

Product datasheet for **RR206868**

Bhlhe40 (NM_053328) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bhlhe40 (NM_053328) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Bhlhe40
Synonyms: Bhlhb2; Dec1; SHARP-2; Sharp2; Stra13; Stra14
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR206868 representing NM_053328
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCGGATCCCCAGCGCAACCACCTCCTACCTGCCTGCCAAAACGCCAGGGCTGGAGCACGGAG
 ACCTGTCAGGGATGGATTTTGCCACATGTACCAAGTGTACAAGTCCAGGCGGGGAATAAACCGGAGCGA
 GGACAGCAAGGAACTTACAAATGCGCACCGGTTGATTGAGAAAAAGAGACGTGACCGGATTAACGAG
 TGCATTGCCAGCTGAAGGATCTCTACCCGAACATCTCAACTTACTACTTTGGGTCACTTGGAGAAAG
 CAGTGGTTCTCGAGCTGACGCTGAAGCAGTGAAGCATTGACAAACCTAATTGATCAGCAGCAGCAGAA
 AATCATGGCCCTGCAGAGCGGTTTACAAGCTGGTATCTGTCCGGAAAGAATATTGAGGCAGGACAAGAA
 ATGTTCTGCTCCGGTTTCCAGACCTGTGCCCGGAGGTAATTCAGTACCTGGCCAAGCATGAAAACACTA
 GGGACCTGAAGTCTTCCAGCTTGTCACTCATCTCCACCGTGTGGTCTCTGAACTCCTGCAGGGTAGTGC
 TTCCAGGAAACATTGGACTCAGCTCCCAAACCGTGGACTTCAAAGAGAAGCCAGCTTCTTAGCCAAG
 GGATCAGAAGGCCCTGGGAAAACTGTGTGCCAGTCATCCAGAGGACTTTTGTCCCTCGGGCGGGGAGC
 AGAGTGGTAGTGACACGGACACAGACAGTGGCTACGGAGGCGAATTGGAGAAGGGTACTTGCAGTGA
 GCAACCTACTTCAAGAGCGATCACGGACGCGAGTTACCGTGGGAGAACCGCTCAGCACAATTAAGCAA
 GAATCTGAAGAGCCCCCAAAAAAGAGCCGAATGCAGCTCTCAGATGAGGAAGGCCACTTCGTGGGCA
 GTGACCTGATGGGTTCCCATTTCTTGGGCTCACCCACATCAGCCTCCCTTTTGCCTGCCCTTCTATCT
 CATCCCACCATCGGCCACTGCCTATCTGCCTATGCTGGAGAAATGCTGGTATCCGACCTCTGTGCCACTG
 TTATACCCAGGCCTCAACACCTCAGCAGCAGCCCTCTCCAGTTCATGAACCCAGACAAGATCCCAACTC
 CCTTGCTCCTGCCCCAGAGACTCCCTTCTCCCTTGGCACATTCGTCCTTACTCTTCAGCCTTGTCCA
 GGCCCTGAAGCAGATCCCTCCTTAAACTTAGAAACCAAAGAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR206868 representing NM_053328
Red=Cloning site Green=Tags(s)

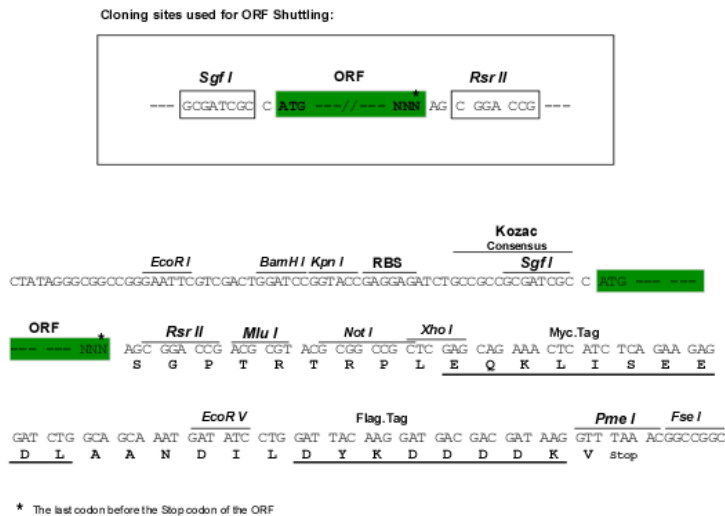
MERIPSAQPPPTCLPKTPGLEHGDL SGMDFAHMYQVYKSRRGIKRSSESKETYKLPHRLIEKRRDRINE
 CIAQLKDLLPEHLKLTTLGHLEKAVVLELTLKHVKALTNLIDQQQKIMALQAGDL SGKNIEAGQE
 MFCSGFQTCAREVLQYLAKHENTRDLKSSQLVTHLHRVSELLQGSASRKPLDSAPKPVDFKEKPSFLAK
 GSEGPGNKCVPIQRTFAPSGGEQSGSDTDTDSGYGGELEKGLRSEQPYFKSDHGRFFTVGERVSTIKQ
 ESEEPPTKSRMQLSDEEGHFVGSDLMGSPFLGPHHPQPPFCLPFYLIPPSATAYLPMLEKCWYPTSVPL
 LYPGLNTSAAALSSFMPNDKIPTPLLLPQLPSPLAHSLLDSSALLQALKQIPPLNLETKD

SGPTRTRRLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1855_e10.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



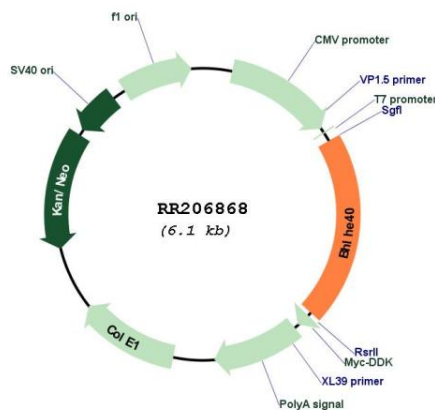
ACCN: NM_053328

ORF Size: 1233 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_053328.1, NP_445780.1</u>
RefSeq Size:	2388 bp
RefSeq ORF:	1236 bp
Locus ID:	79431
UniProt ID:	<u>O35780</u>
Cytogenetics:	4q41
MW:	46 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. [provided by RefSeq, Feb 2014]

Product images:


Circular map for RR206868