

Product datasheet for **MR228023**

Bhlhe41 (NM_001271768) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bhlhe41 (NM_001271768) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Bhlhe41
Synonyms: 6430520M22Rik; Bhlhb; Bhlhb2l; Bhlhb3; DEC2; Sh; Sharp1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228023 representing NM_001271768
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGACGAAGGAATCCCTCATTGCAAGAGAGACAGTTACTGGAACATAGGGATTTATAGGACTGGACT
ATTCCTCTTTGTATATGTGTAACCCAAAAGGAGCTTGAAGCGAGACGATACCAAGGATACCTACAAGT
ACCGCACAGATTAATAGAAAAGAAGAGACGAGACCGAATTAATGAATGCATTGCTCAGCTGAAAGATTTA
CTGCCCGAACATCTGAAATTGACAACACTGGGGCATTGGAGAAAAGCAGTAGTCTTGAATTAACCTTAA
AGCACTTGAAAGCGCTAACAGCCTTAAGTGAAGCAGCATCAGAAGATAATTGCTTTACAGAATGTCTG
CGGATTATATCGCTGGAATGCCAGGAAAAGCCGAGCTCACTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228023 representing NM_001271768
Red=Cloning site **Green**=Tags(s)
MDEGIPHLQERQLEHRDFIGLDYSSLYMCKPKRSLKRDDTKDITYKLPHRLIEKKRRDRINECIAQLKDL
LPEHLKLTTLGHLEKAVLELTLKHLKALTALTEQQHQKIIALQNVCGLYRWNAQEKPSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

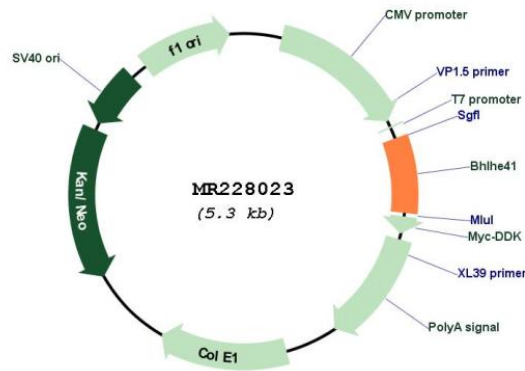


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Cloning Scheme:



Plasmid Map:



ACCN:

NM_001271768

ORF Size:

393 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:	<ol style="list-style-type: none">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_001271768.1</u> , <u>NP_001258697.1</u>
RefSeq Size:	6124 bp
RefSeq ORF:	396 bp
Locus ID:	79362
UniProt ID:	<u>Q99PV5</u>
Cytogenetics:	6 77.7 cM
MW:	15.9 kDa
Gene Summary:	This gene encodes a basic helix-loop-helix protein expressed in various tissues. The encoded protein can interact with Arntl or compete for E-box binding sites in the promoter of Per1 and repress Clock/Arntl's transactivation of Per1. This gene is believed to be involved in the control of circadian rhythm and cell differentiation. Defects in this gene are associated with the short sleep phenotype. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2014]