

## Product datasheet for **SC115941**

### CLPX (NM\_006660) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLPX (NM_006660) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLPX
Synonyms:	EPP2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC115941 sequence for NM\_006660 edited (data generated by NextGen Sequencing)

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ATGCCAGCTGCGGTGCTTGTACTTGCGGCGCGGCGGCCGTCCGGCTCATCACCTCCTNN
NNNNCTCCGCGCAGAGAGGATTTCTGGTGGTCGCATTCATATGTCAGTTTTAGGAAGG
CTTGGGACATTTGAACTCAGATTCTGNNNNGAGCTCCTCTTAGATCCTTTACAGAAACA
CCAGCATACTTTGCCTCAAAAGATGGGATAAGTAAAGATGGTTCTGGAGATGGAAATAAG
AAATCAGCAAGTGAGGGAAGTAGTAAGAAATCAGGCTCTGGGAATCTGGGAAAGGTGGA
AACCAGCTGCGCTGTCTAAATGTGGCGACTTGTGCACACATGTAGAGACCTTTGTATCA
TCCACCCGTTTTGTCAAGTGTGAAAAGTGCATCATTTTTTTTTGTTGTGCTATCTGAAGCA
GACTCAAAGAAAAGCATAATTAAGAACCTGAATCAGCAGCAGAAGCTGTAAAATTGGCA
TTCCAACAGAAAACCACCCTCCCCCTAAGAAGATTTATAACTACCTCGACAAGTATGTT
GTTGGCCAGTCATTTGCTAAGAAGGTGCTTTTCAGTTGCTGTGTACAATCATTATAAGAGA
ATATAATAATATCCCAGCTAATCTGAGACAGCAAGCAGAGGTTGAGAAGCAGACATCA
TTAACACCAAGAGAGTTAGAAAATAAGAAGACGGGAGGATGAGTACAGATTTACAAAATTG
CTTCAGATTGCTGGAATTAGCCACATGGTAATGCTTTAGGAGCATCAATGCAGCAACAG
GTAAATCAACAAATACCTCAGGAAAAACGAGGAGGTGAAGTATTGGATTCTTCTCATGAT
GACATAAAACTTGAAAAAGTAATATTTTGCTGCTTGACCAACTGGGTGAGTAAAACT
CTGCTGGCACAACCCCTAGCTAAATGCCTTGATGTCCCTTTTGCTATCTGTGACTGTACA
ACTTTGACTCAGGCTGGATATGTAGGCGAAGATATTGAATCTGTGATTGCAAACTACTC
CAAGATGCCAATTATAATGTGGAAAAAGCACAACAAGGAATTGTCTTTCTGGATGAAGTA
GATAAGATTGGCAGTGTGCCAGGCATTCATCAATTACGGGATGTAGGTGGAGAAGGCGTT
CAGCAAGGCTTATTAATACTACTAGAAGGCACAATAGTCAATGTTCCAGAAAAGAATTCC
CGAAAGCTCCGTGGGAAACAGTTCAAGTTGATACAACAACATCCTGTTTGTGGCATCT
GGTGCTTTCAATGGTTTAGACAGAATCATCAGCAGGAGGAAAAATGAAAAGTATCTTGG
TTTGGAAACACCATCTAATCTGGGAAAAGCAGAAGGGCTGCAGCTGCTGCAGACCTTGT
AATCGAAGTGGGGAATCGAATACTACCAAGACATTGAAGAAAAAGATCGGTTATTGCGT
CATGTGGAAGCCAGAGATCTGATTGAGTTTGGCATGATTCCTGAGTTTGTGGACGGTTG
CCTGTGGTGGTTCCATTGCATAGCCTAGATGAGAAAACACTTGTACAAATATTAAGTGA
CCACGAAATGCTGTTATTCCTCAGTACCAGGCCTTATTCAGCATGGATAAGTGTGAAGT
AATGTTACTGAGGATGCTTTGAAAGCTATAGCCAGATTGGCACTAGAACGAAAAACAGGT
GCACGAGGCCTTCGGTCCATAATGGAAAAGCTGTTACTAGAACCAATGTTTGAAGTCCCT
AATTCTGATATCGTATGTGTGGAGGTTGACAAAGAAGTAGTAGAAGGAAAAAAGGAACCA
GGATACATCCGGGCTCCAACAAAAGAATCCTCTGAAGAGGAGTATGACTCTGGAGTTGAA
GAAGAAGGATGGCCCCGCAAGCAGATGCTGCAACAGCTAA

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Clone variation with respect to NM\_006660.3  
59 c=>n;60 a=>n;61 c=>n;62 t=>n;63 c=>n;64 g=>n;148 c=>n;149 a=>n;150 a=>n;151 a=>n

