normal mitochondrial nucleoid structure (PubMed:10347188). ATP-dependent unfoldase that stimulates the incorporation of the pyridoxal phosphate cofactor into 5-aminolevulinate synthase, thereby activating 5-aminolevulinate (ALA) synthesis, the first step in heme biosynthesis. Important for efficient erythropoiesis through upregulation of heme biosynthesis (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).