

## Product datasheet for **RR216984**

### **Gls2 (NM\_001270786) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gls2 (NM_001270786) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gls2
Synonyms:	Ga
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR216984 representing NM\_001270786  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCGCTCCATGAGGGCTCTGCAGAACGCGCTGAGCCGCGGGCAGCCACGGCCAGAGGGGAGGCTGGG  
 GTCACCCGAGCCGGGGCCGCTCCTGGCGGGGGTGTCCGGTACTACTTCGGTGAGGCCGCGCAGGG  
 CAGGGGGACGCCACAGCCACCAGCCGACACTCGGACCATGATGCCTCGAACAGTGGCATGTTGCCCT  
 CGACTTGGTGACCTGCTTTTCTACACCATTGCAGAGGGGCAGAACGCATCCCCATCCATAAGTTACCA  
 CGGCCCTGAAGGCCACTGGACTGCAGACGTGAGACCCACGGCTCCAGGACTGCATGAGCAAGATGCAGCG  
 CATGGTCCAAGAGTCCAGCAGTGGTGGCCTCTTGACCGAGAACTCTTCCAAAAGTGTGTGAGCAGCAAC  
 ATTGTGCTCCTGACTCAGGCATTCGGAAGAAGTTTGCATTCTGACTTTGAGGAGTTCACAGGCCATG  
 TGGATCGTATATTTGAGGATGCCAAAGAGCTCACTGGAGGCAAAGTGGCAGCCTACATCCCTCACCTGGC  
 CAAGTCAAACCCAGATCTTTGGGGCGTCTCCCTGTGACTGTGGATGGGCAGCGACTCTGTGGGCCAC  
 ACGAAGATCCCTTTCTGCCTACAGTCTGTGTCAAGCCACTCACTTACGCCATCTCCGTGAGCACCTTAG  
 GCACCGACTACGTGCACAAGTTCGTGGGCAAGGAACCCAGTGGTCTGCGCTATAACAAAACCTCCCTCAA  
 CGAGGAAGGAATCCCTCATAACCCCATGGTCAATGCTGGTGTATTGTGGTCAAGTCCCTGATCAAGATG  
 GACTGTAACAAAGCAGAGAAGTTTACTTTGTGTACAGTATCTGAACAAGATGGCTGGGAATGAATTCA  
 TGGGGTTCAGCAATGCCACATCCAGTCAGAGAAGGAGACTGGGGATCGGAATTACGCCATTGGCTATTA  
 CCTCAAGGAGAAGAAGTCTTCCCTAAGGGAGTGGACATGATGGCTGCCCTTGATCTCTATTTCCAGCTG  
 TGCTCTGTGGAGGTTACCTGTGAGTCAGGCAGTGTGATGGCGGCCACTTTGCCAATGGCGGCATCTGCC  
 CCATCACAGGGGAGAGCGTGTGAGTGCAGGAGCCGTGCGCAACACCCTCAGCCTCATGCACTCCTGTGG  
 CATGTATGACTTCTCGGGCCAGTTTGCCTTCCAGTGGGGCTGCCAGCCAAGTCAAGTGTGTCGGGAGCC  
 ATCCTCCTGGTTGATACCAATGTCATGGGGATGATGTGTCTGTACCCCCGTTAGACAAGCTGGGGAACA  
 GCCACAGGGGCATCAGCTTCTGCCAGAAGTTGGTGTCTCTGTTTAACTCCACAACACGACAACCTGCG  
 GCACTGTGCTCGGAAGTTAGACCACGGAGGGAAGGGGGGAAGTTCGGAACAAGACCGTGGTGAACCTG  
 TTATTTGCTGCATATAGTGGAGATGTCTCAGCTCTTCAAGGTTTGCCTTGTCTGCCGTGGATATGGAGC  
 AGAAGGACTATGATTCGCCACAGCCCTACATGTGGCGGACGGGAAGGACACATTGACGTTGTCAAGTT  
 TCTGATCGAGGCTTCAAAGTGAATCCTTTTGTCAAGGACAGTGGGGCAACATTCCTGGATGATGCC  
 GTGCAATCAATCACCTGGAGGTGGTCAAAGTCTTCAAGGATTACCATGACTCCTACATGCTGTCTGAGA  
 CTC AAGCTGAGGTAGCAGCTGAGACTCTGTCAAAGAGAAGTCTAGAGAGCATGGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216984 representing NM\_001270786  
 Red=Cloning site Green=Tags(s)

MRSRALQNALSRAGSHQRRGGWGHPSRGPLLGGGVRYFFGEAAAQGRGTPHSHQPQHSDDASNSGMLP  
 RLGDLLFYTIAEGQERIPHFKFTALKATGLQTS DPRLQDCMSKMQRMVQESSGGLLDRELQKCVSSN  
 IVLLTQAFRKKFVIPDFEFTGHVDRI FEDA KELTGKVAAYIPHLAKSNPDLWGVS LCTVDGQRH SVGH  
 TKIPFCLQSCVKPLTYAISVSTLGT DYVHKFVKGEP SGLRYNKL SLNEEGIPHNPMVNAGAI VVSSLIKM  
 DCNKA EKFD FVLQYLNKMAGNEFMGFSNATFQSEKETGDRNYAIGYYLKEKKCFPKGVDMMALDLYFQL  
 CSVEVTCESGSVMAATLANGGICPITGESVLSAEAVRNTLSLMHSCGMYDFSGQFAFHVGLPAKSAVSGA  
 ILLVVPNVMMMLSPPLDKLGN SHRGISFCQKLVSLFNFHNYDNLRHCA RKLDP RREGGEVRNKTVVNL  
 LFAAYS GDVSALRRFALS AVDM EQDYDSRTALHVAAAEGHIDVVKFLIEACKVNP FVKDRWGNIP LDDA  
 VQFNHLEVVKLLQDYHDSYMLSETQAEVA AETLSKENLESMV

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001270786

**ORF Size:** 1806 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\\_001270786.1](#), [NP\\_001257715.1](#)

**RefSeq Size:** 2552 bp

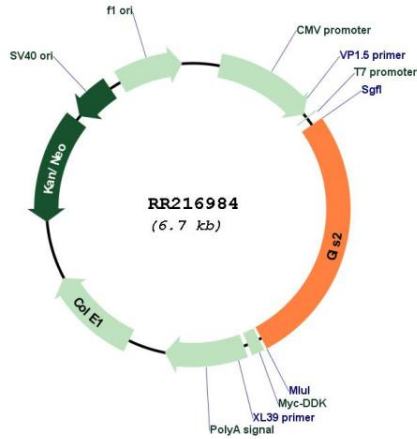
**RefSeq ORF:** 1809 bp

**Locus ID:** 192268

**UniProt ID:** [P28492](#)

Cytogenetics: 7q11  
 MW: 66.2 kDa  
 Gene Summary: first enzyme of glutamine catabolism in liver [RGD, Feb 2006]

**Product images:**



Circular map for RR216984