

## Product datasheet for **MG204547**

### Ggh (NM\_010281) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ggh (NM_010281) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ggh
Synonyms:	gamma-GH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204547 representing NM_010281 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGAACCTGGGCTACCTGCTGTGCTTGTGGGTTTGCTACTATGCGGGCTTCAAGTCCCGGGATGT  
CCAGACCCTACAACCATGGCTCCGAGAGGCCCATCATCGGAGTAGTAATGCAAGAATGTTTTGGGAAAAT  
GGCGAAGTTGGGAACTACTACATTGCTGCATCCTATGTGAAGTATATAGAGTCTGCAGGTGCACGAGTT  
GTGCCATAAGGCCTGATCTTAGTGATGCAGAGTATGAAGAACTTTTAGATCTATTAATGGAGTCTCC  
TTCTGGAGGAGGTGCTAACCTAACAGATTCAGGTTATCCCGAGTGGCCAAAATATTTTCAGCAAGGC  
TCTAGAGAGCTTTGATAATGGAGGCCATTTTCTGTGTGGGAACATGCCTTGGATTTGAGGAGCTTCT  
GTCTGGTTAGTGAGAGAACTTACTAACGAGTACAGACACTAAGTCAAAGAAAATGCCCCTTGAACCTCA  
CTGAAGGTGCAAGGAAGAGCAGAATGTTCAAACATTTTCTACTGAGTATTGGATTCAATTAGCACTAGA  
AAATCTGACCCGAAATTTTCAAAATGGAGCCTCTCTGTGAAGAAATTTACAGAAAATGAAAAGTTAAAG  
AAGTTTTCAATATATTAACAACCAATACAGATGGCAAACCTGAGTTCATTTTCATCCATGGAAGGATTTA  
AGTATCCAGTGTATGCTGTCCAGTGGCATCCTGAGAAAGCACCATTTGAGTGAAGAATCTGGCGGCAT  
TTCTCATGCACCAATGCTGTGAAGACTTATTCTACTTAGCAGAATTTTAGTTTCTGAAGCTCGGAAG  
AACAGTACCACCTTTGAGAACGTGGTTAAGGAGACGGCATCCTTGATTTACAAGGTCTATCCCATTTATA  
CTGGAAATATTTCTTCATTTAGCAAGCTTATATGTTTGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204547 representing NM\_010281  
 Red=Cloning site Green=Tags(s)

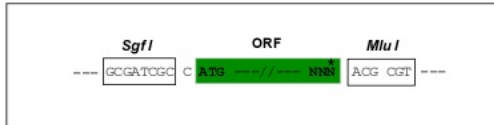
MANLGYLLCLLGLLLCGLSSPGMSRPYNHGSRPIIGVVMQECFGKMAKLGNYIIAASYVKYIESAGARV  
 VPIRPDLSDAEYEELFRSINGVLLPGGGANLTDGYSRVAKIFFSKALESFDNGGHFPVWGTCCLGFEELS  
 VLVSNGENLLTSTDTKSKKLPLNFTEGARKSRMFKHFPELLEDSLALLENLTANFHKWLSVKNFTENEKLL  
 KFFNILTTNTDGKTEFISSMEGFKYPVYAVQWHPEKAPFEWKNLGGISHAPNAVKTSFYLAEFVSEARK  
 NSHHFENVVKETASLIYKYPIYTGNISSFQAYMFD

TRTRPLE - GFP Tag - V

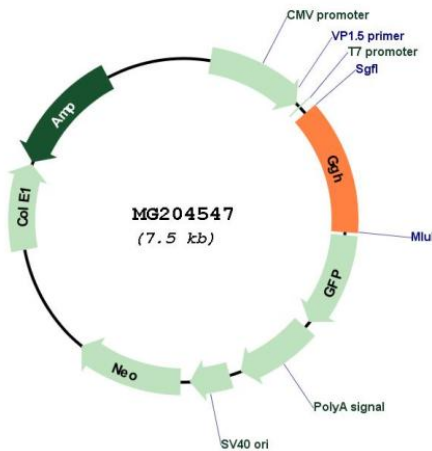
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_010281

**ORF Size:** 951 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_010281.2</a> , <a href="#">NP_034411.2</a>
<b>RefSeq Size:</b>	1340 bp
<b>RefSeq ORF:</b>	954 bp
<b>Locus ID:</b>	14590
<b>UniProt ID:</b>	<a href="#">Q9Z0L8</a>
<b>Cytogenetics:</b>	4 A3
<b>Gene Summary:</b>	Hydrolyzes the polyglutamate sidechains of pteroylpolyglutamates. Progressively removes gamma-glutamyl residues from pteroylpoly-gamma-glutamate to yield pteroyl-alpha-glutamate (folic acid) and free glutamate. May play an important role in the bioavailability of dietary pteroylpolyglutamates and in the metabolism of pteroylpolyglutamates and antifolates. Acts as endopeptidase. Lysosomal enzyme is activated by sulfhydryl compounds. [UniProtKB/Swiss-Prot Function]