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# Product datasheet for RC215555

## CLPX (NM_006660) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | CLPX (NM_006660) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | CLPX |
| **Synonyms:** | EPP2 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

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**ORF Nucleotide Sequence:**

>RC215555 representing NM_006660
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCCAGCTGCGGTGCTTGTACTTGCGGCGCGGCGGCCGTCCGGCTCATCACCTCCTCACTCGCCTCCG
CGCAGAGAGGTATTTCTGGTGGTCGCATTCATATGTCAGTTTTAGGAAGGCTTGGGACATTTGAAACTCA
GATTCTGCAAAGAGCTCCTCTTAGATCCTTTACAGAAACACCAGCATACTTTGCCTCAAAAGATGGGATA
AGTAAAGATGGTTCTGGAGATGGAAATAAGAAATCAGCAAGTGAGGGAAGTAGTAAGAAATCAGGCTCTG
GGAATTCTGGGAAAGGTGGAAACCAGCTGCGCTGTCCTAAATGTGGCGACTTGTGCACACATGTAGAGAC
CTTTGTATCATCCACCCGTTTTGTCAAGTGTGAAAAGTGTCATCATTTTTTTGTTGTGCTATCTGAAGCA
GACTCAAAGAAAAGCATAATTAAAGAACCTGAATCAGCAGCAGAAGCTGTAAAATTGGCATTCCAACAGA
AACCACCACCTCCCCCTAAGAAGATTTATAACTACCTCGACAAGTATGTTGTTGGCCAGTCATTTGCTAA
GAAGGTGCTTTCAGTTGCTGTGTACAATCATTATAAGAGAATATATAATAATATCCCAGCTAATCTGAGA
CAGCAAGCAGAGGTTGAGAAGCAGACATCATTAACACCAAGAGAGTTAGAAATAAGAAGACGGGAGGATG
AGTACAGATTTACAAAATTGCTTCAGATTGCTGGAATTAGCCCACATGGTAATGCTTTAGGAGCATCAAT
GCAGCAACAGGTAAATCAACAAATACCTCAGGAAAAACGAGGAGGTGAAGTATTGGATTCTTCTCATGAT
GACATAAAACTTGAAAAAAGTAATATTTTGCTGCTTGGACCAACTGGGTCAGGTAAAACTCTGCTGGCAC
AAACCCTAGCTAAATGCCTTGATGTCCCTTTTGCTATCTGTGACTGTACAACTTTGACTCAGGCTGGATA
TGTAGGCGAAGATATTGAATCTGTGATTGCAAAACTACTCCAAGATGCCAATTATAATGTGGAAAAAGCA
CAACAAGGAATTGTCTTTCTGGATGAAGTAGATAAGATTGGCAGTGTGCCAGGCATTCATCAATTACGGG
ATGTAGGTGGAGAAGGCGTTCAGCAAGGCTTATTAAAACTACTAGAAGGCACAATAGTCAATGTTCCAGA
AAAGAATTCCCGAAAGCTCCGTGGAGAAACAGTTCAAGTTGATACAACAAACATCCTGTTTGTGGCATCT
GGTGCTTTCAATGGTTTAGACAGAATCATCAGCAGGAGGAAAAATGAAAAGTATCTTGGATTTGGAACAC
CATCTAATCTGGGAAAAGGCAGAAGGGCTGCAGCTGCTGCAGACCTTGCTAATCGAAGTGGGGAATCGAA
TACTCACCAAGACATTGAAGAAAAAGATCGGTTATTGCGTCATGTGGAAGCCAGAGATCTGATTGAGTTT
GGCATGATTCCTGAGTTTGTGGGACGGTTGCCTGTGGTGGTTCCATTGCATAGCCTAGATGAGAAAACAC
TTGTACAAATATTAACTGAGCCACGAAATGCTGTTATTCCTCAGTACCAGGCCTTATTCAGCATGGATAA
GTGTGAACTGAATGTTACTGAGGATGCTTTGAAAGCTATAGCCAGATTGGCACTAGAACGAAAAACAGGT
GCACGAGGCCTTCGGTCCATAATGGAAAAGCTGTTACTAGAACCAATGTTTGAAGTCCCTAATTCTGATA
TCGTATGTGTGGAGGTTGACAAAGAAGTAGTAGAAGGAAAAAAGGAACCAGGATACATCCGGGCTCCAAC
AAAAGAATCCTCTGAAGAGGAGTATGACTCTGGAGTTGAAGAAGAAGGATGGCCCCGCCAAGCAGATGCT
GCAAACAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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**Protein Sequence:**

