

Product datasheet for **RN216945**

Gls2 (NM_001270787) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gls2 (NM_001270787) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gls2
Synonyms:	Ga
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN216945 representing NM_001270787
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCTTTTCCTTTAGATGTGGGCTTTGGGTCCGCCGCTCGGGCGGTGAGGTGCTGCCGCCGGGA
 GGGCGTTTGGGCAGGTCGGTCTTCGAGATGATGCCTGTCCAAGTATGCCTCGAACAGTGGCATGTTGCC
 TCGACTTGGTGACCTGCTTTTCTACACCATTGCAGAGGGGCAGGAACGCATCCCCATCCATAAGTTCACC
 ACGGCCCTGAAGGCCACTGGACTGCAGACGTGAGACCCACGGCTCCAGGACTGCATGAGCAAGATGCAGC
 GCATGGTCCAAGAGTCCAGCAGTGGTGGCTCTTGGACCGAGAAGTCTTCCAAAAGTGTGTGAGCAGCAA
 CATTGTGCTCCTGACTCAGGCATTCCGGAAGAAGTTTGTCACTTCTGACTTTGAGGAGTTCACAGGCCAT
 GTGGATCGTATATTTGAGGATGCCAAAGAGCTCACTGGAGGCAAAGTGGCAGCCTACATCCCTCACCTGG
 CCAAGTCAAACCCAGATCTTTGGGGCGTCTCCCTGTGCACTGTGGATGGGCAGCGACACTCTGTGGCCA
 CACGAAGATCCCTTCTGCCTACAGTCTGTGCAAGCCACTCACTTACGCCATCTCCGTGAGCACCTTA
 GGCACCGACTACGTGCACAAGTTCGTGGCAAGGAACCCAGTGGTCTGCGCTATAACAAACTCTCCCTCA
 ACGAGGAAGGAATCCCTCATAACCCCATGGTCAATGCTGGTGCTATTGTGGTCAGCTCCCTGATCAAGAT
 GGACTGTAAACAAAGCAGAGAAGTTTACTTTGTGTACAGTATCTGAACAAGATGGCTGGGAATGAATTC
 ATGGGGTTCAGCAATGCCACATTCAGTCAGAGAAGGAGACTGGGGATCGGAATTACGCCATTGGCTATT
 ACCTCAAGGAGAAGAAGTGTCCCTAAGGGAGTGGACATGATGGCTGCCCTTGATCTCTATTTCCAGCT
 GTGCTCTGTGGAGTTACCTGTGAGTCAGGCAGTGTGATGGCGGCCACTTTGCCAATGGCGGCATCTGC
 CCCATCACAGGGGAGAGCGTGTGAGTGGGAAGCCGTGCGCAACACCCTCAGCCTCATGCACTCCTGTG
 GCATGTATGACTTCTCGGGCCAGTTTGCCTTCCACGTGGGCTGCCAGCCAAGTCACTGTGTCCGGGAGC
 CATCCTCCTGGTTGTACCCAATGTGATGGGGATGATGTGCTGTACCCCGTTAGACAAGCTGGGGAAC
 AGCCACAGGGGCATCAGCTTCTGCCAGAAGTTGGTGTCTCTGTTAACTCCACAACACGACAACCTGC
 GGCAGTGTCTCGGAAGTTAGACCCACGGAGGGAAGGGGGGAAGTTCCGGAACAAGACCGTGGTGAACCT
 GTTATTTGCTGCATATAGTGGAGATGTCTCAGCTCTTCGAAGGTTTGCCTTGTCTGCCGTGGATATGGAG
 CAGAAGGACTATGATCCCGCACAGCCCTACATGTGGCGCAGCGGAAGGACACATTGACGTTGTCAAGT
 TTCTGATCGAGGCTTCAAAGTGAATCCTTTTGTCAAGGACAGGTGGGGCAACATTTCCCTGGATGATGC
 CGTGCAGTCAATCACCTGGAGGTGCTCAAAGTCTTCAAGGATTACCATGACTCCTACATGCTGTCTGAG
 ACTCAAGCTGAGGTAGCAGCTGAGACTCTGTCAAAGAGAAGTCTAGAGAGCATGGT**GTA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001270787
- Insert Size:** 1740 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001270787.1](#), [NP_001257716.1](#)

RefSeq Size: 2798 bp

RefSeq ORF: 1740 bp

Locus ID: 192268

UniProt ID: [P28492](#)

Cytogenetics: 7q11

Gene Summary: first enzyme of glutamine catabolism in liver [RGD, Feb 2006]
Transcript Variant: This variant (2) uses an alternate splice site at the 3' end of the first exon compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to 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.