

Product datasheet for **MG207269**

Blmh (NM_178645) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Blmh (NM_178645) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Blmh
Synonyms:	AI035728; Bh; Bmh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207269 representing NM_178645
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACAACGCAGGACTAAATTCGAGAAGGTATCTGCTTTGATCCAGAACTAAATTCGACCCTCAGT
 TCGTACTTGCCAGAATGTCGGGACCACCACGATCTGCTGGACATATGTCTGAGGAGGGCCACGGTCCA
 GGGTGCTCAGCATGTGTTTCAACACGTTGTGCCTCAGGAAGGCAAGCCAGTCACCAACCAGAAGAGCTCT
 GGACGATGCTGGATCTTTTCTGTTTGAATGTTATGAGACTTCCATTCATGAAAAATTTAACATTGAAG
 AATTTGAGTTTAGTCAATCTTACCTGTTTTTTGGGACAAGGTTGAACGCTGTTATTTCTTCTTGAATGC
 TTTTGTGGACACAGCTCAGAAAAAGGAGCCTGAAGATGGGAGACTGGTGCAGTATTTGCTTATGAACCT
 ACAAATGATGGTGGACAGTGGGATATGCTTGCCAAATGTTGAAAAATACGGTGTGTTCTAAGAAAT
 GCTTTCCGAATCGCATACGACAGAGGCTACCAGAAGAATGAATGATATTCTGAATCACAAGATGAGAGA
 ATTCTGTATACGGCTTCGGAACCTGGTACACAGTGGAGCCACCAAGGGGAGATCTCATCTACACAAGAT
 GCCATGATGGAGGAGATATTCAGAGTGGTGTGCATCTGTTTGGGCAACCCACCAGAGACCTTCACCTGGG
 AGTACCGAGACAAAGATAAAAAATTACCACAAGATTGGCCCCATAACACCTTGCAGTTTTACAAGGAGCA
 CGTGAAGCCGCTCTTCAATATGGAAGATAAGATTTGTTTTGTGAATGACCCACGGCCCCAGCACAAGTAC
 AATAAATTGTACACAGTACTACTTGGACAATATGGTTGGAGGGGAGAAAAACGCTGTATAACAACCAGC
 CCATTGACTTCTTAAAAAGATGGTTGCTGCCTCCATCAAAGATGGAGAGGCTGTGTGGTTTGGCTGTGA
 TGTTGGAAAACTTCAATGGCAAGCTGGGCTCAGTACATGAATGTCTATGACCATGAGTTAGTGTTC
 GGTGTCTCCTTGAAGAACATGAATAAAGCTGAGAGGTTGGCCTTTGGTGAATGGAGAGTAGAGAATTC
 TGACCTTCACTGCTGTCTCAGAGAAGGATAATCAGGAAGGTAATTTGTGAAATGGAGAGTAGAGAATTC
 ATGGGGTGAAGACCACGGCCACAAGGCTACCTGTGCATGACCGATGAGTGGTTCTCGGAGTACGTCTAC
 GAGGTGGTGGTGGACAAGAAGCATGTCCAGAAGAGGTGCTGGCTGTGTTAGAGCAGGAGCCATTGTCC
 TGCCGGCATGGGACCCATGGGGCTTTGGCTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207269 representing NM_178645
 Red=Cloning site Green=Tags(s)

MNNAGLNSEKVSALIQKLNSDPQFVLAQNVGTTDLDLCLRRATVQGAQHVFQHVVPQEGKPVTNQKSS
 GRCWIFSLNVMRLPFMKKFNIEEFESQSYLFFWDKVERCYFFLNAFVDTAQKKEPEDGRLVQYLLMNP
 TNDGGQWMLANIVEKYGVVPPKCFPESHTTEATRRMNDILNHKMREFCIRLRNLVHSGATKGEISSTQD
 AMMEEIFRVVVICLGNPPETFTWEYRDKDKNYHKIGPITPLQFYKEHVKPLFNMEDKICFVNDPRPQHKY
 NKLYTVDYLSNMVGGRTLYNNQPIDFLKMKVAASIKDGEAVWFGCDVGHFNGKLGSDMNVDHELVF
 GVSLKNMKAERLAFGESLMTHAMTFTAVSEKDNQEGTFVKWRVENSWGEDHGHKGYLCMTDEWFSEYVY
 EVVVDKKHVPEEVLAVLEQEPIVLPWADPMGALAE

TRTRPLE - GFP Tag - V

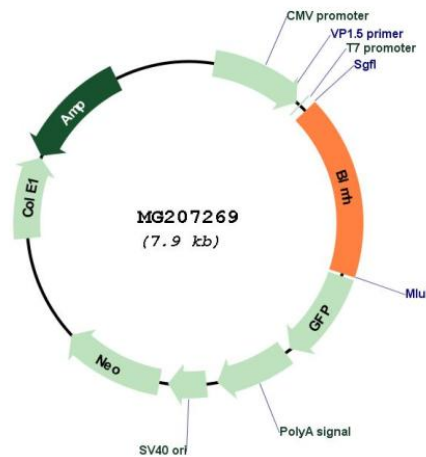
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_178645

ORF Size: 1365 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_178645.1</u> , <u>NP_848760.1</u>
RefSeq Size:	2241 bp
RefSeq ORF:	1368 bp
Locus ID:	104184
UniProt ID:	<u>Q8R016</u>
Cytogenetics:	11 B5
Gene Summary:	The encoded protein is a cytoplasmic cysteine peptidase involved in inactivation of bleomycin, a glycopeptide which is a component of combination chemotherapy regimens for cancer. This encoded enzyme is highly conserved, and it contains the signature active site residues of cysteine protease papain superfamily enzymes. It is postulated that this enzyme has protective effects against bleomycin-induced pulmonary fibrosis and bleomycin tumor resistance. [provided by RefSeq, Jan 2010]