

Product datasheet for RC224722

BHLHE23 (NM_080606) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: BHLHE23 (NM_080606) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: BHLHE23

Synonyms: bA305P22.3; Beta3b; BETA4; BHLHB4

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC224722 representing NM_080606

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTCGGATTACAAGGATGACGACGATAAGGTTTAA



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

BHLHE23 (NM_080606) Human Tagged ORF Clone - RC224722

Protein Sequence: >RC224722 representing NM_080606

Red=Cloning site Green=Tags(s)

MAELKSLSGDAYLALSHGYAAAAAGLAYGAAREPEAARGYGTPGPGGDLPAAPAPRAPAQAAESSGEQSG DEDDAFEQRRRRRGPGSAADGRRRPREQRSLRLSINARERRRMHDLNDALDGLRAVIPYAHSPSVRKLSK IATLLLAKNYILMQAQALDEMRRLVAFLNQGQGLAAPVNAAPLTPFGQATVCPFSAGAALGPCPDKCAAF

SGTPSALCKHCHEKP

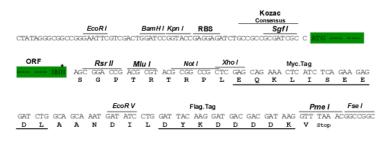
SGPTRTRRLEQKLISEEDLAANDILDYKDDDDK**V**

Chromatograms: https://cdn.origene.com/chromatograms/mk8045 c09.zip

Restriction Sites: Sgfl-Rsrll

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_080606

ORF Size: 675 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: <u>NM 080606.2</u>, <u>NP 542173.1</u>

RefSeq Size: 942 bp
RefSeq ORF: 726 bp
Locus ID: 128408

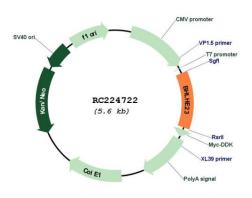
UniProt ID:Q8NDY6Cytogenetics:20q13.33MW:23.5 kDa

Gene Summary: This gene encodes a member of the basic helix-loop-helix transcription factor family.

Members of this family contain two highly conserved and functionally distinct domains: the basic domain targets sequence-specific DNA binding, while the helix-loop-helix domain facilitates protein interaction. Studies of a related gene in mouse suggest that the encoded protein may function as a transcriptional repressor in the pancreas and brain, and that it is

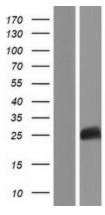
required for normal retinal function. [provided by RefSeq, May 2013]

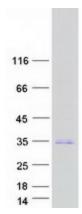
Product images:



Circular map for RC224722







Western blot validation of overexpression lysate (Cat# [LY409150]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224722 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified BHLHE23 protein (Cat# [TP324722]). The protein was produced from HEK293T cells transfected with BHLHE23 cDNA clone (Cat# RC224722) using MegaTran 2.0 (Cat# [TT210002]).