

## Product datasheet for **RR200515**

### Gls (NM\_012569) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gls (NM_012569) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gls
Synonyms:	Glut; RATGLUT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RR200515 representing NM\_012569  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGCGGCTGCGAGGCTCGGCGATGCTGCGGGAGCTGCTCTTGAGCCGCCTGCCCGCTCGGAGGCG  
 TCTTGCGGCGCGCGCAGCCCTCGGTACGCTGTGCCGGCGCCCGGGGCGGGAGCCGGCCGGCCGCTGG  
 CCTGGTGGCCGCTGCGGACTCCACCCGTGGTGGGGCGGGGGCGGCCGCGCAAGGGCCCGGGCTCGGGC  
 GGCCTGTCCAGCTCGCCCTCGGAGATCCTGCAGGAGCTGGGCAAGGGGGGCACGCCGCCACAGCAGCAGC  
 AGCAGCAGCAGCAGCAGCCAGGGGCGTCCGCCACCCGACGCCCCGGGCCCAAGGACAGCCGGGGGAGAC  
 GGACGCGTTTGGCAACAGCGAAGGCAAGGAGATGGTGGCTGCGGGCGACAATAAAGTAAAGCAGGGTCTG  
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 GGAGATACCAAAGTTCCTTTTTGCTTTCAGTCTGTGTAAGCCCTGAAATATGCAATTGCTGTCAATG  
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 GAAGTTTTTGTGGAAGCTTGAAGTTAACCCCTTCCCAAGGACAGGTGGAATAACACCCCATGGAT  
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 AAGGGGATTCTGACGATGGAAAAGAAAACCAGACTGTCCACAAGAATCTTGACGGGTTGTTA

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR200515 representing NM\_012569  
Red=Cloning site Green=Tags(s)

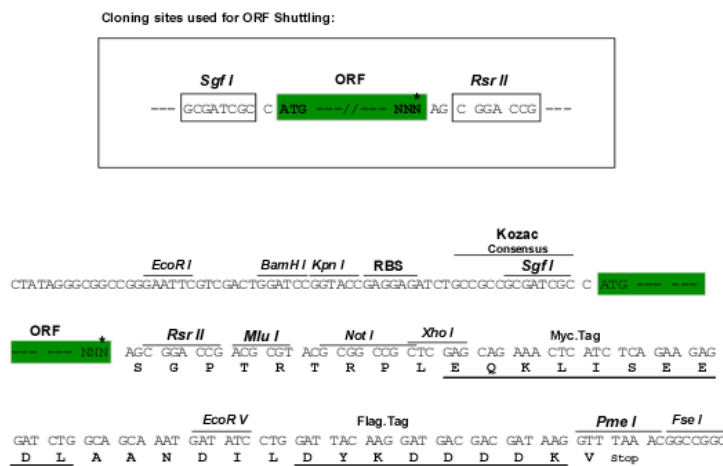
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SNIVLLTQAFRRKFVIPDFMSFTSHIDELYESAKKQSGGKVADYIPQLAKFSPDLWGVSVCTVDGQRHSI
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KQGVNNAEKFDYVMQFLNKMAGNEYVGFSNATFQSERESGDRNFAIGYYLKEKKCFPEGTDMVGILDYF
QLCSIEVTCESASVMAATLANGGFCPITGERVLSPEAVRNTLSLMHSCGMDFSGQFAFHVGLPAKSGVA
GGILLVVPNVMGMMCWSPPLDKMGNSVKGIHFCHDLVSLCNFHNYDNLRFHAKKLDPRREGGDQRVKSVI
NLLFAAYTGDVSALRRFALSAMDMEQRDYDSRTALHVAAAEGHVEVVKFLLLEACKVNPFPKDRWNNTPM
EALHFGHHDVFKILQEYQVQYTPQGDSDDGKENQTVHKNDGLL
```

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-RsrII

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_012569

**ORF Size:** 2022 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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

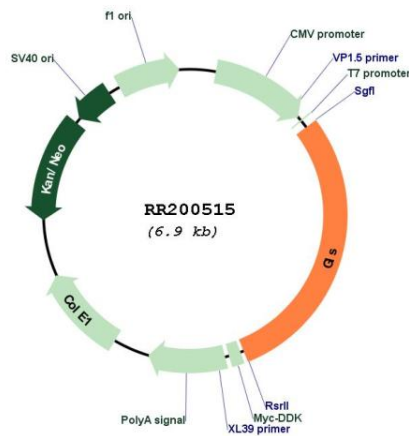
**UniProt ID:** [P13264](#)

**Cytogenetics:** 9q22

**MW:** 74 kDa

**Gene Summary:** catalyzes the conversion of L-glutamine and H<sub>2</sub>O to L-glutamate and NH<sub>3</sub> in glutamine catabolism [RGD, Feb 2006]

**Product images:**



Circular map for RR200515