

Product datasheet for MG224224

Bhlha15 (NM 010800) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Bhlha15 (NM_010800) Mouse Tagged ORF Clone

Tag: TurboGFP Symbol: Bhlha15

Synonyms: 1810009C13Rik; Bhlhb8; MIST-1; Mist1

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG224224 representing NM_010800

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

 ${\sf TACACAGATCCACAGCTTCAGAGAGGGGAGC}$

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224224 representing NM_010800

Red=Cloning site Green=Tags(s)

MKTKNRPPRRRTPMQDTEATPGEQTPDRPQSGSGGSELTKGLRSRTARASGGRGEVSRRRQGSGGRRENS VORRLESNERERORMHKLNNAFQALREVIPHVRADKKLSKIETLTLAKNYIKSLTATILTMSSSRLPGLE

APGPAPGPKLYQHYHHQQQQQQQQQQVAGAMLGVTEDQPQGHLQRYSTQIHSFREGS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



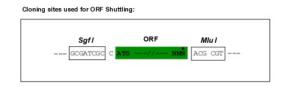
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

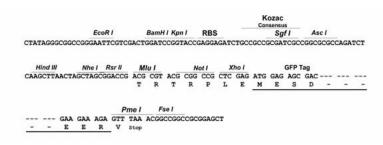
CN: techsupport@origene.cn

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

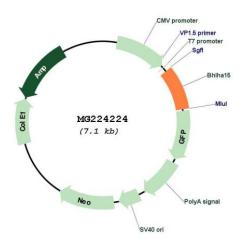


Cloning Scheme:





Plasmid Map:



ACCN: NM_010800 **ORF Size:** 3491 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 010800.4</u>, <u>NP 034930.1</u>

RefSeq ORF: 594 bp
Locus ID: 17341
UniProt ID: Q9QYC3
Cytogenetics: 5 G2

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]