

Product datasheet for **MR221873**

Bhlhe23 (NM_080641) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bhlhe23 (NM_080641) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Bhlhe23
Synonyms: A930001L02Rik; Beta3b; BETA4; Bhlhb4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR221873 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGAGCTCAAGTCGCTGTCGGGGACTCGTACCTGGCGCTGAGCCACAGCTACACGGCGACCGGCC
ACGCCTACGCTGCAGCGCGCGGACCGGAGACCACACGCGGCTTCGGTGATCGGGTCCGGGTGGCGACCT
CCCGCGGCTCCCGCTTCTCGTGTCCCCGCCGACGGTGGAGAGCAGCGCGAGCAGAGCGCGGACGAG
GACGAAGCCTTCGAGAGGCGCGCGCGGCGGAGGGTCCGGGTTGCGGTTGACGCACGGCGCGGCCCC
GGGAGCAGCGCTCGCTGAGGCTCAGCATCAACGCGCGCAACGGCGACGCATGCATGACCTGAACGACGC
GCTGGACGGACTGCGCGCAGTCATCCCCTACGCGCACAGCCCGTCCGGTGCGAAGCTCTCCAAGATAGCC
ACACTTCTGCTGGCCAAAACTACATCCTCATGACGGCGCAGGCCCTGGAGGAGATGCGCGCTTGGTAG
CATACCTCAACCAAGGCCAGGGCCTCGCGGCGCCGGTGGCCGCGCCCTTAACGCCCTTTGGCCAGGC
AGCGATTTACCGTTTCTCGGCGGGCACC GCGCTCGGGCCCTGCCAGACAAGTGTGCCACCTTCTCAGGA
TCGCCCTCGGCGCTTTCGAAACTGCGGCGAGAAGCCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221873 protein sequence
 Red=Cloning site Green=Tags(s)

MAELKSLSGDSYLALSHSYTATGHAYAAARGPETTRGFASGPGGDLPAAPASRVPAATVESSGEQSGDE
 DEAFERRRRRRSGVAVDARRRRPREQSLRLSINARERRRMHDLNDALDGLRAVIPYAHSPSVRKLSKIA
 TLLAKNYILMQAQALEEMRRLVAYLNQGGLAAPVAAAAPLTPFGQAAIYPFSAGTALGPCDKCATFSG
 SPSALCKHCGEKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_080641

ORF Size: 672 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_080641.5](#), [NP_542372.2](#)

RefSeq Size: 2520 bp

RefSeq ORF: 672 bp

Locus ID: 140489

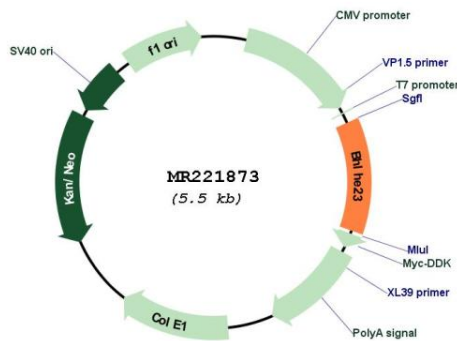
UniProt ID: [Q8BGW3](#)

Cytogenetics: 2 103.34 cM

MW: 23.7 kDa

Gene Summary: May function as transcriptional repressor. May modulate the expression of genes required for the differentiation and/or maintenance of pancreatic and neuronal cell types. May be important for rod bipolar cell maturation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221873