

Product datasheet for **RN200515**

Gls (NM_012569) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gls (NM_012569) 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: >RN200515 representing NM_012569
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGCGGCTGCGAGGCTCGGCGATGTGCGGGAGCTGCTCTTGAGCCGCCTGCCCGCTCGGAGGCG
 TCTTGCGGCGCGCGCAGCCCTCGGTACGCTGTGCCGGCGCCCGGGGCGGAGCCGGCCGGCCGCTGG
 CCTGGTGGCCGCTGCGGACTCCACCCGTGGTGGGGCGGGGGCGCCGCGCAAGGGCCCGGGCTCGGGC
 GGCCTGTCCAGCTCGCCCTCGGAGATCCTGCAGGAGCTGGGCAAGGGGGGCACGCCGCCACAGCAGCAGC
 AGCAGCAGCAGCAGCAGCCAGGGGCGTCCACCCGACGCCCCGGGCCCAAGGACAGCCGGGGGAGAC
 GGACGCGTTGCGCAACAGCGAAGGCAAGGAGATGGTGGCTGCGGGCGACAATAAAGTAAAGCAGGGTCTG
 TTACCTAGCTTGAAGATTTGCTGTTCTATAACAATTGCAGAAGGACAAGAAAAGATACCTGTTCAACAAGT
 TTATTACAGCACTCAAACTACAGGATTGCGAACATCTGATCCCAGGTTGAAAGAGTGTATGGATATGTT
 AAGATTAACCTTTCAGACAACGTGAGTGGTGTATGCTAGACAAAGATCTTTTTAAAAAGTGTGTTCAA
 AGCAACATCGTTTTGTTAACACAAGCATTTAGAAGAAAAGTTTGTATCCCTGACTTTATGCTTTTACCT
 CACACATCGATGAGTTATATGAAAGTGCTAAAAAGCAGTCTGGAGGGAAGGTTGCTGATTATTCCTCA
 ACTGGCCAAATTCAGTCTGATTTGTGGGGTGTATCTGTTGTACCGTAGATGGGCAAAGGCATTCTATT
 GGAGATACCAAAGTCCCTTTTGTCTTCAGTCTGTGTAAGCCCTGAAATATGCAATTGCTGTCAATG
 ACCTGGGAAGTGAATGTGCATCGCTATGTTGGGAAGGAGCCAAAGTGGATTAAGATTCAACAAGCTCTT
 TTTGAATGAAGATGATAAACCACATAATCCGATGGTAAATGCTGGAGCAATTGTTGTGACTTCACATAA
 AAGCAAGGAGTAAATAATGCTGAGAAAATTTGACTATGTGATGCAATTTTTGAATAAGATGGCTGGTAATG
 AATATGTCCGATTGAGTAAATGCAACGTTTCAATCTGAACGAGAAAAGTGGAGACCGAAATTTTGAATAGG
 ATATTACTTAAAAGAAAAGAAGTGTTCAGAAAGGCACAGACATGGTTGGGATACTAGATTTTTATTTTC
 CAGCTCTGTTCCATTGAAGTGACGTGTGAGTCAGCAAGTGTGATGGCTGCAACCTTGCTAATGGCGTT
 TCTGCCAATTACTGGTGAAGAGTGCTCAGTCTGAGGCCGTTCCGAAATACCCTGAGCTAATGCACTC
 CTGTGGCATGTATGACTTCTCAGGGCAGTTTGCATTTTCATGTTGGTCTTCTGCAAAATCTGGAGTTGCT
 GGGGGTATTCTTTAGTTGTCCCAACGTGATGGGCATGATGTTGGTCTCTCTCTTGTACAAGATGG
 GCAACAGTGTTAAAGGAATTCATTTTGTACGATCTTGTCTCTGTGTAACCTCCATAACTATGATAA
 TTTGAGACACTTTGCAAAAAAATTTGATCCTCGGAGAGAAGGAGGTGATCAAAGGTTAAAGTCCGGTATA
 AACCTCTGTTTGTGCTGACTGAGATGTGTCTGCCCTCCGAAAGTTTGTCTGTGACCCATGGACA
 TGAACAGAGAGATTACGACTCCAGAACAGCCCTGCATGTTGCTGCTGCAAGGTCATGTTGAAGTTGT
 GAAGTTTTTGTGGAAGCTTGAAGGTTAACCCCTTCCCAAGGACAGGTGGAATAACACCCCATGGAT
 GAAGCACTGCACTTTGGACACCATGATGTTTTTAAAAATCCTCCAGGAATACCAAGTTCAGTATACACCTC
 AAGGGGATTCTGACGATGGAAAAGAAAACCAGACTGTCCACAAGAATCTTGACGGGTTGTTA**TAA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_012569

Insert Size: 2025 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_012569.2](#), [NP_036701.2](#)

RefSeq Size: 4530 bp

RefSeq ORF: 2025 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 (1) represents the longer transcript and encodes the longer 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.