

## Product datasheet for **MC220314**

### Gls (NM\_001081081) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gls (NM_001081081) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gls
Synonyms:	6330442B14; AI314027; B230365M23Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC220314 representing NM\_001081081  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGCGGCTGCGAGGCTCGGCGATGCTACGGGAGCTGCTCTTAAGGCCGCCGCCCGCTCGGAGCCG  
 TCCTGCGGCGCGCGCAGCCCTCGGCACGCTGTGCCGGCGCCCGGGGCGGAGCCGGCCGACCGCTGG  
 CCTGGTGGCCGCTGCGGACTCCACCCGTGGTGGGGCGGGGCGGCCGCGCAAGGGCCCCGCGCGGGC  
 GGCCTGTCCAGTTCGCCCTCGGAGATCCTACAGGAGCTGGGGAAGGGGGTACGCCGCCACAGCAGCAGC  
 AGCAGCAGCAGCAGCAGCCAGGGGCGTCCGCCACCCGACGCCCCGGGCCCAAGGACAGCCGGGGGAGAC  
 CGACGCGTTTGGCAACAGCGAGGGCAAGGAGATGGTGGCCGCGGGCGACAATAAAATAAAACAGGGTCTG  
 TTACCTAGCTTGAAGATTTGCTGTTCTATAACAATGCAGAAGGACAAGAAAAGATACCTGTTACAAGT  
 TTATTACAGCACTCAAATCTACAGGATTGCGAACATCTGATCCCAGGTTGAAAGAGTGTATGGATATGTT  
 AAGATTAACCTTTCAGACAACGTCAGATGGTGTATGCTAGACAAAGATCTTTTTAAAAAGTGTGTTCAA  
 AGCAACATTGTTTTGTTGACACAAGCATTTAGAAGAAAAGTTTGTATTCTGACTTTATGCTTTTTACCT  
 CACACATCGATGAGTTATATGAAAGTGCTAAAAAGCAGTCTGGAGGGAAGGTTGCTGATTATTCCTCA  
 GCTGGCCAAATTCAGTCTGATTTGTGGGGTGTATCTGTCTGTACTGTAGATGGGCAAAGGCATTCTATT  
 GGAGATACCAAAGTTCCTTTTTGTCTTCAGTCTGTGTAACCCCTGAAATA TGCAATTGCTGTTAATG  
 ACCTGGGAAGTGTAGTACATCGCTATGTTGGGAAGGAGCCAAAGTGGATTAAGATTCAACAACTCTT  
 TTTGAATGAAGATGATAAACCACATAATCCTATGGTAAATGCTGGAGCAATTGTTGTGACTTCTCTAATA  
 AAGCAAGGAGTAAATAATGCTGAGAAGTTTACTACGTGATGCAATTTTTGAATAAGATGGCTGGTAATG  
 AATATGTTGGATTGATGCAACGTTTCACTGCTGAACGAGAAAGTGGAGATCGAAATTTTGCAATAGG  
 ATATTACTTAAAAGAAAAGAAGTGTTCAGAAAGGCACAGACATGGTTGGGATACTAGATTTTTACTTC  
 CAGCTGTGCTCTATTGAAGTGACATGTGAATCAGCAAGTGTGATGGCTGCCACCTTGCTAATGGTGTT  
 TCTGCCAATTACTGGTGAAGAGTCTCAGTCTGAGGCAGTTCGGAATACACTGAGCTTGATGCATTC  
 TTGTGGCATGTATGACTTCTCAGGGCAGTTTGCCTTCCATGTTGGTCTTCTGCAAAATCTGGAGTTGCT  
 GGGGGTATTCTTTAGTTGTCCCAACGTCATGGGCATGATGTGTTGGTCTCTCTCTTGACAAGATGG  
 GCAACAGTGTAAAGGAATTCATTTTTGTCACGATCTTGTCTCTGTGTAACCTCCATAACTATGATAA  
 TTTGAGACACTTTGCAAAAAAATTTGATCCTCGGAGAGAAGGAGGTGATCAAAGGGTGAAGTCGGTGATA  
 AACCTTCTGTTTCCGCATACACTGGAGATGTGTCTGCCCTCCGAAGTTTGTCTGTGACCCATGGACA  
 TGGAGCAGCGGATTATGACTCCAGAACAGCCCTCCATGTGCGCAGCAGCAGAGGGTCATGTTGAAGTTGT  
 CAAGTTTTTGTGGAAGCTTGAAGTAAACCTTTCCCAAGGACAGGTGGAATAATACCCCATGGAT  
 GAAGCACTACACTTTGGACCATGATGTTTTTAAATCCTTCAGGAATACCAAGTTCAGTACACACCTC  
 AAGGGGATTCTGATGATGGAAAGGAAACCAGACTGTCCACAAGAATCTCGACGGGTTGCTA**TAA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-RsrII  
**ACCN:** NM\_001081081  
**Insert Size:** 2025 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](mailto: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\\_001081081.2](#), [NP\\_001074550.1](#)

**RefSeq Size:** 4974 bp

**RefSeq ORF:** 2025 bp

**Locus ID:** 14660

**UniProt ID:** [D3Z7P3](#)

**Cytogenetics:** 1 26.86 cM

**Gene Summary:** Catalyzes the first reaction in the primary pathway for the renal catabolism of glutamine. Plays a role in maintaining acid-base homeostasis. Regulates the levels of the neurotransmitter glutamate in the brain.[UniProtKB/Swiss-Prot Function]  
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.