

## Product datasheet for MR229394

### Ghitm (NM\_001199122) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ghitm (NM_001199122) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ghitm
Synonyms:	1010001P14Rik; C77840; MICS1; PTD010; Tmbim5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229394 representing NM_001199122 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTGGCTGCAAGGCTTGTGTCTCCGGACACTACCTCCAGGGTTTTCCAGCCCACTTTCATCACCA  
AGGCTCTCCACTTGTGAAGAATCCATCACAAGAACCAATGGCTCGTAACACCCAGCAGGAATATGC  
TACCAAGACAAGAATTAGGACTCACCGTGGGAAAAGTGGACAAGAAGTAAAGAGGCAGCCTTGAACCA  
TCAATGGAAAAATCTTTAAAATCGATCAAATGGGAAGGTGGTTTGTGCTGGAGGAGCAGCTGTTGGTC  
TTGGAGCGCTCTGCTACTATGGCTTGGGAATGTCTAATGAGATTGGAGCTATCGAAAAGGCTGTAATTTG  
GCCTCAGTATGTAAGGATAGAATTCATTCTACTTACATGACTTAGCAGGAAGTATTGGTTAACAGCT  
TTGCTGCCTTGGCAGTAGCCAGAACACCTGCTCTCATGAACTTCATGATGACAGGCTCTTGGGTGACAA  
TTGGTGCAACCTTTCAGCCATGATTGGAGCTGGAATGCTTGTACTCAATATCATATGAGCAGAGCCC  
AGGCCAAAGCATCTGGCTTGGATGCTGCATTCTGGTGTGATGGGTGCAGTTGTGGCTCCTCTGACGATC  
TTAGGGGGCCCTCTCTCCTGAGAGCCGCATGGTACACCGCTGGTATTGTGGGAGGCCTCTACTGTGG  
CCATGTGTGCACCTAGTGAGAAGTTTCTGAACATGGGAGCACCCCTGGGAGTGGGCTGGGTCTTGTCTT  
TGCGTCTTCTCTGGGTCTATGTTTCTCCCTACCTCTGTGGCTGGTCCACTCTGTACTCAGTGGCA  
ATGTATGGTGGATTAGTTCTTTTAGCATGTTCTTCTGTATGATACTCAGAAAGTAATCAAACGTGCAG  
AAATAACACCCATGTATGGAGCTCAAAAGTATGATCCCATCAATTCGATGTTGACAACTACATGGATAC  
ATTAATATATTTATGCGAGTTGCAACTATGCTAGCAACTGGAAGCAACAGAAAGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229394 representing NM\_001199122  
Red=Cloning site Green=Tags(s)

MLAARLVCLRTLPSRVFQPTFFITKASPLVKNSITKNQWLVTPSREYATKTRIRTHRGKTGQELKEAALEP  
 SMEKIFKIDQMGRWFVAGGAAVGLGALCYGLGMSNEIGAIEKAVIWPQYVKDRIHSTYMYLAGSIGLTA  
 LSALAVARTPALMNFMMTGSWVTIGATFAAMIGAGMLVHSISYEQSPGPKHLAWMLHSGVMGAVVAPLTI  
 LGGPLLLRAAWYTAGIVGGLSTVAMCAPSEKFLNMGAPLGVGLGLVFASSLGSMLPPTS SVAGATLYSVA  
 MYGGLVLF SMFLLYDTQKVIKRAEITPMYGAQKYDPINSMLTIYMDTLNIFMRVATMLATGSNRKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001199122

**ORF Size:** 1038 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\\_001199122.1](#), [NP\\_001186051.1](#)

**RefSeq Size:** 2953 bp

**RefSeq ORF:** 1041 bp

**Locus ID:** 66092

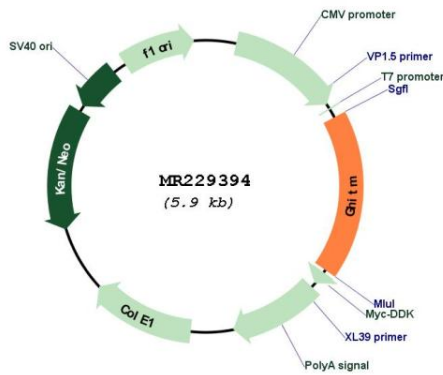
**UniProt ID:** [Q91VC9](#)

**Cytogenetics:** 14 21.29 cM

**MW:** 37.3 kDa

**Gene Summary:** Required for the mitochondrial tubular network and cristae organization. Involved in apoptotic release of cytochrome c (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR229394