

## Product datasheet for **MC208547**

### Gh (NM\_008117) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gh (NM_008117) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gh
Synonyms:	Gh1; Ghb1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208547 representing NM_008117 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTACAGACTCTCGGACCTCCTGGCTCCTGACCGTCAGCCTGCTCTGCCTGCTCTGGCCTCAGGAGG  
CTAGTGTCTTTCCCGCCATGCCCTTGCCAGTCTGTTTCTAATGCTGTGCTCCGAGCCCAGCACCTGCA  
CCAGCTGGCTGTGACACCTACAAAGAGTTCGAGCGTGCCTACATTCCCGAGGGACAGCGCTATTCCATT  
CAGAATGCCAGGCTGCTTCTGCTTCTCAGAGACCATCCGGCCCCACAGGCAAGGAGGAGGCCCAGC  
AGAGAACCACATGGAATTGCTTCGCTTCTCGCTGCTGCTCATCCAGTCATGGCTGGGGCCCGTGCAGTT  
CCTCAGCAGGATTTTACCAACAGCCTGATGTTTCGGCACCTCGGACCGTGTCTATGAGAACTGAAGGAC  
CTGGAAGAGGGCATCCAGGCTCTGATGCAGGAGCTGGAAGATGGCAGCCCCCGTGTGGGAGATCCTCA  
AGCAAACCTATGACAAGTTTGACGCCAACATGCGCAGCGACGACGCGTCTCAAAAATATGGGCTGCT  
CTCCTGCTTCAAGAAGGACCTGCACAAAGCGGAGACCTACCTGCGGGTCATGAAGTGTCCCGCTTTGTG  
GAAAGCAGCTGTGCCTTCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms:	<a href="https://cdn.origene.com/chromatograms/ja2045_a06.zip">https://cdn.origene.com/chromatograms/ja2045_a06.zip</a>
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_008117
Insert Size:	651 bp



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**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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:** [BC061157](#), [AAH61157](#)

**RefSeq Size:** 903 bp

**RefSeq ORF:** 651 bp

**Locus ID:** 14599

**UniProt ID:** [P06880](#)

**Cytogenetics:** 11 68.89 cM

**Gene Summary:** Plays an important role in growth control. Its major role in stimulating body growth is to stimulate the liver and other tissues to secrete IGF-1. It stimulates both the differentiation and proliferation of myoblasts. It also stimulates amino acid uptake and protein synthesis in muscle and other tissues.[UniProtKB/Swiss-Prot Function]