

## Product datasheet for **RC234699**

### CLPB (NM\_001258392) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLPB (NM_001258392) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CLPB
Synonyms:	ANKCLB; HSP78; MEGCANN; MGCA7; SKD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC234699 representing NM\_001258392  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGGGGTCCCTGGTGTGAGGAGAAAAGCACTGGCGCCACGGCTACTCCTCCGGCTGCTCAGGTCCC  
 CAACGCTCCGGGGCCATGGAGGTGCTTCCGGCCGGAATGTGACTACTGGGAGTCTCGGGGAGCCGAGTG  
 GCTGAGGGTAGCCACCGGGGGCGCCCTGGAACATCGCCGGCCTTGTCTCCGGAGCTGGGGCAGCCACC  
 GGGGGGCGCCAGGGAGGACGCTTCGATACCAAATGCCTCGCGGCTGCCACTTGGGGACGCTTCTGGTC  
 CCGAAGAAACTCCAGGACAGGACAGCTGGAACGGGGTCCCCAGCAGGGCCGGACTGGGCATGTGCGC  
 CCTGGCCGACGCTGGTGGTTCATTGCTACAGCAAGAGTCCGTCCAACAAGGATGCAGCCCTGTTGAA  
 GCTGCCGTGCCAACATATGCAAGAAGTCAGCAGGCTGTTGTCAGAAGGTGCAGATGTCAATGCAAAGC  
 ACAGACTTGGCTGGACAGCACTCATGGTGGCAGCCATCAACCGAAACAACAGTGTGGTACAGGTCTGCT  
 TGCTGCTGGGGCTGATCCAAACCTTGGAGATGATTTCCAGCAGTGTTCACAAGACTGCCAAGGAACAGGGA  
 ATCCATTCCTTTGGAAGTCTGATCACCCGAGAGGATGACTTCAACAACAGGCTGAACAACCGCGCCAGTT  
 TCAAGGGCTGCACGGCCTTGCACTATGCTGTTCTTGTGCTGACTACCGCACTGTCAAGGAGCTGCTTGA  
 TGGAGGAGCAACCCCTGCAGAGGAATGAAATGGGACACACACCCTTGGATTATGCCCGAGAAGGGGAA  
 GTGATGAAGCTTCTGAGGACTTCTGAAGCCAAGTACCAAGAGAAGCAGCGGAAGCGTGAGGCTGAGGAGC  
 GGCGCCGCTTCCCCTGGAGCAGCGACTAAAGGAGCACATCATTGGCCAGGAGAGCGCCATCGCCACAGT  
 GGGTGTGCGATCCGGAGGAAGGAGAATGGCTGGTACGATGAAGAACACCCTCTGGTCTTCTCTTCTTG  
 GGATCATCTGGAATAGGAAAAACAGAGCTGGCCAAGCAGACAGCCAAATATATGCACAAAGATGCTAAAA  
 AGGGCTTCATCAGGCTGGACATGTCCGAGTTCAGGAGCGACACGAGGTGGCCAAGTTTATTGGGTCTCC  
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 GTGCTCTTTGATGAAGTAGACAAGGCCATCCAGATGTGCTCACCATCATGCTGCAGCTGTTTGATGAGG  
 GCCGGCTGACAGATGGAAAAGGGAAGACCATTGATTGCAAGGACGCCATCTTCATCATGACCTCCAATGT  
 GGCCAGCGACGAGATCGCACAGCAGCGCTGCAGCTGAGGCAGGAAGCTTTGGAGATGAGCCGTAACCGT  
 ATTGCCGAAAACCTGGGGGATGTCCAGATAAGTGACAAGATCACCATCTCAAAGAACTTCAAGGAGAATG  
 TGATTCCGCTATCCTGAAAGCTCACTCCGGAGGGATGAGTTTCTGGGACGGATCAATGAGATCGTCTA  
 CTTCTCCCTTCTGCCACTCGGAGCTCATCCAACCTCGTCAACAAGGAATAAATTCTGGGCAAGAGA  
 GCCAAGCAAAGGCACAACATCACGCTGCTCTGGGACCGGAGGTGGCAGATGTGCTGGTGCACGGCTACA  
 ATGTGCACTATGGCGCCCGCTCCATCAAACATGAGGTAGAACGCCGTGTGGTGAACCAGCTGGCAGCAGC  
 CTATGAGCAGGACCTGCTGCCAGGGGGTGTACTTTGCGCATCACGGTGGAGGACTCAGACAAGCAGCTA  
 CTCAAAGCCCAGAACTGCCCTCACCCAGGCTGAGAAGCGCCTCCCAAGCTGCGTCTGGAGATCATCG  
 ACAAGGACAGCAAGACTCGCAGACTGGACATCCGGGCACCACTGCACCCTGAGAAGGTGTGCAACACCAT  
 C

