

Product datasheet for **MC200761**

Gch1 (NM_008102) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gch1 (NM_008102) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gch1
Synonyms:	Gch; GTP-CH; GTPCH
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC005643 sequence for NM_008102
 GCCCTAGACTCCGAGAGTGTCCCTAGGTGCTGAGCCCCAGTCCGGGTGACGGCCACAGGTTACGGCCGCC
 GGCTAAGCTGAGCCGCAGCGCTTGTAGCACCTAGGGTGTCTCGGGAGCGGTGCGCGCCGGTCCATGGA
 GAAGCCGCGGGGAGTCAGGTGCACCAATGGGTTCTCCGAGCGGGAGTCCCGCGGCCCGGGCCAGCCCG
 CCTGCCGAGAAGTCCCGGCCCGCAGGGCAAGGGCGCACAGCCGGCCGACGCTGGAAGGCAGGGCGGC
 ACCGCAGCGAGGAGGAAAACAGGTGAACCTCCCCAACTGGCGGCTGCTTACTCGTCCATTCTGCTCTC
 GCTGGGCGAGGACCCCGAGCGGAGGGGTGCTCAAGACGCCCTGGAGGGCGGCCACCGCCATGCAGTAC
 TTCACCAAGGGATACCAGGAGACCATCTCAGATGCCTGAATGATGCTATATTTGATGAAGATCATGACG
 AGATGGTGATTGTGAAGGACATAGATATGTTCTCCATGTGTGAGCATCACCTTGTTCATTTGTAGGAAG
 GGTCCATATTGGCTATCTTCTAACAAGCAAGTCTTGGTCTCAGTAACTTGCCAGGATTGTAGAAATC
 TACAGTAGACGACTACAAGTTCAAGAGCGCCTCACAAACAGATTGCGGTGGCCATCACAGAAGCCTTGC
 AGCCTGCTGGCGTTGGAGTAGTATTGAAGCGACACACATGTGCATGGTAAATGCGAGGCGTGCAGAAAAT
 GAACAGCAAGACTGTCACTAGCACCATGCTGGGCGTGTCCGGGAAGACCCCAAGACTCGGGAGGAGTTC
 CTCACACTAATCAGGAGCTGAGCTGAGCTTCCGTGCGCGAGCCCTGGTTTGCAGACCCCGCTGCTGCGGC
 TGTATCTGTCTCAGTCTACATTCAGTTTCAGTTGGTACACTTGTGAACTTTATGTCTCATCATGAAT
 TGTATTTAATAATTATTTATATAGATACGTCAAATAAAGGTGATCAACTAAGGGTGAAGTCCCGCTTCT
 TCTCGCCACCGTCTTAGTGGCAATGTTAAAGTGAAGTCCAGGAGTATAGGCTATCCACAGCGACTGCTG
 CCATTCAGAGCCCCAGGGATGCTGGGAGGAGGGGAACTCATGCATTTGGTTGACATAATCACTGACTC
 ATTAGCAGAGGGCACTGGGCATTCAAGGAGCCATGGCCACTATGCTGTTTGTGCTCCAGTGGGCATAG
 TCTAACGTTGGAGTGTGGAGATGGTGAGGGGTTGAGAGGAGCATTGCCCTCTGTGTTGAGAGGCCACAG
 ACACCACTCTGTTTTGATCATGTATGTGAAGCTACCAGGGACATTTTCTTTTATTTTAACTGTC
 CAGCTATAACACTAGTCTCTGAGAAAAGTGGTGGGATATCTGCCTTTAATTTTGTGTGAGTAAAAAG
 ACAAAAATTTTACCTTCTATATTTTGAATTTTGAAGAGGAGAATCGCTTCTGCAGTAGTTTATTTCTC
 ATGTCAGCTACGTGCATTTAGGGGTTGACTCGGTGCCTTGGTGAGAATATCACACCATTTGGAGAGCAG
 GTACTTCCGCCATCCTTTCGGACAGCCGTTACTTCTCAAGTTTAAAGTACTGACTCGGCACATGGCTGA
 TTTCTGTAAGAAGTCTTGGGAGTTTACTTTGTCTATTCCAAGGAGATGCTTCAAAGGATTTTCAAAA
 CTTGTATGAGGTATTTTGGCAATTTTCCAGGATCTTTTGAAGTCCCGCTCAGTCAGCTCTGTGGGT
 TCCCAGCTCCTCACAAGTGCAGAGAGCATAGGATGATGAGGGAGGCCAGGGAGCTGTGCCACTGCTCTG
 ACAGGCCATGCTGTGGCCATTGGTGCACAGAGGACTTCGGTCTAGTCTTTTCTGTTGGTGTGCCTT
 GTCTTCAGTACAAGTGTGTCCAGAGGTGTAGCTGTCCGAGAAGTGTGGCTACGTACCAGTTACCATGTCC
 TCCACTGGGGCAGTGAGGGCCAAATCAAATCGCAGCATTCTTGCTCCCCTGCAAAAAACACAATCATAGC
 TGTTACAATGAAGAGTCTCCCTCTGGCTGACATAGTGCTCTTTAAATGAATTCCTGTGGTCTTATCTAC
 CACTTAGACACTCAACAGCTTATGATAAGACAAGAGCTGGTTTTTAATTTTATTTTTTTTCACTTCTAC
 TTTTTCTAGCACTTTCTATATTTAGAGTCAGGTTGATTTTGGTTCCTTTGAAATCTAACCTGATAGC
 AGTGTAGCCTGCTTTGCTATTTAGACATTTCTAGGTAGAATGCTAAGTACGTAGCCTGTGCTTGGTATT
 TAAAGTTAAACAAAACAGTGTGACTTGACTTAGAGTACCAAAGAGATTGTAGCTATACCTTCACTTT
 CTGGGGGTTGGTCACTTGTATCCCTTCTGAACGACCCTGTTGGGTCATTCTCTAGAAGTGTCTTAAACA
 AATGCCTGACATCTCAGGCTGTGTTCTCATCAGCGTCTGTGTAGGGGTAGCCTCATCTGTCTCAGTCTC
 ATCTGTAGTGTTCAAAAGTGACCTTCTCACATCCATGACACCGAGCACATTTGGGAATTTTAGGAATT
 TGATGTAATTAATAATACTGTTCAATTACACTGTGGATTTACTGTATGTATATGTATGTTACTGAAGT
 TGGTTCTATTTAAATGATTAAAGTGTTTTTAATTTTGAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_008102
Insert 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 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: [BC005643](#), [AAH05643](#)

RefSeq Size: 2784 bp

RefSeq ORF: 726 bp

Locus ID: 14528

UniProt ID: [Q05915](#)

Cytogenetics: 14 24.6 cM

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]