

## Product datasheet for **RG207380**

### **BHLHB9 (NM\_030639) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BHLHB9 (NM_030639) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BHLHB9
Synonyms:	GASP3; p60TRP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG207380 representing NM\_030639  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGGGACTAAGAATAAGACAAGAGCCAGGCCAAAAGCTGAAAAAAGGCTGCTATACAAGCTAAAG  
 CTGGAGCAGAGAGGGAGGCTACTGGTGTGTTAGGCCTGTAGCCAAGACCAGGGCCAAAAGCCAAAGCCAA  
 GACAGGGTCTAAGACAGATGCAGTAGCAGAGATGAAGGCAGTGTCTAAGAACAAGGTTGTTGCTGAGACG  
 AAGGAAGGAGCTCTGTCAGAGCCTAAGACTCTGGGCAAAGCCATGGGAGATTTCACTCCCAAGGCTGGGA  
 ATGAGTCCACCAGCTCCACATGTAAAAATGAGGCTGGTACTGATGCCTGGTTCTGGGCTGGGGAAGAGGC  
 CACTATCAATTCCTGGTCTGGAATGGAGAAGAGGCTGGTAATAGTTTCAGCACTAAGAATGATAAACT  
 GAAATTTGGTGGCCAGGCTGTGCTGAGGAGTTGGAACCTGCGGCTGGGGCCGATTGCAAACCTAGGTCAG  
 GGGCTGAGGAGGAGGAGGAAGAGAATGTTATTGGGAAGTGGTTTGGGAAGGAGATGATACTAGTTTGA  
 CCCTAATCCTAAACCTGTGAGCAGGATAGTTAAGCCTCAGCCTGTGTATGAAATTAATGAAAAAATAGG  
 CCCAAGGACTGGTCTGAGGTAATCTGGCCCAATGCCCTGCTGTAACCTCAGCTGTGTTAGGATTTA  
 GATCACAGGCACCATCTGAGGCAAGCCCTCCTTCATATATTGTTCTGGCCTCCGCTGAAGAAAATGCCTG  
 TTCTTTGCCTGTGGCAACAGCTTGCCGCCCTTCTAGGAACACTCGCTCATGCTCACAGCCTATCCCTGAG  
 TGTGTTTTGATTCTGACCCCTGCATCCAGACCATAGATGAGATTAGACGTCAAATCAGGATCAGGGAGG  
 TAAATGGGATTAAGCCATTTGCTGTCTTGCAAAATGGAATGCTATATGGATTCTGAGGAATTTGAAAA  
 ACTTGTAGCTTACTTAAGTCACTACTGATCCTCTTATTCATAAAAATAGCACGGATTGCAATGGGTGTC  
 CATAATGTTCACCCATTTGCCCAAGAGTTTATTAACGAAGTAGGTGTAGTACACTTATTGAAAGCTTGC  
 TCAGTTTTCTCCCTGAAATGAGAAAAAGACTGTAATTAAGTCTGAATCCTCCTCTGGGGATGAAAG  
 ACAACGCAAAAATGAATTAACATGTTAAGCATATGTGTAAGAAACCATGTCATTTCTTTGAACTACCG  
 GGACAGCAATCTGGATTAAGATACTAGGACAAGTACTGACTACTGATTTTGTCCATCACTACATTGTTGCCA  
 ATTACTTTTTCAGAGCTTTTCCATTTGCTGTCTCAGGAAATGCAAAAACAGAAATCTTGTTTTGAAGT  
 ACTTTTAAATATGCTGAAAATCCAAGTGCAGCCAGAGACATGATCAATATGAAGGCATTGGCAGCATT  
 AAAGTCACTTTAACCAGAAAGAGGCAAAAGCCAACTTGTAGTGGTGTGGCCATTTTATTAACATAA  
 AGGAGCATATCAGAAAAGGCTCAATTGTAGTTGTTGATCACTTGAGTTATAATACACTCATGGCCATTTT  
 CAGGGAAGTTAAGAGATTATTGAAACAATG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG207380 representing NM\_030639  
 Red=Cloning site Green=Tags(s)

MAGTKNKTRAQAKTEKKAIIQAKAGAEREATGVVVRPAKTRAKAKAKTGSKTDAVAEMKAVSKNKVVAET  
 KEGALSEPRTLKAMGDFTPKAGNESTSSCKNEAGTDAFWWAGEEATINSWFWNGEEAGNSFSTKNDKP  
 EIGAQVCAEELEPAAGADCKPRSGAEIIIIIIENVIGNWFWEAGDTSFDPNPKPVSRIKVPQPVYIEINEKNR  
 PKDWSEVTIWPNAVTPAVLGFERSQAPSEASPPSYIVLASAEENACSLPVATACRPSRNRTRSCSQPIPE  
 CRFDSDPICITIDEIRRIQIRIREVNGIKPFACPKMECYMDEEFKLVSLKSTTDPLIHKIARIAMGV  
 HNVHPFAQEFINEVGVVTLIESLLSFPSPEMRKKTVITLNPPSGDERQRKIELHVHKMKETMSFPLNSP  
 GQQSGLKILGQLTTDFVHHYIVANYFSELFHLLSSGNCKTRNLVLKLLNMSNPNTAARDMINMKALAL  
 KLIFNQKEAKANLVSGVAIFINIKHIRKGSIVVDHLSYNTLMAIFREVKEIIEIM

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_030639

**ORF Size:** 1641 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\\_030639.1](#), [NP\\_085142.1](#)

**RefSeq Size:** 4004 bp

**RefSeq ORF:** 1644 bp

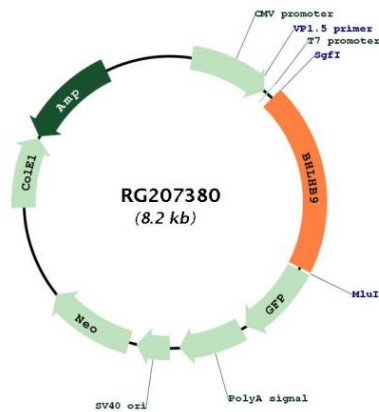
**Locus ID:** 80823

**UniProt ID:** [Q6PI77](#)

**Cytogenetics:** Xq22.1

**Gene Summary:** This gene is a member of a gene family which encodes proteins with a basic helix-loop-helix domain. Other members of this gene family encode proteins which function as transcription factors, either enhancing or inhibiting transcription depending on the activity of other DNA binding proteins. The coding region of this gene is located entirely within the terminal exon. The encoded protein may be involved in the survival of neurons (PMID: 15034937). Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Sep 2011]

**Product images:**



Circular map for RG207380