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234699 representing NM\_001258392  
Red=Cloning site Green=Tags(s)

```
MLGSLVLRKALAPRLLRLLRSPTLRGHGGASGRNVTTGSLGEPQWLRVATGGRPGTSPALFSGRGAAT
GGROGGRFDTKCLAAATWGRLPGPEETLPGQDSWNGVPSRAGLGMCAAALVVHCYSKSPSNKDAALLE
AARANNMQEVSRLLESEGADVNAKHRLGWTALMVAAINRNNSVVQVLLAAGADPNLGDDFSSVYKTAKEQG
IHSLEVLITREDDFNNRLNRRASFKGCTALHYAVLADDYRTVKELLDGGANPLQRNEMGHTPLDYAREGE
VMKLLRTSEAKYQEKQRKREAEERRRFPLEQRLKEHIIGQESAIATVGAAIRRKENGWYDEEHPLVFLFL
GSSGIGKTELAKQTAKYMHKDAKKGFIRLDMSEFQERHEVAKF IGSPPGYVGHEEGQLTKLKLQCPNAV
VLFDEVDKAHPDVLTIMLQLFDEGRLTDGKGKIDCKDAIFIMTSNVASDEIAQHALQLRQEALEMSRNR
IAENLGDVQISDKITISKNFKENVIRPILKAHFRRDEFLGRINEIVYFLPFCHSELIQLVNKELNFWAKR
AKQRHNITLLWDREVADVLVDGYNVHYGARSIKHEVERRVYNQLAAAYEQDLLPGGCTLRITVEDSDKQL
LKSPPELSPQAEKRLPKLRLEIIDKDSKTRRLDIRAPLHPEKVCNTI
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001258392

**ORF Size:** 2031 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).

**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\\_001258392.3](#)

**RefSeq Size:** 3182 bp

**RefSeq ORF:** 2034 bp

**Locus ID:** 81570

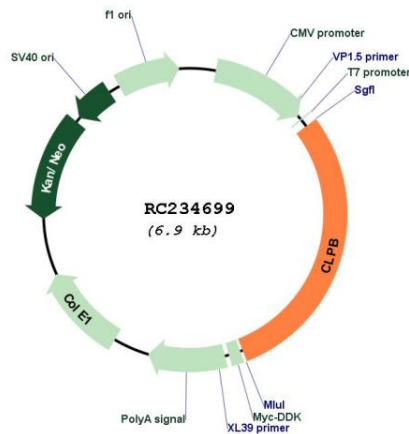
**UniProt ID:** [Q9H078](#)

**Cytogenetics:** 11q13.4

**MW:** 75.9 kDa

**Gene Summary:** This gene belongs to the ATP-ases associated with diverse cellular activities (AAA+) superfamily. Members of this superfamily form ring-shaped homo-hexamers and have highly conserved ATPase domains that are involved in various processes including DNA replication, protein degradation and reactivation of misfolded proteins. All members of this family hydrolyze ATP through their AAA+ domains and use the energy generated through ATP hydrolysis to exert mechanical force on their substrates. In addition to an AAA+ domain, the protein encoded by this gene contains a C-terminal D2 domain, which is characteristic of the AAA+ subfamily of Caseinolytic peptidases to which this protein belongs. It cooperates with Hsp70 in the disaggregation of protein aggregates. Allelic variants of this gene are associated with 3-methylglutaconic aciduria, which causes cataracts and neutropenia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]

### Product images:



Circular map for RC234699