

Product datasheet for **RN200516**

Gls (NM_001109968) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gls (NM_001109968) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gls
Synonyms:	Glut; RATGLUT
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN200516 representing NM_001109968
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGCGGCTGCGAGGCTCGGCGATGTGCGGGAGCTGCTCTTGAGCCGCCTGCCCGCTCGGAGGCG
 TCTTGCGGCGCGCGCAGCCCTCGGTACGCTGTGCCGGCGCCCGGGGCGGGAGCCGGCCGGCCGCTGG
 CCTGGTGGCCGCTGCGGACTCCACCCGTGGTGGGGCGGGGGCGGCCGCGCAAGGGCCCGGGCTCGGGC
 GGCCTGTCCAGCTCGCCCTCGGAGATCCTGCAGGAGCTGGGCAAGGGGGGCACGCCGCCACAGCAGCAGC
 AGCAGCAGCAGCAGCAGCCAGGGGCGTCCACCCGACGCCCCGGGCCCAAGGACAGCCGGGGGAGAC
 GGACGCGTTGCGCAACAGCGAAGGCAAGGAGATGGTGGCTGCGGGCGACAATAAAGTAAAGCAGGGTCTG
 TTACTAGCTTGAAGATTTGCTGTTCTATAACAATTGCAGAAGGACAAGAAAAGATACCTGTTCAACAAGT
 TTATTACAGCACTCAAACTACAGGATTGCGAACATCTGATCCCAGGTTGAAAGAGTGTATGGATATGTT
 AAGATTAACCTTCAGACAACGTGAGTGGTGTATGCTAGACAAAGATCTTTTTAAAAAGTGTGTTCAA
 AGCAACATCGTTTTGTTAACACAAGCATTTAGAAGAAAAGTTTGTATCCCTGACTTTATGCTTTTTACCT
 CACACATCGATGAGTTATATGAAAGTGCTAAAAAGCAGTCTGGAGGGAAGGTTGCTGATTATATTCCTCA
 ACTGGCCAAATTCAGTCTGATTTGTGGGGTGTATCTGTTGTACCGTAGATGGGCAAAGGCATTCTATT
 GGAGATACCAAAGTCCCTTTTGTCTTCAGTCTGTGTAAGCCCTGAAATATGCAATTGCTGTCAATG
 ACCTGGGAAGTGAATGTGCATCGCTATGTTGGGAAGGAGCCAAAGTGGATTAAGATTCAACAAGCTCTT
 TTTGAATGAAGATGATAAACCACATAATCCGATGGTAAATGCTGGAGCAATTGTTGTGACTTCACATAA
 AAGCAAGGAGTAAATAATGCTGAGAAAATTTGACTATGTGATGCAATTTTTGAATAAGATGGCTGGTAATG
 AATATGTCGGATTCAGTAATGCAACGTTTCAATCTGAACGAGAAAAGTGGAGACCGAAAATTTGCAATAGG
 ATATTACTTAAAAGAAAAGAAGTGTTCAGAAAGGCACAGACATGGTTGGGATACTAGATTTTTATTTTC
 CAGCTCTGTTCCATTGAAGTGACGTGTGAGTCAGCAAGTGTGATGGCTGCAACCTTGCTAATGGCGTT
 TCTGCCAATTACTGGTGAAGAGTGCTCAGTCTGAGGCCGTTGGAATACCCTGAGCTAATGCACTC
 CTGTGGCATGTATGACTTCTCAGGGCAGTTGCAATTCATGTTGGTCTTCTGCAAAATCTGGAGTTGCT
 GGGGGTATTCTTTAGTTGTCCCAACGTCATGGGCATGATGTGTTGGTCTCTCTCTTGTACAAGATGG
 GCAACAGTGTTAAAGGAATTCATTTTGTACGATCTGTTTCTCTGTGTAACCTCCATAACTATGATAA
 TTTGAGACACTTTGCAAAAAAATTTGATCCTCGGAGAGAAGGAGGTGATCAAAGGCATTCCTTTGGACCA
 TTGGACTATGAGAGTCTCCAGCAAGAATTGCTTTAAAAGACACAGTGTGAAAAAAGTGTACCTGAGT
 CAAGTGACGACACGCTACAACATATAGTGTATAGAATGAAAAGTCTGGGGGAGAGGAGC**TAG**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001109968

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_001109968.1](#), [NP_001103438.1](#)

RefSeq Size: 4219 bp

RefSeq ORF: 1812 bp

Locus ID: 24398

UniProt ID: [P13264](#)

Cytogenetics: 9q22

Gene Summary: catalyzes the conversion of L-glutamine and H₂O to L-glutamate and NH₃ in glutamine catabolism [RGD, Feb 2006]
Transcript Variant: This variant (2) differs in the 3' UTR and coding region compared to variant 1. The resulting isoform (b) is shorter and has a distinct C-terminus compared to isoform a.
Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments and orthologous data.