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006660 unedited  
 ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGGGGGGGTGGGTGTCTAC  
 TCTGGTGAATAGACGGCTGTGGGCAGAGAAGCGTGAAGGCTGGCTGCCGGCAGGTGA  
 ACTCTCCACGGGGTCTAGGGCCCGCAAAGGGTTCGGAACCGAGTCAGCGCGCCTTGCGG  
 GCAGGATTCACGCCGCTGTGACCCGGAGGTCTCAGGGGGCGAAGCCCCGGCCTAGGCC  
 CGCGGAGATGCCAGCTGCGGTGCTTGTACTTGCGGCGCGGGCCGTCGGGCTCATCAC  
 CTCCTCACTCGCCTCCGCGCAGAGAGGTATTTCTGGTGGTCGCATTCATATGTCAGTTTT  
 AGGAAGGCTTGGGACATTTGAACTCAGATTCTGCAAAGAGCTCCTCTTAGATCCTTTAC  
 AGAAACACCAGCATACTTTGCCTCAAAAGATGGGATAAGTAAAGATGGTTCTGGAGATGG  
 AAATAAGAAATCAGCAAGTGAGGAAAGTAAAGAAATCAGGCTCTGGGAATTCTGGGAA  
 AGGTGGAACCAGCTGCGCTGTCCTAAATGTGGCGACTTGTGCACACATGTAGAGACCTT  
 TGTATCATCCACCGTTTTGTCAAGTGTAAAAGTGCATCATTNTTTTTGGTGTGCTAT  
 CTGAAGCAGACTCANAGAAAAGCATAATTAAGAAACCTGATCAGCAGCAGAAGCTGTAA  
 AATTGGCATTNCAACAGAAACCANCACCTNCCCCTAAGAAGATTAACTACCTCGACAG  
 TATGGTTGGTGGCCAGTCTTTGCTAAGAAGGGCTTTCAGTTGCTGGGTCATCTTTTTAG  
 AGAATTTTANTATTCCCAGCTATCTGAGACAGCAGCAAGTTGGAAGCAGACTCTTTACA  
 CCAGAGAGTAGAATAANACGGGGGTGAGTCAGATTACCAATGCTTCAATGCTGAATAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006660 unedited  
 GCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTAAATTTTAAAAATTTATTTTCC  
 CATTTGTAGAGTAACATTATTGTAAGTCTACAGTTATCGCAATACCTGCATTGCTTAA  
 AGAATTCCTAAAAATTTGTTAAAGCATATTTTTTTAAAAAACTGAACAAAATAATGTA  
 CATTTTATCTCTAACATTGTGTCTTAAAGTCCATATAACATCTTCCGTAATCAATG  
 TGATGTTACAATTATATACATGATCTGATTCTTCTCTAAAGGCTTCTCTGACCATGTAT  
 GATATCCAAGATAGATCCAATGCCTTAAATATCAGACTGTAGAGACAATTATGATCCTAA  
 ACAAAGAAGGAAAAGCTGTATATAAAGACAGCAATATGACAGTTTAGCTGTTTGCAGC  
 ATCTGCTTGGCGGGCCATCCTTCTTCAACTCCAGAGTCATACTCCTCTTCCAGAGGA  
 TTCTTTTGTGGAGCCCGGATGTATCCTGGTCCTTTTTCTTCTACTACTTCTTTGNC  
 AACCTCCACACATACGATATCAGAATTAGGGACTTCAAACATTGGTTCTAGTAACAGCTT  
 TTCCATTATGGACCGAAGCCTCGTGCACCTGTTTTTCTGTCTAGTGCCAACTGGCTAT  
 AGCTTTCAAAGCATCCTCAGTAACATTTCAGTTCACACTTATCCATGCTGAATAAGGCCTG  
 GACTGANGAATAACAGATTTCTGGCTCAGTAATTTGTACAAGTGTCTCATCTA  
 GGCTATGCATGGAACCCNNCACAGCACCGTCCCACAACCTCAGAATCATGCCAACTCATCA  
 GATCCTGGCTCCAATGAGNCATACCGATCTTTTCTCATGNNCTGNGAGATCCGATCCCAC  
 TTCATANCAAGTCTGCAGACTGAGCCCTGCTTTTCAATNAAATGGGTCCAACAGAAA  
 CTTCAATTTCTCTCCGAAGATCGC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006660

**Insert Size:**

2500 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\\_006660.3](#), [NP\\_006651.2](#)

**RefSeq Size:** 2351 bp

**RefSeq ORF:** 1902 bp

**Locus ID:** 10845

**UniProt ID:** [O76031](#)

**Cytogenetics:** 15q22.31

**Domains:** AAA, AAA

**Protein Families:** Protease

**Gene Summary:** The protein encoded by this gene is part of a protease found in mitochondria. This protease is ATP-dependent and targets specific proteins for degradation. The protease consists of two heptameric rings of the CLPP catalytic subunit sandwiched between two hexameric rings of the chaperone subunit encoded by this gene. Targeted proteins are unwound by this protein and then passed on to the CLPP subunit for degradation. Two transcript variants, one protein-coding and the other non-protein coding, have been found for this gene. [provided by RefSeq, Nov 2015]

**Transcript Variant:** This variant (1) represents the longer, protein-coding transcript. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.