

Product datasheet for **RG215555**

CLPX (NM_006660) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLPX (NM_006660) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLPX
Synonyms:	EPP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215555 representing NM_006660
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCAGCTGCGGTGCTTGTACTTGCAGCGCGCGGCCGCTCCGGCTCATCACCTCTCACTCGCTCCG
 CGCAGAGAGGTATTTCTGGTGGTCGCATTCATATGTCAGTTTTAGGAAGGCTTGGGACATTTGAACTCA
 GATTCTGCAAAGAGCTCCTCTTAGATCCTTTACAGAAACACCAGCATACTTTGCCTCAAAAAGATGGGATA
 AGTAAAGATGGTCTGGAGATGGAAATAAGAAATCAGCAAGTGAAGGAAAGTAGTAAAGAAATCAGGCTCTG
 GGAATTCGGAAAGGTGAAACCAGCTGCGCTGTCTAAATGTGGCGACTTGTGCACACATGTAGAGAC
 CTTTGTATCATCCACCCGTTTTGTCAAGTGTGAAAAGTGCATCATTTTTTTGTTGTGCTATCTGAAGCA
 GACTCAAAGAAAAGCATAATTAAGAACCTGAATCAGCAGCAGAAGCTGTAAAATGGCATTCCAACAGA
 AACCCACCTCCCCTAAGAAGATTTAACTACCTCGACAAGTATGTTGTTGGCCAGTCAATTTGCTAA
 GAAGGTGCTTTCAGTTGCTGTGTACAATCATTATAAGAGAATATAATAATATCCAGCTAATCTGAGA
 CAGCAAGCAGAGGTTGAGAAGCAGACATCATTAAACCAAGAGAGTTAGAAATAAGAAGACGGGAGGATG
 AGTACAGATTTACAAAATTGCTTCAGATTGCTGGAATTAGCCACATGGTAAATGCTTTAGGAGCATCAAT
 GCAGCAACAGGTAATCAACAAATACCTCAGGAAAAACGAGGAGGTGAAGTATTGGATTCTTCTCATGAT
 GACATAAAACTTGAAAAAGTAATTTTTGCTGCTTGGACCAACTGGGTCAAGTAAAACCTGCTGGCAC
 AAACCCTAGCTAAATGCCTTGATGTCCCTTTTGTATCTGTGACTGTACAACCTTGTACTCAGGCTGGATA
 TGTAGGCGAAGATATTGAATCTGTGATTGCAAACTACTCCAAGTGCCAATTAATGTGGAAAAAGCA
 CAACAAGGAATTGCTTTCTGGATGAAGTAGATAAGATTGGCAGTGTGCCAGGCATTATCAATGTTCCAGA
 ATGTAGGTGGAGAAGCGTTTCAGCAAGCCTTATAAACTACTAGAAGGCACAATAGTCAATGTTCCAGA
 AAAGAATTCCTGAAAGCTCCGTGGAGAAAACAGTTCAAGTTGATACAACAACATCCTGTTTGTGGCATCT
 GGTGCTTTCAATGGTTTAGACAGAAATCATCAGCAGGAGGAAAAATGAAAAGTATCTTGGATTGGAACAC
 CATCTAATCTGGGAAAAGGCAGAAAGGCTGCAGCTGCTGCAGACCTTGTAAATCGAAGTGGGAAATCGAA
 TACTCACCAAGACATTGAAGAAAAAGATCGGTTATTGCGTCATGTGGAAGCCAGAGATCTGATTGAGTTT
 GGCATGATTCCTGAGTTTGTGGGACGTTGCTGTGGTGGTCCATTGCATAGCCTAGATGAGAAAAACAC
 TTGTACAAATATAACTGAGCCACGAAATGCTGTTATTCCTCAGTACCAGGCCTATTTCAGCATGGATAA
 GTGTGAACTGAATGTTACTGAGGATGCTTTGAAAGCTATAGCCAGATTGGCACTAGAACGAAAAACAGGT
 GCACGAGGCTTCGGTCCATAATGGAAAAGCTGTTACTAGAACCAATGTTTGAAGTCCCTAATTCTGATA
 TCGTATGTGTGGAGGTTGACAAAGAAGTAGTAGAAGGAAAAAGGAACCCAGGATACATCCGGCTCCAAC
 AAAAGAATCCTCTGAAGAGGAGTATGACTCTGGAGTTGAAGAAGAAGGATGGCCCCGCCAAGCAGATGCT
 GCAAACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215555 representing NM_006660
 Red=Cloning site Green=Tags(s)

MPSCGACTCGAAAVRLITSSLASAQRGISGGRIHMSVLGRLGTFETQILQRAPLRSFTETPAYFASKDGI
 SKDGSQDGNKKSASEGSSKKSNGSGNQLRCPKCGDLCTHVETFVSSTRFVKCEKCHFFVVLSEA
 DSKKSIIEKESAAEAVKLAFFQKPPPPPKKIYNYLDKYVVGQSFACKVLSVAVYNHYKRIYNNIPANLR
 QQAEVEKQTSLTPRELEIRRREDEYRFKLLQIAGISPHGNALGASMQQVQVQIPQEKRGGEVLDSSHD
 DIKLEKSNILLGPTGSGKTLAQTLAKCLDVPFAICDCTTLTQAGYVGEDIESVIAKLLQDANYNVEKA
 QQGIIVFLDEVKIGSVPIHQLRDVGGEGVQQGLLKLLEGTIVNVPEKNSRKLGETVQVDTTNILFVAS
 GAFNGLDRIISRKNEKYLGFGTPSNLKGRRAAAAADLANRSGESNTHQDIEEKDRLLRHVEARDLIEF
 GMIPEFVGRPLPVVPLHSLDEKTLVQILTEPRNAVIPQYQALFSMDKCELVNTEADALKAIALRALERKTG
 ARGLRSIMEKLLLEPMFEVPSNDIVCIVEVDKEVVEGKKEPGYIRAPTKESSSEEEYDSGVEEEGWPRQADA
 ANS

TRTRPLE - GFP Tag - V

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).
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_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
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]