

## Product datasheet for **RG201772**

### HEAB (CLP1) (NM\_006831) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HEAB (CLP1) (NM_006831) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HEAB
Synonyms:	hClp1; HEAB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201772 representing NM_006831 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGAGAAGAGGCTAATGATGACAAGAAGCCAACCACTAAATTTGAACTAGAGCGAGAAACAGAACTTC  
GCTTTGAGGTGGAGGCATCTCAGTCAGTTCAGTTGGAGTTGTTGACTGGCATGGCAGAGATCTTTGGCAC  
AGAGCTGACCCGAAACAAGAAATTCACCTTTGATGCTGGTGCCAAGGTGGCTGTTTTCACTTGGCATGGC  
TGTTCTGTGCAACTGAGCGGCCGACTGAGGTGGCTTATGTCTCCAAGGACACTCCTATGTTGCTTTACC  
TCAACACTCACACAGCCTTGAACAGATGCGGAGGCAAGCGGAAAAGGAAGAAGCGAGGTCCCGGAGT  
GATGGTAGTGGGCCCCACTGATGTGGGCAAGTCTACAGTGTGTCGCTTCTGCTCAACTACGAGTGCCT  
TTGGGCCCGCTCCCACTTATGTGGAGCTGGATGTGGGCCAGGGTCTGTGTCCATCCCTGGTACCATGG  
GGGCCCTTACATCGAGCGGCCTGCAGATGTGCAAGAGGGTTTCTCTATCCAGGCCCTCTGGTGTATCA  
TTTTGGTTCACCACTCCTGGCACTAACATCAAGCTTTAATAAGATTACATCTCGTTTAGCAGATGTG  
TTCAACCAAGGTGTGAGGTGAACCGAAGGGCATCTGTGAGTGGCTGTGCATTAACACCTGTGGCTGGG  
TCAAGGCTCTGGTTACCAGGCTCTGGTGCATGCAGCCTCAGCTTTTGAGGTGGATGTCGTTGTTGTTCT  
GGATCAAGAACGACTGTACAATGAACTGAAACGGGACCTCCCCACTTTGTACGCACTGTGCTGCCCT  
AAATCTGGGGTGTGGTGGAGCGCTCAAGGACTTCCGGCGGGAATGTAGGGATGAGCGTATCCGTGAGT  
ATTTTTATGGATTCCGAGGCTGTTTCTATCCCCATGCCTTCAATGTCAAATTTTCAGATGTGAAAATCTA  
CAAAGTTGGGGCACCCACCATCCAGACTCCTGTTTACCTTTGGGCATGTCTCAAGAGGATAATCAGCTC  
AAGCTAGTACCTGTCACTCCTGGCGAGATATGGTGCACCACCTACTGAGTGTTAGCACTGCCGAGGGTA  
CAGAGGAGAACCTGTCCGAGACAAGTGTAGCTGGCTTCATTGTGGTGACCAGTGTGGACCTGGAGCATCA  
GGTGTACTGTTCTGTCTCCAGCCCCTCGCCACTGCCTAAGAACTTCTTCTCATCATGGATATCCGG  
TTCATGGATCTGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG201772 representing NM\_006831  
Red=Cloning site Green=Tags(s)

MGEEANDDKPPTTKFELERETELRFEVEASQSVQLELLTGMAEIFGTELTRNKKFTFDAGAKVAVFTWHG  
 CSVQLSGRTEVAYVSKDTPMLLYLNTHTALEQMRRQAEKEEERGPRVMVVGPTDVGKSTVCRLLLNYAVR  
 LGRRPITYVELDVGGQSVSIPGTMGALYIERPADVEEGFSIQAPLVYHFGSTTPGTNIKLYNKITSRLADV  
 FNQRCEVNRASVSGCVINTCGWVKSGSYQALVHAASAFEVDVVVLDQERLYNELKRDLPHFVRTVLLP  
 KSGGVVERSKDFRRECRDERIREYFYGFRGCFYPHAFNVKFSVKIYKVGAPTIPDSCLPLGMSQEDNQL  
 KLVVPTPGRDMVHLLSVSTAEGTEENLSETSVAGFIVVTSVDLEHQVFTVLSAPRPLPKNFLLIMDIR  
 FMDLK

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006831

**ORF Size:** 1275 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\\_006831.3](#)

**RefSeq Size:** 2437 bp

**RefSeq ORF:** 1278 bp

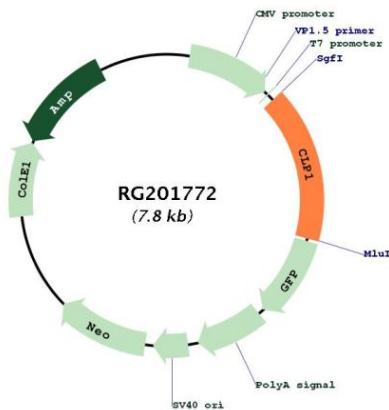
**Locus ID:** 10978

**UniProt ID:** [Q92989](#)

**Cytogenetics:** 11q12.1

**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]

## Product images:



Circular map for RG201772