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Product datasheet for MC219879

Clpx (NM_001044389) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Clpx (NM_001044389) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Clpx
Synonyms:	AU014732; E330029I21
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC219879 representing NM_001044389
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCAGTTGCGGCGCTTGTACCTGCGGCGCTGCGGCCGCCCGGCTTCTCACCACTTCGCTCACCTCCG
CGCAGAGAGGTATTTCGTGTGGGCGAATCCATGTGCCAGTGTTAGGAAGACTGGGGACGACCTTGGACGC
TCAGGCTCTGCGCAGAGCTCCTCTTAGAACCTTTTCAGAAACACCAGCATACTTTGCCTCAAAAGACGGG
GCAAACAAGGATGGCTCCGGAGATGGAAATAAGAAATCAGTGACTGAAGGAAGCAGTAAGAAATCAGGCT
CTGGGAATTCTGGGAAAGGTGGAAACCAGCTTCGCTGTCCTAAATGTGGTGATTTGTGTACACACGTGGA
GACCTTTGTGTCTTCCACGCGTTTTGTTAAGTGTGAAAAATGTCATCATTTTTTTGTGGTGCTGTCGGAA
GCAGACTCAAAGAAAAGCATAATTAAGGAACCCGAGTCCGCTGCAGAGGCTGTGAAGTTGGCATTCCAGC
AGAAGCCACCTCCGCCCCCCAAAAAGATTTATAACTACCTCGACAAGTATGTTGTTGGCCAGTCGTTTGC
TAAGAAAGTGCTTTCAGTTGCCGTGTATAATCATTATAAGAGAATATATAATAATATTCCAGCTAATCTG
AGACAGCAAGCAGAGGCTGAGAAGCAGACATCACTAACACCTAGAGAGTTGCTTCAGATCGCTGGGATCA
GCCCACACGGCAATGCCTTGGGAGCCTCTATGCAGCAGCAGGTAAACCAGCAAATGCCTCAGGAGAAAAG
AGGAGGTGAAGTGTTGGACTCTTCTCAAGATGATATAAAACTGGAAAAAAGTAATATTTTGCTGCTTGGA
CCAACTGGGTCAGGTAAAACCCTTCTGGCACAAACTTTAGCTAAATGCCTTGATGTTCCTTTTGCTATCT
GTGACTGTACAACTTTGACCCAGGCTGGATATGTAGGTGAAGATATTGAATCTGTGATTGCCAAACTACT
CCAAGATGCCAATTACAATGTAGAGAAAGCACAACAAGGAATTGTCTTTCTGGATGAAGTAGATAAGATT
GGCAGTGTGCCAGGCATTCATCAATTACGGGATGTAGGTGGAGAAGGCGTTCAGCAAGGTTTATTAAAAC
TTCTAGAAGGCACAATAGTCAATGTTCCAGAAAAGAATTCTCGAAAACTACGTGGAGAGACAGTTCAAGT
TGATACAACAAATGTCTTGTTTGTGGCATCTGGTGCCTTTAATGGCTTAGACAGAATCATCAGCAGGAGG
AAAAATGAAAAGTATCTCGGCTTTGGAACACCATCTAACCTGGGAAAGGGCAGAAGGGCTGCAGCTGCAG
CGGATCTTGCTAACCGAAGTGGGGAATCTAACACTCATCAGGACATTGAGGAGAAAGACCGGTTACTCCG
CCATGTGGAAGCCAGAGATCTTATTGAGTTTGGCATGATACCAGAGTTTGTGGGACGGTTGCCTGTGGTG
GTTCCTTTGCACAGCCTAGATGAGAAGACACTTGTACAAATACTGACCGAGCCACGGAATGCTGTTATTC
CTCAGTATCAGGCCTTGTTCAGCATGGATAAGTGTGAGCTGAATGTTACTGAGGATGCTCTGAAAGCCAT
AGCGAGATTGGCCCTGGAAAGAAAAACAGGTGCACGAGGCCTTCGGTCTATAATGGAAAAGCTGTTACTA
GAACCAATGTTCGAAGTTCCTAATTCTGACATTGTATGTGTGGAAGTTGACAAAGAAGTAGTAGAAGGCA
AAAAGGAACCAGGATACATTCGGGCACCCTCAAAAGAGTCCTCTGAAGAGGAATATGACTCTGGAGTGGA
GGAGGATGGATGGCCTCGTCAAGCGGATGCTGCAAACAGCTAA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001044389

Insert Size: 1863 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_001044389.2, NP_001037854.1
RefSeq Size:	2844 bp
RefSeq ORF:	1863 bp
Locus ID:	270166
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 (2) lacks an alternate in-frame exon, compared to variant 1. It encodes isoform 2, which is shorter than isoform 1.