

Product datasheet for **SC330677**

CLPB (NM_001258394) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CLPB (NM_001258394) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLPB
Synonyms:	ANKCLB; HSP78; MEGCANN; MGCA7; SKD3
Vector:	pCMV6-Entry (PS100001)

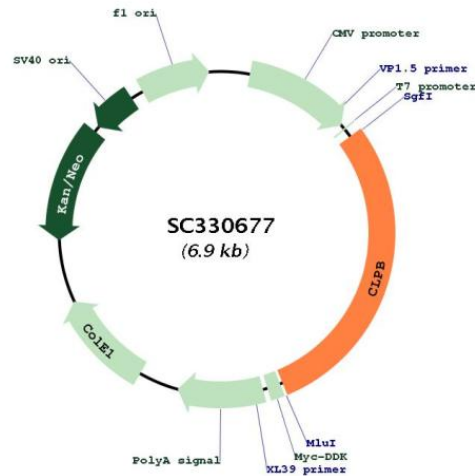


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Fully Sequenced ORF: >SC330677 representing NM_001258394.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCCTCGCGGCTGCCACTTGGGGACGCCTTCTGGTCCCGAAGAACTCCAGGACAGGACAGCTG
GAACGGGTCCCCAGCAGGGCCGACTGGGCATGTGCCCTGGCCGACGCGTGGTGGTTCATTGCTA
CAGCAAGAGTCCGTCCAACAAGGATGCAGCCCTGTTGGAAGCTGCCCGTCCAACAATATGCAAGAAGT
CAGCAGCCCCAAGAGACTGCAAAGAATGATGCTCAGTCAAGAAGCTGGCAGGGCTGAATGCTGGAGTC
TACTGAAGAACACCAAGATTTCTCTCTGAATGGCCCTCAGGCTGTTGTGAGAAGGTGACAGATGTC
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TCCATCAAACATGAGGTAGAACCGGTGTGGTGAACCAGCTGGCAGCAGCCTATGAGCAGGACCTGCTG
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CCCTCACCCAGGCTGAGAAGCGCTCCCAAGCTGCGTCTGGAGATCATCGACAAGGACAGCAAGACT
CGCAGACTGGACATCCGGGCACCACTGCACCCTGAGAAGGTGTGCAACCCATCTAG
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001258394

Insert Size: 1989 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_001258394.1](#)

RefSeq Size: 3379 bp

RefSeq ORF: 1989 bp

Locus ID: 81570

UniProt ID: [Q9H078](#)

Cytogenetics: 11q13.4

MW: 74.5 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]

Transcript Variant: This variant (4) differs in the 5' UTR and contains an alternate exon in the 5' coding region that results in initiation of translation at an alternate start codon and a novel 5' coding region compared to variant 1. The encoded isoform (4) is shorter than and has a distinct N-terminus compared to isoform 1.