

## Product datasheet for **MR207269**

### **Blmh (NM\_178645) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Blmh (NM_178645) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                 |
| Symbol:                   | Blmh                                    |
| Synonyms:                 | AI035728; Bh; Bmh                       |
| Mammalian Cell Selection: | Neomycin                                |
| Vector:                   | pCMV6-Entry (PS100001)                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                    |



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**ORF Nucleotide Sequence:**

>MR207269 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAACAACGCAGGACTAAATTCGAGAAGGTATCTGCTTTGATCCAGAACTAAATTCGACCCTCAGT  
 TCGTACTTGCCCAGAATGTCGGGACCACCACGATCTGCTGGACATATGTCTGAGGAGGGCCACGGTCCA  
 GGGTGCTCAGCATGTGTTTCAACACGTTGTGCCTCAGGAAGGCAAGCCAGTCACCAACCAGAAGAGCTCT  
 GGACGATGCTGGATCTTTTCTTGTGTTGAATGTTATGAGACTTCCATTCATGAAAAATTTAACATTGAAG  
 AATTTGAGTTTAGTCAATCTTACCTGTTTTTTGGGACAAGGTTGAACGCTGTTATTTCTTCTTGAATGC  
 TTTTGTGGACACAGCTCAGAAAAAGGAGCCTGAAGATGGGAGACTGGTGCAGTATTTGCTTATGAACCT  
 ACAAATGATGGTGGACAGTGGGATATGCTTGCCAATATTGTTGAAAAATACGGTGTGTTCTAAGAAAT  
 GCTTTCCGAATCGCATACGACAGAGGCTACCAGAAGAATGAATGATATTCTGAATCACAAGATGAGAGA  
 ATTCTGTATACGGCTTCGGAACCTGGTACACAGTGGAGCCACCAAGGGGAGATCTCATCTACACAAGAT  
 GCCATGATGGAGGAGATATTCAGAGTGGTGTGCATCTGTTTGGGCAACCCACCAGAGACCTTCACCTGGG  
 AGTACCGAGACAAAGATAAAAAATTACCACAAGATTGGCCCCATAACACCTTGCAGTTTTACAAGGAGCA  
 CGTGAAGCCGCTCTTCAATATGGAAGATAAGATTTGTTTTGTGAATGACCCACGGCCCCAGCACAAGTAC  
 AATAAATTGTACACAGTAGACTACTTGAGCAATATGGTTGGAGGGAGAAAAACGCTGTATAACAACCAGC  
 CCATTGACTTCTTAAAAAGATGGTTGCTGCCTCCATCAAAGATGGAGAGGCTGTGTGGTTTGGCTGTGA  
 TGTTGGAAAACTTCAATGGCAAGCTGGGCTCAGTGACATGAATGTCTATGACCATGAGTTAGTGTTCC  
 GGTGTCTCCTTGAAGAACATGAATAAGCTGAGAGGTTGGCCTTTGGTGTGAGTCACTCATGACCCACGCCA  
 TGACCTTCACTGCTGTCTCAGAGAAGGATAATCAGGAAGTACTTTTGTGAAATGGAGAGTAGAGATTCC  
 ATGGGGTGAAGACCACGGCCACAAGGCTACCTGTGCATGACCGATGAGTGGTTCTCGGAGTACGTCTAC  
 GAGGTGGTGGTGGACAAGAAGCATGTCCAGAAGAGGTGCTGGCTGTGTTAGAGCAGGAGCCATTGTCC  
 TGCCGGCATGGGACCCATGGGGCTTTGGCTGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207269 protein sequence  
 Red=Cloning site Green=Tags(s)

MNNAGLNSEKVSALIQKLNSDPQFVLAQNVGTTDLDLCLRRATVQGAQHVFQHVVPQEGKPVTNQKSS  
 GRCWIFSCLNVMRLPFMKKFNIEEFESQSYLFFWDKVERCYFFLNAFVDTAQKKEPEDGRLVQYLLMNP  
 TNDGGQWDMLANIVEKYGVVPPKCFPESHTTEATRRMNDILNHKMREFCIRLRNLVHSGATKGEISSTQD  
 AMMEEIFRVVICLGNPPETFTWEYRDKDKNYHKIGPITPLQFYKEHVKPLFNMEDKICFVNDPRPQHXY  
 NKLYTVDYLSNMVGGKRLTYNNQPIDFLKKMVAASIKDGEAVWFGCDVGKHFNGKLGLSDMNVYDHELVF  
 GVSLKNMKAERLAFGESLMTHAMTFTAVSEKDNQEGTFVKWRVENSWGEDHGHKGYLCMTDEWFSEYVY  
 EVVVDKKHVPEEVLAVLEQEPIVLPWDPMGALAE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_178645

**ORF Size:** 1368 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\\_178645.1](#), [NM\\_178645.2](#), [NM\\_178645.3](#), [NM\\_178645.4](#), [NP\\_848760.1](#)

**RefSeq Size:** 2355 bp

**RefSeq ORF:** 1368 bp

**Locus ID:** 104184

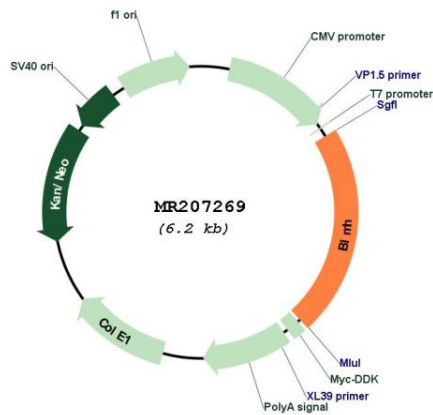
**UniProt ID:** [Q8R016](#)

**Cytogenetics:** 11 B5

**MW:** 52.5 kDa

**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]

**Product images:**



Circular map for MR207269