

Product datasheet for **MC219497**

Gls (NM_001113383) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gls (NM_001113383) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gls
Synonyms:	6330442B14; AI314027; B230365M23Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219497 representing NM_001113383
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGCGGCTGCGAGGCTCGGCGATGCTACGGGAGCTGCTCTTAAGCCGCCGCCGCCGCTCGGAGCCG
 TCCTGCCGGCGCGCAGCCCTCGGCACGCTGTGCCGGCGCCCGGGGCGGAGCCGGCCGACCGCTGG
 CCTGGTGGCCGCTGCGGACTCCACCCGTGGTGGGGCGGGGGCGGCCGCGCAAGGGCCCGCGCGGGC
 GGCCTGTCCAGTTCGCCCTCGGAGATCTACAGGAGCTGGGGAAGGGGGTACGCCGCCACAGCAGCAGC
 AGCAGCAGCAGCAGCAGCCAGGGGCGTCGCCACCCGACGCCCCGGGCCCAAGGACAGCCGGGGGAGAC
 CGACGCGTTTCGGCAACAGCGAGGGCAAGGAGATGGTGGCCGGGGCGACAATAAAATAAAACAGGGTCTG
 TTACTAGCTTGAAGATTTGCTGTTCTATAACAATTGCAGAAGGACAAGAAAAGATACCTGTTCAACAAGT
 TTATTACAGCACTCAAACTACAGGATTGCGAACATCTGATCCCAGGTTGAAAGAGTGTATGGATATGTT
 AAGATTAACCTTCAGACAACGTGAGTGGTGTATGCTAGACAAAGATCTTTTTAAAAAGTGTGTTCAA
 AGCAACATTGTTTTGTTGACACAAGCATTTAGAAGAAAAGTTTGTCACTTCGACTTTATGCTTTTTACCT
 CACACATCGATGAGTTATATGAAAGTGCTAAAAAGCAGTCTGGAGGGAAGGTTGCTGATTATTCCTCA
 GCTGGCCAAATTCAGTCTGATTTGTGGGGTGTATCTGTCTGTACTGTAGATGGGCAAAGGCATTCTATT
 GGAGATACCAAAGTTCCTTTTTGCTTCAGTCTGTGTAACCCCTGAAATATGCAATTGCTGTTAATG
 ACCTGGGAAGTGAATGTACATCGCTATGTTGGGAAGGAGCCAAAGTGGATTAAGATTCAACAACTCTT
 TTTGAATGAAGATGATAAACCACATAATCCTATGGTAAATGCTGGAGCAATTGTTGTGACTTCTCTAATA
 AAGCAAGGAGTAAATAATGCTGAGAAGTTTACTACGTGATGCAATTTTTGAATAAGATGGCTGGTAATG
 AATATGTTGGATTCAGTAATGCAACGTTTCAGTCTGAACGAGAAAGTGGAGATCGAAATTTTGCAATAGG
 ATATTACTTAAAAGAAAAGAAGTGTTCAGAAAGGCACAGACATGGTTGGGATACTAGATTTTTACTTC
 CAGCTGTGCTCTATTGAAGTGACATGTGAATCAGCAAGTGTGATGGCTGCCACCTTGCTAATGGTGTT
 TCTGCCAATTACTGGTGAAGAGTCTCAGTCTGAGGCAGTTCGGAATACACTGAGCTTGATGCATTC
 TTGTGGCATGTATGACTTCTCAGGGCAGTTTGCCTTCATGTTGGTCTTCTGCAAAATCTGGAGTTGCT
 GGGGGTATTCTTTAGTTGTCCCAACGTCATGGGCATGATGTGTTGGTCTCTCTCTTGTACAAGATGG
 GCAACAGTGTAAAGGAATTCATTTTGTACGATCTGTTTCTCTGTGTAACCTCCATAACTATGATAA
 TTTGAGACACTTTGCAAAAAAATTTGATCCTCGGAGAGAAGGAGGTGATCAAAGGCATTCCTTTGGACCA
 TTGGACTATGAGAGTCTCCAGCAAGAATTTGCTTTAAAAGACACAGTATGAAAAAAGTGTACCTGAGT
 CAAGTGACGACACCTCTACAACGTAGTATATAGAATGGAGAGTCTGGGGGAGAGGAGC**TAG**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-RsrII
- ACCN:** NM_001113383
- Insert Size:** 1812 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_001113383.1](#), [NP_001106854.1](#)

RefSeq Size: 4419 bp

RefSeq ORF: 1812 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 (2) includes an alternate exon, compared to variant 1, resulting in a shorter protein (isoform 2) that has a distinct C-terminus, compared to isoform 1.