>RC215555 representing NM_006660
Red=Cloning site Green=Tags(s)

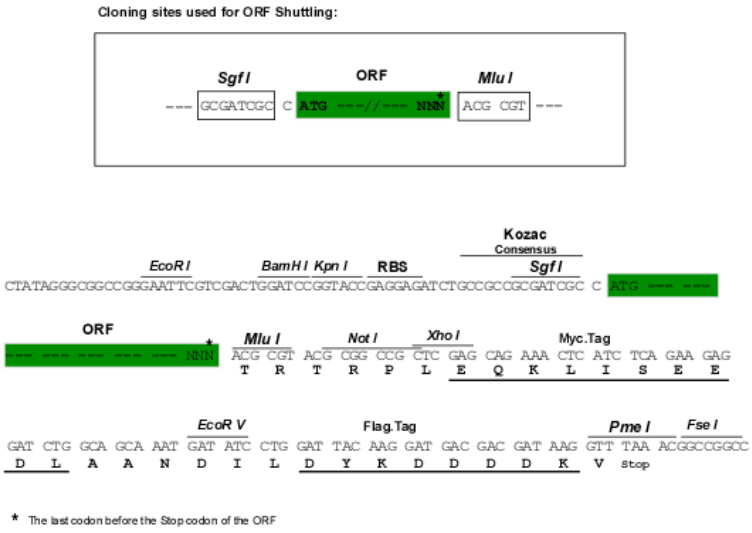
MPSCGACTCGAAAVRLITSSLASAQRGISGGRIHMSVLGRLGTFETQILQRAPLRSFTETPAYFASKDGI
SKDGSGDGNKKSASEGSSKKSGSGNSGKGGNQLRCPKCGDLCTHVETFVSSTRFVKCEKCHHFFVVLSEA
DSKKSIIKEPESAAEAVKLAFQQKPPPPPKKIYNYLDKYVVGQSFAKKVLSVAVYNHYKRIYNNIPANLR
QQAEVEKQTSLTPRELEIRRREDEYRFTKLLQIAGISPHGNALGASMQQQVNQQIPQEKRGGEVLDSSHD
DIKLEKSNILLLGPTGSGKTLLAQTLAKCLDVPFAICDCTTLTQAGYVGEDIESVIAKLLQDANYNVEKA
QQGIVFLDEVDKIGSVPGIHQLRDVGGEGVQQGLLKLLEGTIVNVPEKNSRKLRGETVQVDTTNILFVAS
GAFNGLDRIISRRKNEKYLGFGTPSNLGKGRRAAAAADLANRSGESNTHQDIEEKDRLLRHVEARDLIEF
GMIPEFVGRLPVVVPLHSLDEKTLVQILTEPRNAVIPQYQALFSMDKCELNVTEDALKAIARLALERKTG
ARGLRSIMEKLLLEPMFEVPNSDIVCVEVDKEVVEGKKEPGYIRAPTKESSEEEYDSGVEEEGWPRQADA
ANS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk8078_g04.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_006660

**ORF Size:** 1899 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

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**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_006660.5

**RefSeq Size:** 2351 bp

**RefSeq ORF:** 1902 bp

**Locus ID:** 10845

**UniProt ID:** O76031

**Cytogenetics:** 15q22.31

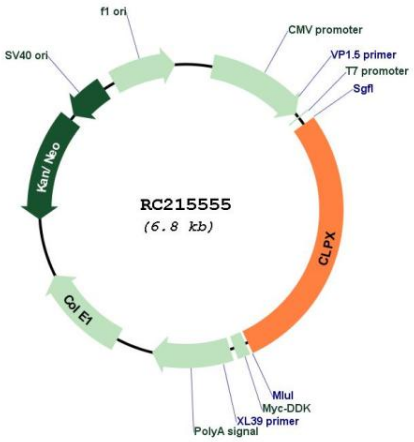
**Domains:** AAA, AAA

**Protein Families:** Protease

**MW:** 69 kDa

**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]

## Product images:




Circular map for RC215555

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