

Product datasheet for **RG234699**

CLPB (NM_001258392) Human Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | CLPB (NM_001258392) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | CLPB |
| Synonyms: | ANKCLB; HSP78; MEGCANN; MGCA7; SKD3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RG234699 representing NM_001258392
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGGGGTCCCTGGTGTGAGGAGAAAAGCACTGGCGCCACGGCTACTCTCCGGCTGCTCAGGTCCC
 CAACGCTCCGGGGCCATGGAGGTCTTCCGGCCGGAATGTGACTACTGGGAGTCTCGGGGAGCCGAGTG
 GCTGAGGGTAGCCACCGGGGGCGCCCTGGAACATCGCCGGCCTTGTCTCCGGAGCTGGGGCAGCCACC
 GGGGGGCGCCAGGGAGGACGCTTCGATACCAAATGCCTCGCGGCTGCCACTTGGGGACGCTTCTGGT
 CCGAAGAAACTCCCAGGACAGGACAGCTGGAACGGGGTCCCCAGCAGGGCCGGACTGGGCATGTGCGC
 CCTGGCCGACGCTGGTGGTTCATTGCTACAGCAAGAGTCCGTCCAACAAGGATGCAGCCCTGTTGAA
 GCTGCCGTGCCAACATATGCAAGAAGTCAGCAGGCTGTTGTCAGAAGGTGCAGATGTCAATGCAAAGC
 ACAGACTTGGCTGGACAGCACTCATGGTGGCAGCCATCAACCGAAACAACAGTGTGGTACAGGTCTGCT
 TGCTGCTGGGGCTGATCCAAACCTTGGAGATGATTTCCAGCAGTGTTCACAAGACTGCCAAGGAACAGGGA
 ATCCATTTCTTTGGAAGTCTGATCACCCGAGAGGATGACTTCAACAACAGGCTGAACAACCGCGCCAGTT
 TCAAGGGCTGCACGGCCTTGCACTATGCTGTTCTTGTGCTGACTACCGCACTGTCAAGGAGCTGCTTGA
 TGGAGGAGCAACCCCTGCAGAGGAATGAAATGGGACACACACCCTTGGATTATGCCCGAGAAGGGGAA
 GTGATGAAGCTTCTGAGGACTTCTGAAGCCAAGTACCAAGAGAAGCAGCGGAAGCGTGAGGCTGAGGAGC
 GGCGCCGCTTCCCCCTGGAGCAGCGACTAAAGGAGCACATCATTGGCCAGGAGAGCGCCATCGCCACAGT
 GGGTGTGCGATCCGGAGGAAGGAGAATGGCTGGTACGATGAAGAACACCCTCTGGTCTTCTCTTCTTG
 GGATCATCTGGAATAGGAAAAACAGAGCTGGCCAAGCAGACAGCCAAATATATGCACAAAGATGCTAAAA
 AGGGTTCATCAGGCTGGACATGTCCGAGTTCAGGAGCGACACGAGGTGGCCAAGTTTATTGGGTCTCC
 ACCAGGCTACGTTGGCCATGAGGAGGGTGGCCAGCTGACCAAGAAGTTGAAGCAGTGCCCAATGCTGTG
 GTGCTCTTTGATGAAGTAGACAAGGCCATCCAGATGTGCTCACCATCATGCTGCAGCTGTTTGATGAGG
 GCCGGCTGACAGATGGAAAAGGGAAGACCATTGATTGCAAGGACGCCATCTTCATCATGACCTCCAATGT
 GGCCAGCGACGAGATCGCACAGCAGCGCTGCAGCTGAGGCAGGAAGCTTTGGAGATGAGCCGTAACCGT
 ATTGCCGAAAACCTGGGGGATGTCCAGATAAGTGACAAGATCACCATCTCAAAGAACTTCAAGGAGAATG
 TGATTCGCCCTATCCTGAAAGCTCACTCCGGAGGGATGAGTTTCTGGGACGGATCAATGAGATCGTCTA
 CTTCTCCCTTCTGCCACTCGGAGCTCATCCAACCTCGTCAACAAGGAATAAATTCTGGGCAAGAGA
 GCCAAGCAAAGGCACAACATCACGCTGCTCTGGGACCGGAGGTGGCAGATGTGCTGGTGCACGGCTACA
 ATGTGCACTATGGCGCCCGCTCCATCAAACATGAGGTAGAACGCCGTGTGGTGAACCAGCTGGCAGCAGC
 CTATGAGCAGGACCTGCTGCCAGGGGGTGTACTTTGCGCATCACGGTGGAGGACTCAGACAAGCAGCTA
 CTCAAAGCCCAGAACTGCCCTCACCCAGGCTGAGAAGCGCCTCCCAAGCTGCGTCTGGAGATCATCG
 ACAAGGACAGCAAGACTCGCAGACTGGACATCCGGGCACCACTGCACCCTGAGAAGGTGTGCAACACCAT
 C

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234699 representing NM_001258392
 Red=Cloning site Green=Tags(s)

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MLGSLVLRKALAPRLLRLLRSPTLRGHGGASGRNVTTGSLGEPQWLRVATGGRPPTSPALFSGRGAAT
GGRQGGRFDTKCLAAATWGRLPGPEETLPGQDSWNGVPSRAGLGMCAAALVHHCYSKSPSNKDAALLE
AARANNMQEVSRLLESEGADVNAKHRLGWTALMVAAINRNNSVVQVLLAAGADPNLGDDFSSVYKTAKEQG
IHSLEVLITREDDFNNRLNRRASFKGCALHYAVLADDYRTVKELLDGGANPLQRNEMGHTPLDYAREGE
VMKLLRTSEAKYQEKQRKREAEERRRFPLEQRLKEHIIGQESAIATVGAAIRRKENGWYDEEHPLVFLFL
GSSGIGKTELAKQTAKYMHKDAKKGFIRLDMSEFQERHEVAKF IGSPPGYVGHEEGQLTKLKLQCPNAV
VLFDEVDKAHPDVLTIMLQLFDEGRLTDGKGKIDCKDAIFIMTSNVASDEIAQHALQLRQEALEMSRNR
IAENLGDVQISDKITISKNFKENVIRPILKAHFRRDEFLGRINEIVYFLPFCHSELIQLVNKELNFWAKR
AKQRHNITLLWDREVADVLVDGYNVHYGARSIKHEVERRVQNLAAYEQDLLPGGCTLRITVEDSKQL
LKSPPELSPQAEKRLPKLRLEIIDKDSKTRRLDIRAPLHPEKVCNTI
  
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TRTRPLE - GFP Tag - V

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

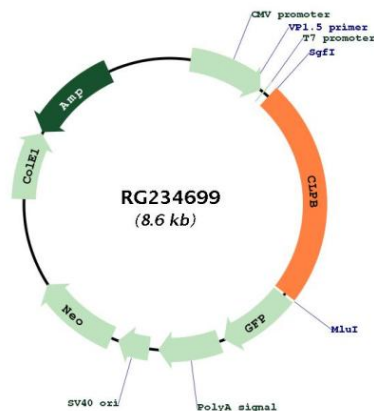
Locus ID: 81570

UniProt ID: [Q9H078](#)

Cytogenetics: 11q13.4

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 RG234699