

Product datasheet for MR202967

Gch1 (NM_008102) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Gch1 (NM_008102) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Gch1

Synonyms: Gch; GTP-CH; GTPCH

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>MR202967 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

AGTTCCTCACACTAATCAGGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202967 protein sequence

Red=Cloning site Green=Tags(s)

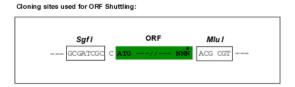
MEKPRGVRCTNGFSERELPRPGASPPAEKSRPPEAKGAQPADAWKAGRHRSEEENQVNLPKLAAAYSSIL LSLGEDPQRQGLLKTPWRAATAMQYFTKGYQETISDVLNDAIFDEDHDEMVIVKDIDMFSMCEHHLVPFV GRVHIGYLPNKQVLGLSKLARIVEIYSRRLQVQERLTKQIAVAITEALQPAGVGVVIEATHMCMVMRGVQ KMNSKTVTSTMLGVFREDPKTREEFLTLIRS

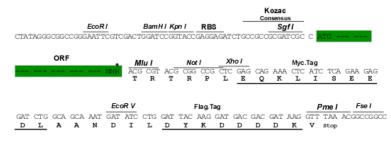
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_008102

ORF Size: 726 bp

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 customercom 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

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.



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: <u>NM 008102.2</u>

 RefSeq Size:
 2764 bp

 RefSeq ORF:
 726 bp

 Locus ID:
 14528

 UniProt ID:
 Q05915

 Cytogenetics:
 14 24.6 cM

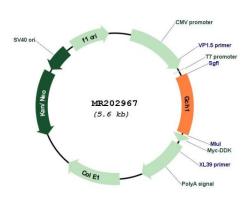
 MW:
 27 kDa

Gene Summary: 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]

Product images:



Circular map for MR202967