

## Product datasheet for **RR206200**

### Ghitm (NM\_001005908) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ghitm (NM\_001005908) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ghitm  
**Synonyms:** MICS1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR206200 representing NM\_001005908  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTTGGCTGCAAGGCTTGTGTGCTCCGGACACTACCTCCAGGGTTTTCCAGCCCACTTTCATACCA  
AGGCTCTCCACTTGTGAAGAATCCATCACAAGAACCAATGGCTTTAACACCCAGCAGGAATATGC  
TACCAAGACAAGAATTAGGACTCACCGTGGGAAAAGTGGCAAGAAGTGAAGAGGCAGCCTTGGAGCCA  
TACTGGAAAAAGTCTTTAAAATTGACCAGATGGGAAAGTGGTTTGTGCGGGAGGAGCAGCTGTTGGTC  
TTGGAGCGCTGTGCTACTACGGCTTGGGAATGTCTAATGAGATTGGAGCTATCGAGAAGGCTGTAATCTG  
GCCTCAGTATGTAAAGGATAGAATTCATTCTACTTACATGTACTTAGCAGGAAGTATTGGTTAACAGCG  
TTGTCTGCCCTGGCATTAGCCAGATCACCTGCCCTCATGAACTTCATGATGACAGGCTCTGGATGACAA  
TTGGTGAACCTTCGCAGCCATGATTGGAGCTGGAATGCTGGTCCAGTCAATATCGTATGAGCAGAGCCC  
AGGCCAAAGCATCTGGCCTGGATGCTGCATTCTGGTGTGATGGGTGCAGTCGTGGCTCCTCTGACAATC  
TTAGGGGGCCTCTTCTCCTGAGAGCTGCATGGTACACCGCCGGTATTGTGGGAGGCCTCTACTGTGG  
CCATGTGTGCACCTAGTGAGAAGTTTCTGAACATGGGAGCACCCCTGGGAGTGGGCTGGGTCTTGTCTT  
TGCATCTTCACTGGGTCTATGTTCCCTCCCCCTACCTCTGTGGCTGGTCCACTGTACTCAGTGGCA  
ATGTATGGTGGATTAGTTCTTTTTCAGCATGTTCTTCTGTATGATACTCAGAAAGTAGTCAAACGTGCAG  
AAATAACACCCGCTACGGAGCTCAGAAGTATGATCCCATCAATTCGATGCTAACGATCTACATGGATAC  
ATTAATATATTTATGCGAGTTGCAACTATGCTAGCAACTGGAAGCAACAGAAAGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR206200 representing NM\_001005908  
 Red=Cloning site Green=Tags(s)

MLAARLVCLRTLPSRVFQPTFFITKASPLVKNSITKNQWLLTPSREYATKTRIRTHRGKTGQELKEAALEP  
 SLEKVFKIDQMGKWFVAGGAAVGLGALCYGLGMSNEIGAIEKAVIWPQYVKDRIHSTYMYLAGSIGLTA  
 LSALALARSPALMNFMMTGSWMTIGATFAAMIGAGMLVQSI SYEQSPGPKHLAWMLHSGVMGAVVAPLTI  
 LGGPLLLRAAWYTAGIVGGLSTVAMCAPSEKFLNMGAPLGVGLGLVFASSLGSFLLPPTS SVAGATLYSVA  
 MYGGLVLF SMFLLYDTQKVVKRAEITPAYGAQKYDPINSMLTIYMDTLNIFMRVATMLATGSNRKK

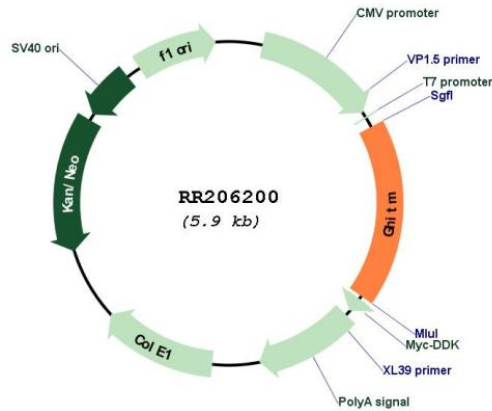
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001005908

ORF Size: 1038 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001005908.1</a> , <a href="#">NP_001005908.1</a>
<b>RefSeq Size:</b>	1397 bp
<b>RefSeq ORF:</b>	1041 bp
<b>Locus ID:</b>	290596
<b>UniProt ID:</b>	<a href="#">Q5XIA8</a>
<b>Cytogenetics:</b>	16p14
<b>MW:</b>	37.2 kDa
<b>Gene Summary:</b>	Required for the mitochondrial tubular network and cristae organization. Involved in apoptotic release of cytochrome c (By similarity).[UniProtKB/Swiss-Prot Function]