

## Product datasheet for SC325824

### HEAB (CLP1) (NM\_001142597) Human Untagged Clone

#### Product data:

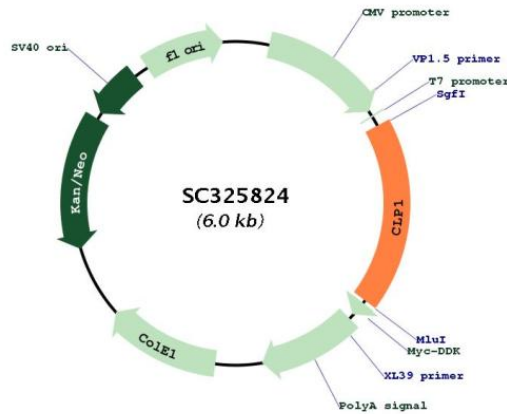
Product Type:	Expression Plasmids
Product Name:	HEAB (CLP1) (NM_001142597) Human Untagged Clone
Tag:	Tag Free
Symbol:	CLP1
Synonyms:	hClp1; HEAB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC325824 representing NM_001142597. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGAGAAGAGGCTAATGATGACAAGAAGCCAACCACTAAATTTGAACTAGAGCGAGAAACAGAAGCTT
CGCTTTGAGGTGGAGGCATCTCAGTCAGTTCAGTTGGAGTTGTTGACTGGCATGGCAGAGATCTTTGGC
ACAGAGCTGACCCGAAACAAGAAATTCACCTTTGATGCTGGTCCAAAGGTGGCTGTTTTCACTTGGCAT
GGCTGTTCTGTGCAACTGAGCGGCCGACTGAGGTGGCTTATGTCTCCAAGGACTCCTATGTTGCTT
TACCTCAACACTCACACAGCCTTGAACAGATGCGGAGGCAAGCGAAAAGGAAGAAGAGCGAGGTCCTC
CGAGTGATGGTAGTGGGCCCCACTGATGTGGGCAAGTCTACAGTGTGTCGCTTCTGCTCAACTACGCA
ATTACATCTCGTTTAGCAGATGTGTTCAACCAAAGGTGTGAGGTGAACCGAAGGGCATCTGTGAGTGGC
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TTTGAGGTGGATGTCGTTGTTGTTCTGGATCAAGAACGACTGTACAATGAACTGAAACGGGACCTCCCC
CACTTTGTACGCACTGTGCTGCTCCCTAAATCTGGGGGTGGTGGAGCGCTCCAAGGACTTCCGGCGG
GAATGTAGGGATGAGCGTATCCGTGAGTATTTTATGGATTCCGAGGCTGTTTCTATCCCATGCCTTC
AATGTCAAATTTTCAGATGTGAAAATCTACAAAGTTGGGGCACCCACCATCCCAGACTCCTGTTTACCT
TTGGGCATGTCTCAAGAGGATAATCAGCTCAAGCTAGTACCTGTCACTCCTGGCGAGATATGGTGCAC
CACCTACTGAGTGTTAGCACTGCCGAGGGTACAGAGGAGAACCTGTCGAGACAAGTGTAGCTGGCTTC
ATTGTGGTGACCAAGTGTGGACCTGGAGCATCAGGTGTTTACTGTTCTGTCTCCAGCCCCTCGCCCACTG
CCTAAGAACTTCTTCTCATCATGGATATCCGGTTCATGGATCTGAAGTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001142597

**Insert Size:** 1086 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001142597.1](#)

**RefSeq Size:** 1672 bp

**RefSeq ORF:** 1086 bp

**Locus ID:** 10978

UniProt ID: [Q92989](#)

Cytogenetics: 11q12.1

MW: 40.7 kDa

**Gene Summary:** This gene encodes a member of the Clp1 family. The encoded protein is a multifunctional kinase which is a component of the tRNA splicing endonuclease complex and a component of the pre-mRNA cleavage complex II. This protein is implicated in tRNA, mRNA, and siRNA maturation. Mutations in this gene are associated with pontocerebellar hypoplasia type 10 (PCH10). Alternatively splice transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2014]  
Transcript Variant: This variant (2) uses an alternate splice donor site and encodes a shorter protein (isoform 2) compared to transcript variant 1.