

## Product datasheet for **RC203013**

### CLPB (NM\_030813) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CLPB (NM_030813) 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:

>RC203013 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGCTGGGGTCCCTGGTGTGAGGAGAAAAGCACTGGCGCCACGGCTACTCCTCCGGCTGCTCAGGTCCC  
CAACGCTCCGGGGCCATGGAGGTGCTTCCGGCCGGAATGTGACTACTGGGAGTCTCGGGGAGCCGAGTG  
GCTGAGGGTAGCCACCGGGGGCCCTGGAACATCGCCGGCCTTGTCTCCGGAGCTGGGGCAGCCACC  
GGGGGGCGCCAGGGAGGACGCTTCGATACCAAATGCCTCGCGGCTGCCACTTGGGGACGCTTCTGGT  
CCGAAGAAACTCCCAGGACAGGACAGCTGGAACGGGGTCCCCAGCAGGGCCGGACTGGGCATGTGCGC  
CCTGGCCGACGCTGGTGGTTCATTGCTACAGCAAGAGTCCGTCCAACAAGGATGCAGCCCTGTTGAA  
GCTGCCGTGCCAACATATGCAAGAAGTCAGCAGGCTGTTGTCAGAAGGTGCAGATGTCAATGCAAAGC  
ACAGACTTGGCTGGACAGCACTCATGGTGGCAGCCATCAACCGAAACAACAGTGTGGTACAGGTCTGCT  
TGCTGCTGGGGCTGATCCAAACCTTGGAGATGATTTTCAGCAGTGTTCACAAGACTGCCAAGGAACAGGGA  
ATCCATTTCTTTGGAAGATGGGGGACAGGACGGTGAAGCCGGCAGATCACAAACCAGTGGACAAGTGCC  
TGGAGTTCAGGAGATGGCTAGGACTCCCCGCTGGCGTCTGATCACCCGAGAGGATGACTTCAACAACAG  
GCTGAACAACCGCCAGTTTCAAGGGCTGCACGGCCTTGCATATGCTGTTCTTGTGATGACTACCGC  
ACTGTCAAGGAGCTGCTTATGAGGAGCAACCCCTGCAGAGGAATGAAATGGGACACACACCCTTGG  
ATTATGCCCGAGAAGGGGAAGTATGAGCTTCTGAGGACTTCTGAAGCCAAGTACCAAGAGAAGCAGCG  
GAAGCGTGAGGCTGAGGAGCGCGCCGCTTCCCCTGGAGCAGCGACTAAAGGAGCACATCATTGGCCAG  
GAGAGCGCCATCGCCACAGTGGGTGCTGCGATCCGGAGGAAGGAGAATGGCTGGTACGATGAAGAACC  
CTCTGGTCTTCTTCTTGGATCATCTGGAATAGGAAAAACAGAGCTGGCCAAGCAGCAGCCAAATA  
TATGCACAAAGATGCTAAAAAGGCTTTCATCAGGCTGGACATGTCCGAGTTCAGGAGCGACACGAGGTG  
GCCAAGTTTATTGGGTCTCCACCAGGCTACGTTGGCCATGAGGAGGGTGGCCAGCTGACCAAGAAGTTGA  
AGCAGTGCCCAATGCTGTGGTCTCTTATGAGTAGACAAGGCCATCCAGATGTGCTCACCATCAT  
GCTGCAGCTGTTGATGAGGGCCGGCTGACAGATGGAAAAGGGAAGACCATTGATTGCAAGGACGCCATC  
TTCATCATGACCTCCAATGTGGCCAGCGACGAGATCGCACAGCACGCGCTGCAGCTGAGGCAGGAAGCTT  
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AAAGAACTTCAAGGAGAATGTGATTCGCCCTATCCTGAAAGCTCACTTCCGGAGGGATGAGTTTCTGGGA  
CGGATCAATGAGATCGTCTACTTCTCCCTTCTGCCACTCGGAGCTCATCCAACCTGTCACAAGGAAC  
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GTGAACCAGCTGGCAGCAGCCTATGAGCAGGACCTGCTGCCAGGGGGCTGTACTTTGCGCATCACGGTGG  
AGGACTCAGACAAGCAGCTACTCAAAGCCAGAACTGCCCTCACCCAGGCTGAGAAGCGCCTCCCCAA  
GCTGCTGTTGGAGATCATCGACAAGGACAGCAAGACTCGCAGACTGGACATCCGGGCACCACTGCACCT  
GAGAAGGTGTGCAACCCATC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203013 protein sequence  
 Red=Cloning site Green=Tags(s)

