

## Product datasheet for MR224224

### Bhlha15 (NM\_010800) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Bhlha15 (NM\_010800) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Bhlha15  
**Synonyms:** 1810009C13Rik; Bhlhb8; MIST-1; Mist1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR224224 representing NM\_010800  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGACAAAAACCGGCCCTCGGCGCCGAACACCCATGCAGGACACAGAAGCCACCCAGGAGAGC  
 AGACACCTGACAGACCCAGTCAGGCTCAGGGGGTCTCAGAGCTGACAAAGGGTCTCCGGAGCAGGACAGC  
 GCGTGCAAGCGGAGGTCGGGAGAGGTCAGCCCGCGCAGGGGTCTGGTGGCCGAGGGAGAAGCAGT  
 GTTCAGAGGCGGCTGGAGAGCAATGAGCGAGAGAGGCAGCGGATGCATAAACTCAACAATGCCTTCAGG  
 CACTGCGCGAGGTCATCCCGCACGTGCGGGCTGACAAGAAGCTCTCCAAGATCGAGACCCACAGCTGGC  
 CAAGAAGTATATCAAGTCGCTGACCGCCACCACTACTATGTCCAGCAGCCGCTCCCGGGGCTGGAG  
 GCACCAGGTCCTGCGCCAGGCCCTAAATTATACCAGCACTACCATCACCAGCAGCAGCAACAGCAGCAGC  
 AGCAGCAGGTAGCTGGGGCCATGCTTGGTGTCACTGAGGACCAGCCCAAGGCCACCTGCAACGCTACTC  
 TACACAGATCCACAGCTTCAGAGAGGGGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR224224 representing NM\_010800  
 Red=Cloning site Green=Tags(s)

MKTKNRPPRRTPMQDTEATPGEQTPDRPQSGSGGSELTKGLRSRTARASGGRGEVSRRRQSGGRRRENS  
 VQRRLSNERERQRMHKLNNAFQALREVIPHVRADKLSKIETLTLAKNYIKSLTATILTMSSSRLPGLG  
 APGPAPGPKLYQHYYHQQQQQQQVAGAMLGVTEDQPQGHLLQRYSTQIHSFREGS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_010800

ORF Size: 591 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\\_010800.4](#), [NP\\_034930.1](#)

RefSeq Size: 3494 bp

RefSeq ORF: 594 bp

Locus ID: 17341

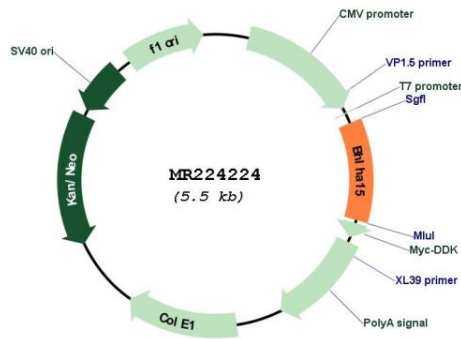
UniProt ID: [Q9QYC3](#)

**Cytogenetics:** 5 G2

**MW:** 22.6 kDa

**Gene Summary:** Plays a role in controlling the transcriptional activity of MyoD, ensuring that expanding myoblast populations remain undifferentiated (PubMed:17612490). Repression may occur through muscle-specific E-box occupancy by homodimers. May also negatively regulate bHLH-mediated transcription through an N-terminal repressor domain. Serves as a key regulator of acinar cell function, stability, and identity. Also required for normal organelle localization in exocrine cells and for mitochondrial calcium ion transport. May function as a unique regulator of gene expression in several different embryonic and postnatal cell lineages. Binds to the E-box consensus sequence 5'-CANNTG-3'. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR224224