

## Product datasheet for **RR208017**

### Gh1 (NM\_001034848) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gh1 (NM\_001034848) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Gh1  
**Synonyms:** Gh; Ghb1; RNGHGP  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR208017 representing NM\_001034848  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCAGACTCTCAGACTCCCTGGCTCCTGACCTTCAGCCTGCTCTGCCTGCTGTGGCCTCAAGAGG  
CTGGTGCTTCCCTGCCATGCCCTTGCCAGTCTGTTTGCCAATGCTGTGCTCCGAGCCCAGCACCTGCA  
CCAGCTGGCTGTGACACCTACAAGAGTTCGAGCGTGCCTACATTCCCGAGGGACAGCGCTATTCCATT  
CAGAATGCCAGGCTGCGTTCTGCTTCTCAGAGACCATCCAGCCCCACCGGCAAGGAGGAGGCCAGC  
AGAGAAGTGCATGGAATTGCTTCGCTTCTCGCTGCTGCTCATCCAGTCATGGCTGGGGCCCGTGCAGTT  
TCTCAGCAGGATCTTTACCAACAGCCTGATGTTTGGTACCTCGGACCGCGTCTATGAGAACTGAAGGAC  
CTGGAAGAGGGCATCCAGGCTCTGATGCAGGAGCTGGAAGACGGCAGCCCCCGTATTGGGCAGATCCTCA  
AGCAAACCTATGACAAGTTTGACGCCAACATGCGCAGCGATGACGCTCTGCTCAAAAATATGGGCTGCT  
CTCCTGCTTCAAGAAGGACCTGCACAAGGCAGAGACCTACCTGCGGGTCATGAAGTGTGCCCGCTTTGCC  
GAAAGCAGCTGTGCTTTC

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR208017 representing NM\_001034848  
 Red=Cloning site Green=Tags(s)

MAADSQTPWLLTFSLLCLLWPQEAGAFPAMPLSSLFANAVLRAQHLHQLAADTYKEFERAYIPEGQRYSI  
 QNAQA AFCSETIPAPTGKEEAQQRDMELLRFLLLLIQSWLGPVQFLSRIFTNSLMFGTSDRVYEKLD  
 LEEGIQALMQELEDGSPRIGQILKQTYDKFDANMRSDDALLKNYGLLSCFKKDLHKAETYLRVMKCRRFA  
 ESSCAF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

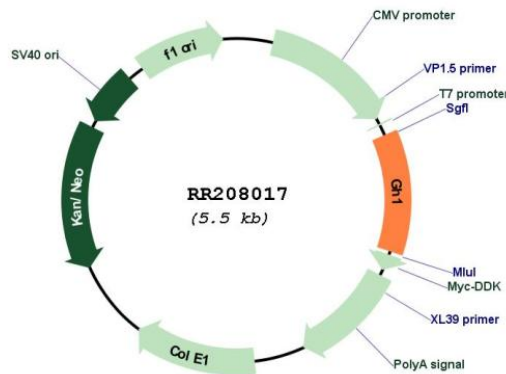
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**Plasmid Map:**



**ACCN:** NM\_001034848

**ORF Size:** 648 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_001034848.2</a> , <a href="#">NP_001030020.2</a>
<b>RefSeq Size:</b>	826 bp
<b>RefSeq ORF:</b>	651 bp
<b>Locus ID:</b>	24391
<b>UniProt ID:</b>	<a href="#">P01244</a>
<b>Cytogenetics:</b>	10q32.1
<b>MW:</b>	24.7 kDa
<b>Gene Summary:</b>	ligand for growth hormone receptor; plays a role in a number of signaling pathways [RGD, Feb 2006]