

Product datasheet for **MC219566**

Gls2 (NM_001033264) Mouse Untagged Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Gls2 (NM_001033264) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Gls2 |
| Synonyms: | A330074B06Rik; AI195532; GA; GLS; Lga |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >MC219566 representing NM_001033264
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGCTCCATGAGGGCTCTGCAGAACGCGCTGAGCCGCGGGCAGCCACGGTCGCGGGGAGGCTGGG
 GTCATCCGAGCCGGGGCCCGTTCTGGGCAGGGCGTCCGGTACTACCTCGGTGAGGCCGACGCGAGGG
 CAGGGGGACGCCACAGCCACCAGCCGAGCACTCGGATCATGACGCCTCACACAGCGGATGCTGCCT
 CGACTTGGTGACCTGCTTTTCTACACTATTGCAGAGGGACAGGAGCGTATCCCTATCCACAAGTTACCA
 CGGCTCTGAAGGCCACTGGACTGCAGACGTGAGACCCACGGCTCCAGGACTGCATGAGCAAGATGCAGCG
 CATGGTCCAAGAGTCCAGCAGCGGTGGCCTCTGGACCGAGAGCTCTTCCAAAAGTGTGTGAGCAGCAAC
 ATTGTGCTCCTGACTCAGGCATTCGAAAGAAGTTTGTATTCTGACTTTGAGGAGTTCACGGGCCATG
 TGGATCGCATATTTGAGGATGCCAAAGAGCCACTGGAGGCAAAGTGGCAGCCTACATCCCGCACCTGGC
 CAAATCAAACCCAGACCTTTGGGGCGTCTCCCTGTGACTGTGGATGGGCAGCGGCACTCTGTGGGCCAC
 ACGAAGATCCCCTTCTGCCTGCAGTCTGTGTCAAGCCCCTCACTTACGCCATCTCCGTGAGCACCTTAG
 GCACTGACTACGTGCACAAGTTTGTGGCAAGGAACCCAGTGGTCTGCGCTATAACAAAACCTCCCTCAA
 TGAGGAAGGAATCCCCATAACCCCATGGTCAATGCTGGTGCCATTGTGGTCAGCTCCCTGATCAAGATG
 GACTGTAACAAAGCAGAGAAGTTCGATTTTGTGTACAGTATCTGAACAAGATGGCTGGGAACGAATTCA
 TGGGGTTCAGCAATGCCACATCCAGTCAGAGAAGGAGACTGGGGATCGGAATTACGCCATCGGCTATTA
 CCTCAAGGAGAAGAAGTGCTTCCCTAAGGGTGTGGACATGATGGCTGCCCTTGATCTCTATTTCCAGCTG
 TGCTCTGTGGAGGTTACCTGTGAGTCAGGCAGTGTGATGGCGGCCACTTGCCCAATGGCGGCATCTGCC
 CTATCACAGGGGAGAGCGTGTGAGCGCCGAGGCCGTGCGCAACACCCTCAGCCTCATGCATTCTGTGG
 CATGTATGACTTCTCGGGCCAGTTTGCCTTCCATGTGGGCTGCCAGCCAAGTCAGCTGTGTCAGGAGCC
 ATCCTCCTGGTTGTACCCAATGTCATGGGCATGATGTGTCTGTGCGCCGCCGTTAGACAAGCTGGGGAACA
 GCCAAAGGGGCATCAACTTCTGCCAGAAGTTGGTGTCTCTTTAACTTCCACAATATGACAACCTGCG
 GCACTGCGCTCGGAAGTTAGACCACGGAGGGAAGGAGAGGTTGGAACAAGACCGTGGTGAACCTG
 CTATTTGCTGCATATAGTGGAGATGTCTCGGCCCTTCAAGGTTTGCATTGTGCGCCATGGATATGGAGC
 AGAAGGACTATGATTCGCGCACAGCCCTACATGTCGCTGCAGCTGAAGGGCACATTGAAGTTGTCAAATT
 TCTGATCGAGGCTTGCAAAGTGAATCCTTTTGTCAAGGACAGGTGGGGCAACATTCCTGGACGATGCT
 GTGCAGTTCAACCACCTGGAGGTGGTCAAACCTGCTTCAAGATTACCATGACTCCTACTTGTCTCTGAGA
 CTC AAGCTGAGGGCGCAGCTGAGACCCTGTCCAAGAGAATCTAGAGAGCATGGT**ATGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001033264
Insert Size: 1809 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: [NM_001033264.3](#), [NP_001028436.2](#)

RefSeq Size: 2460 bp

RefSeq ORF: 1809 bp

Locus ID: 216456

UniProt ID: [Q571F8](#)

Cytogenetics: 10 D3

Gene Summary: Plays an important role in the regulation of glutamine catabolism. Promotes mitochondrial respiration and increases ATP generation in cells by catalyzing the synthesis of glutamate and alpha-ketoglutarate. Increases cellular anti-oxidant function via NADH and glutathione production. May play a role in preventing tumor proliferation.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.