

Product datasheet for **RG200393**

BLMH (NM_000386) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BLMH (NM_000386) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BLMH
Synonyms:	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:

>RG200393 representing NM_000386
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGCAGCTCGGGACTGAATTCGAGAAGGTAGCTGCTCTGATACAGAACTGAATTCGACCCCCAGT
 TCGTACTTGCCAGAATGTCGGGACCACCACGACCTGCTGGACATCTGTCTGAAGCGGGCCACGGTGCA
 GCGCGCGCAGCATGTGTTCCAGCACGCCGTGCCCCAGGAGGGCAAGCCAATCACCACCAGAAGAGCTCA
 GGGCGATGCTGGATCTTTTCTGTCTGAATGTTATGAGGCTTCCATTCATGAAAAAGTTAAATATTGAAG
 AATTTGAGTTTAGCCAATCTTACCTGTTTTTTGGGACAAGTTGAACGCTGTTATTTCTTCTGAGTGC
 TTTTGTGGACACAGCCCAGAGAAAGGAGCCTGAGGATGGGAGGCTGGTGCAGTTTTTGTATGAACCT
 GCAATGATGGTGGCCAATGGGATATGCTTGTAAATATTGTTGAAAAATATGGTGTATCCCTAAGAAAT
 GCTTCCCTGAATCTTATACAACAGAGGCAACCAGAAGGATGAATGATATTCTGAATCACAAGATGAGAGA
 ATTCTGTATACGACTGCGGAACCTGGTACACAGTGGAGCAACCAAGGAGAAATCTCGGCCACACAGGAC
 GCATGATGGAGGAGATATCCGAGTGGTGTGCATCTGTTGGGTAAATCCACCAGAGACATTCACCTGGG
 AATATCGAGACAAAGATAAAAAATTATCAGAAAAATTGGCCCCATAACACCTTGGAGTTTTACAGGGAACA
 TGTCAAGCCACTCTCAATATGGAAGATAAGATTTGTTTGTAGTGAATGACCTAGGCCCCAGCACAAGTAC
 AACAACTTTACACAGTGAATACTTAAGCAATATGGTTGGAGGGGAGAAAACTCTATACAACAACCAGC
 CCATTGACTTCTGAAAAAGATGGTTGCTGCCTCCATCAAAGATGGAGAGGCTGTGTGGTTTGGCTGTGA
 TGTTGGAAACACTTCAATAGCAAGCTGGGCTCAGTACATGAATCTCTATGACCATGAGTTAGTGT
 GGTGTCTCCTTGAAGAACATGAATAAAGCGGAGAGGCTGACTTTTGGTGAAGTCACTTATGACCCACGCCA
 TGACCTTCACTGCTGTCTCAGAGAAGGATGATCAGGATGGTGTCTTACAAAAATGGAGAGTGGAGAATTC
 ATGGGGTGAAGACCATGGCCACAAGGTTACCTGTGCATGACAGATGAGTGGTCTCTGAGTATGTCTAC
 GAAGTGGTGGTGGACAGGAAGCATGTCCCTGAAGAGGTGCTAGCTGTGTTAGAGCAGGAACCCATTATCC
 TGCCAGCATGGGACCCCATGGGAGCTTTGGCTGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG200393 representing NM_000386
 Red=Cloning site Green=Tags(s)

MSSSGLNSEKVAALIQKLNSDPQFVLAQNVGTTDLDLICKRATVQRAQHVFQHAVPQEGKPITNQKSS
 GRCWIFSLNVMRLPFMKKLNIEEFESQSYLFFWDKVERCYFFLSAFVDTAQRKEPEDGRLVQFLLMNP
 ANDGGQWDMLVNIVEKYGVIPKKCFPESYTTTEATRRMNDILNHKMREFCIRLRNLVHSGATKGEISATQD
 VMMEEIFRVVICLGNPPETFTWEYRDKDKNYQKIGPITPLEFYREHVKPLFNMEDKICLVNDPRPQHKY
 NKLYTVEYL SNMVGGRKTL YNNQPIDFLKMKVAASIKDGEAVWF GCDVGHFNSKLG LSDMNL YDHEL VF
 GVSLKMNKAERLTFGESLMTHAMTFTAVSEKDDQDGAF TKWRVENS WGEDHGHKGYL CMTDEWF SEYVY
 EVVDRKHVPEEV LAVLEQEPIILPAWDPMGALAE

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_000386

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:

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_000386.4](#)

RefSeq Size: 2417 bp

RefSeq ORF: 1368 bp

Locus ID: 642

UniProt ID: [Q13867](#)

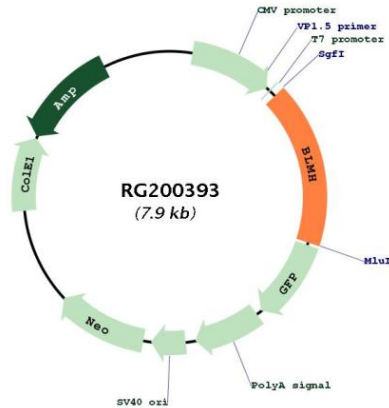
Cytogenetics: 17q11.2

Domains: Pept_C1-like

Protein Families: Druggable Genome, Protease

Gene Summary: Bleomycin hydrolase (BMH) is a cytoplasmic cysteine peptidase that is highly conserved through evolution; however, the only known activity of the enzyme is metabolic inactivation of the glycopeptide bleomycin (BLM), an essential component of combination chemotherapy regimens for cancer. The protein contains the signature active site residues of the cysteine protease papain superfamily. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200393