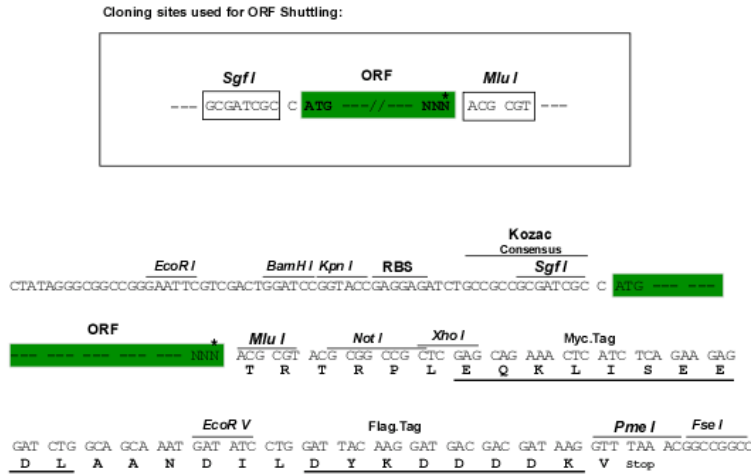
MLGSLVLRKALAPRLLRLLRSPTLRGHGGASGRNVTTGSLGEPQWLRVATGGRPGTSPALFSGRGAAT  
 GGRQGGRFDTKCLAAATWGRLPGPEETLPGQDSWNGVPSRAGLGMCAAALVHCYSKSPSNKDAALLE  
 AARANNMQEVSRLLESEGADVNAKHRLGWTALMVAAINRNSVVQVLLAAGADPNLGDDFSSVYKTAKEQG  
 IHSLEDGGQDGASRHITNQWTSALEFRRLWGLPAGVLTREDDFNRLNRRASFKGCTALHYAVLADDYR  
 TVKELLDDGANPLQRNEMGHPTPLDYAREGEVMKLLRTSEAKYQEKQRKREAEERRRFPLEQRLKEHIIGQ  
 ESAIATVGAAIRKENGWYDEEHLVFLFLGSSGIGKTELAQTAKYMHKDAKKGFIKRLDMSEFQERHEV  
 AKFIGSPPGYVGHEEGQLTKKLKQCPNAVVLFDVDKAHPDVLTIMLQLFDEGRLTDGKGKTIDCKDAI  
 FIMTSNVASDEIAQHALQLRQEALEMSRNRIENLGDVQISDKITISKNFKENVIRPILKAHFRDFELG  
 RINEIVYFLPFCHSELIQLVNKELNFWAKRAKQRHNITLLWDREVADVLVDGYNVHYGARSIKHEVERRV  
 VNQLAAAYEQDLLPGGCTLRITVEDSDKQLLKSPELPSQAERKLPKLRLEIIDKDSKTRRLDIRAPLHP  
 EKVCNTI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6209\\_h07.zip](https://cdn.origene.com/chromatograms/mk6209_h07.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_030813

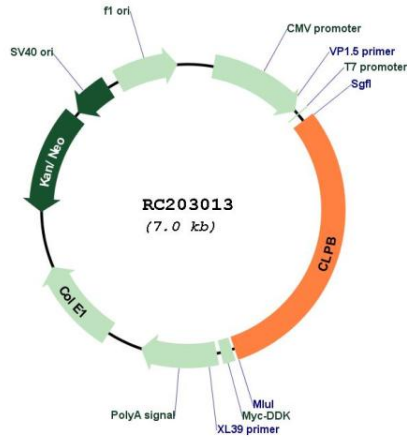
ORF Size: 2121 bp

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](#)

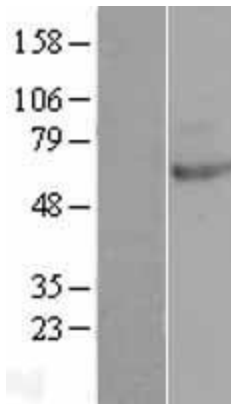
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_030813.6</a>
<b>RefSeq Size:</b>	3272 bp
<b>RefSeq ORF:</b>	2124 bp
<b>Locus ID:</b>	81570
<b>UniProt ID:</b>	<a href="#">Q9H078</a>
<b>Cytogenetics:</b>	11q13.4
<b>MW:</b>	78.7 kDa
<b>Gene Summary:</b>	<p>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]</p>

Product images:



Circular map for RC203013



Western blot validation of overexpression lysate (Cat# [LY410684]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203013 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).