

## Product datasheet for **MG202967**

### Gch1 (NM\_008102) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gch1 (NM_008102) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gch1
Synonyms:	Gch; GTP-CH; GTPCH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202967 representing NM_008102 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGAAGCCGCGGGGAGTCAGGTGCACCAATGGGTTCTCCGAGCGGGAGCTGCCGCGGCCCGGGGCCA  
GCCCGCTGCCGAGAAGTCCCGCCGCCGAGGCCAAGGGCGCACAGCCGCGGACGCCTGGAAGGCAGG  
GCGGCACCGCAGCGAGGAGGAAAACCAGGTGAACCTCCCCAACTGGCGGCTGCTTACTCGTCCATTCTG  
CTCTCGCTGGGCGAGGACCCCCAGCGGCAGGGGCTGCTCAAGACGCCCTGGAGGGCGCCACCGCCATGC  
AGTACTTCACCAAGGGATACCAGGAGACCATCTCAGATGTCCTGAATGATGCTATATTTGATGAAGATCA  
TGACGAGATGGTATTGTGAAGGACATAGATATGTTCTCCATGTGTGAGCATCACCTTGTTCCATTTGTA  
GGAAGGTCCATATTGGCTATCTTCTAACAAGCAAGTCCTTGGTCTCAGTAAACTTGCCAGGATTGTAG  
AAATCTACAGTAGACGACTACAAGTTCAAGAGCGCCTCACCAAACAGATTGCGGTGGCCATCACAGAAGC  
CTTGACGCTGCTGGCGTTGGAGTAGTATTGAAGCGACACATGTGCATGGTAAATGCGAGGCGTGCA  
AAAATGAACAGCAAGACTGTCACTAGCACCATGCTGGCGGTGTTCCGGGAAGACCCCAAGACTCGGGAGG  
AGTTCTCACACTAATCAGGAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202967 representing NM\_008102  
Red=Cloning site Green=Tags(s)

MEKPRGVRCTNGFSERELPRPGASPPAEKSRPPEAKGAQPADAWKAGRHRSEENQVNLPLKAAAYSSIL  
 LSLGEDPQRQGLLKTPWRAATAMQYFTKGYQETISDVLNDIAIFDEDHDEMVIKIDIDMF5MCEHHLVPFV  
 GRVHIGYLPNKQVLGLSKLARIVEIYSRRLQVQERLTKQIAVAITEALQPAGVGVVIEATHMCMVMRGVQ  
 KMNSKTVTSTMLGVFREDPKTREEFLTLIRS

TRTRPLE - GFP Tag - V

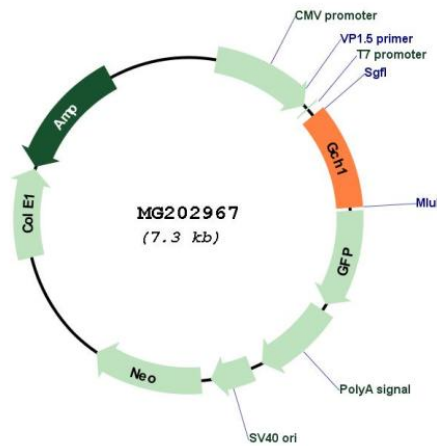
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_008102

**ORF Size:** 723 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_008102.2</a>
<b>RefSeq Size:</b>	2764 bp
<b>RefSeq ORF:</b>	726 bp
<b>Locus ID:</b>	14528
<b>UniProt ID:</b>	<a href="#">Q05915</a>
<b>Cytogenetics:</b>	14 24.6 cM
<b>Gene Summary:</b>	May positively regulate nitric oxide synthesis in endothelial cells. May be involved in dopamine synthesis. May modify pain sensitivity and persistence.[UniProtKB/Swiss-Prot Function]