

## Product datasheet for **RG227367**

### HEAB (CLP1) (NM\_001142597) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HEAB (CLP1) (NM_001142597) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CLP1
Synonyms:	hClp1; HEAB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227367 representing NM_001142597 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGAGAAGAGGCTAATGATGACAAGAAGCCAACCACTAAATTTGAACTAGAGCGAGAAACAGAACTTC  
GCTTTGAGGTGGAGGCATCTCAGTCAGTTCAGTTGGAGTTGTTGACTGGCATGGCAGAGATCTTTGGCAC  
AGAGCTGACCCGAAACAAGAAATTCACCTTTGATGCTGGTGCCAAGGTGGCTGTTTTCACTTGGCATGGC  
TGTTCTGTGCAACTGAGCGGCCGCACTGAGGTGGCTTATGTCTCCAAGGACACTCCTATGTTGCTTTACC  
TCAACTCACACAGCCTTGAACAGATGCGGAGGCAAGCGAAAAGGAAGAAGCGAGGTCCCGAGT  
GATGGTAGTGGGCCCCACTGATGTGGGCAAGTCTACAGTGTGTCGCTTCTGCTCAACTACGCAATTACA  
TCTCGTTTAGCAGATGTGTTCAACCAAAGTGTGAGGTGAACCGAAGGGCATCTGTGAGTGGCTGTGTCA  
TTAACACCTGTGGCTGGGTCAAGGGCTCTGTTACCAGGCTCTGGTGCATGCAGCCTCAGCTTTTGGGT  
GGATGTCGTTGTTGTTCTGGATCAAGAACGACTGTACAATGAACTGAAACGGGACCTCCCCACTTTGTA  
CGCACTGTGCTGCTCCATAATCTGGGGTGTGGTGGAGCGCTCCAAGGACTCCGGCGGGAATGTAGGG  
ATGAGCGTATCCGTGAGTATTTTTATGGATTCCGAGGCTGTTTCTATCCCATGCCTTCAATGTCAAATT  
TTCAGATGTGAAAATCTACAAAGTTGGGCAACCACTCCAGACTCCTGTTTACCTTTGGGCATGTCT  
CAAGAGGATAATCAGCTCAAGCTAGTACCTGTCACTCCTGGGCGAGATATGGTGCACCACTACTGAGTG  
TTAGCACTGCCGAGGGTACAGAGGAGAACCTGTCCGAGACAAGTGTAGCTGGCTTCAATGTGGTGACCAG  
TGTGGACCTGGAGCATCAGGTGTTTACTGTTCTGTCTCCAGCCCTCGCCCACTGCCTAAGAAGCTTCCT  
CTCATCATGGATATCCGGTTCATGGATCTGAAG

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG227367 representing NM\_001142597  
 Red=Cloning site Green=Tags(s)

MGEEANDDKPPTTKFELERETELRFEVEASQSVQLELLTGMAEIFGTELTRNKKFTFDAGAKVAVFTWHG  
 CSVQLSGRTEVAYVSKDTPMLLYLNTHTALEQMRRQAEKEEERGPRVMVVGPTDVGKSTVCRLLLNAYIT  
 SRLADVFNQRCEVNRASVSGCVINTCGWVKSGGYQALVHAASAFEVDVVVLDQERLYNELKRDLPHFV  
 RTVLLPKSGGVVERSKDFRRECRDERIREYFYGFRGCFYPHAFNVKFSVKIYKVGAPTIPDSCLPLGMS  
 QEDNQLKLVPTPGRDMVHLLSVSTAEGTEENLSETSVAGFIVVTSVDLEHQVFTVLSAPRPLPKNFL  
 LIMDIRFMDLK

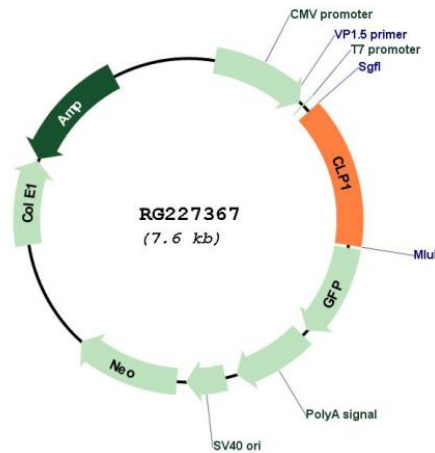
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001142597

<b>ORF Size:</b>	1083 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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_001142597.1</a> , <a href="#">NP_001136069.1</a>
<b>RefSeq Size:</b>	1672 bp
<b>RefSeq ORF:</b>	1086 bp
<b>Locus ID:</b>	10978
<b>UniProt ID:</b>	<a href="#">Q92989</a>
<b>Cytogenetics:</b>	11q12.1
<b>Gene Summary:</b>	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]