

Product datasheet for **MR215212**

Gls (NM_001113383) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gls (NM_001113383) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gls
Synonyms:	6330442B14; AI314027; B230365M23Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR215212 representing NM_001113383
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGCGGCTGCGAGGCTCGGCGATGCTACGGGAGCTGCTCTTAAGCCGCCCGCCGCGCTCGGAGCCG
 TCCTGCGGCGCGCGCAGCCCTCGGCACGCTGTGCCGGCCGCCCGGGGGGAGCCGGCCGACCGCTGG
 CCTGGTGGCCGCTGCGGACTCCACCCGTGGTGGGGCGGGGGCGCCGCGCAAGGGCCCGCGCGGGC
 GGCTGTCCAGTTCGCCCTCGGAGATCCTACAGGAGCTGGGAAGGGGGGTACGCCGCCACAGCAGCAGC
 AGCAGCAGCAGCAGCAGCCAGGGCGTCGCCACCCGACGCCCGGGCCCAAGGACAGCCGGGGGAGAC
 CGACGCGTTTCGGCAACAGCGAGGGCAAGGAGATGGTGGCCGCGGGCGACAATAAAATAAACAGGGTCTG
 TTACCTAGCTTGAAGATTTGCTGTTCTATAACAATTGCAGAAGGACAAGAAAAGATACCTGTTCAACAAGT
 TTATTACAGCACTCAAATCTACAGGATTGCGAACATCTGATCCCAGGTTGAAAGAGTGTATGGATATGTT
 AAGATTAACCTTCAGACAACGTCAGATGGTGTATGCTAGACAAAGATCTTTTTAAAAAGTGTGTTCAA
 AGCAACATTGTTTTGTTGACACAAGCATTAGAAAGAAAGTTTGTATTCTCGACTTTATGTCTTTTACCT
 CACACATCGATGAGTTATATGAAAGTGCTAAAAAGCAGTCTGGAGGGAAGTTGCTGATTATATTCTCA
 GCTGGCCAAATTCAGTCTGATTTGTGGGGTGTATCTGTCTGACTGTAGATGGGCAAAGGCATTCTATT
 GGAGATACCAAAGTTCCTTTTTGTCTTCAGTCTGTGTAACCCCTGAAATATGCAATTGCTGTTAATG
 ACCTGGGAACAGTATGTACATCGCTATGTTGGGAAGGACCAAGTGGATTAAGATTCAACAACTCTT
 TTTGAATGAAGATGATAAACCACATAATCCTATGGTAAATGCTGGAGCAATTGTTGTGACTTCTCTAATA
 AAGCAAGGAGTAAATAATGCTGAGAAGTTTGACTACGTGATGCAATTTTTGAATAAGATGGCTGGTAATG
 AATATGTTGGATTTCAGTAATGCAACGTTTCAGTCTGAACGAGAAAGTGGAGATCGAAATTTGCAATAGG
 ATATTACTTAAAAGAAAAGAGTGTTCAGAAAGGCACAGACATGGTTGGGATACTAGATTTTTACTTTC
 CAGCTGTGCTCTATTGAAGTGACATGTGAATCAGCAAGTGTGATGGCTGCCACCTTGCTAATGGTGGTT
 TCTGCCAATACTGGTGAAGAGTCTCAGTCTGAGGCAGTTCGGAATACACTGAGCTTGATGCATTC
 TTGTGGCATGTATGACTTCTCAGGGCAGTTTGCCTTCCATGTTGGTCTTCTGCAAAATCTGGAGTTGCT
 GGGGGTATTCTTTAGTTGTCCCAACGTCATGGGCATGATGTTGGTCTCTCTCTTGTACAAGATGG
 GCAACAGTGTAAAGGAATTCACCTTTGTACGATCTTGTCTCTGTGTAACCTCCATAACTATGATAA
 TTTGAGACACTTTGCAAAAAAATTGATCTCGGAGAGAAGGAGGTGATCAAAGGCATTCCTTTGGACCA
 TTGGACTATGAGAGTCTCCAGCAAGAATTGCTTTAAAAGACACAGTATGAAAAAAGTGTACCTGAGT
 CAAGTGACGACACCTCTACAACGTAGTATATAGAATGGAGAGTCTGGGGGAGAGGAGC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR215212 representing NM_001113383
 Red=Cloning site Green=Tags(s)

MMRLRGSAMLRELLLRPPAAVAVLRRRAQPLGTLRPRRGGSRPTAGLVAAARLHPWWGGGGRAGKPGAG
 GLSSSPSEILQELGKGGTPPQQQQQQQPGASPPAAPGPKDSPGETDAFGNSEGKEMVAAGDNKIKQGL
 LPSLEDLLFYTIAEGQEKIPVHKFITALKSTGLRTSDPRLKECMDMLRLTLQTTSDGVMLDKDLFKKCVQ
 SNIIVLLTQAFRRKFVIPDFMSFTSHIDELYESAKKQSGGKVADYIPQLAKFSPDLWGVSVCTVDGQRHSI
 GDTKVPFCLQSCVKPLKYAIAVNDLGTVEYVHRYVKGESGLRFNKLFLNEDDKPHNPMVNAGAIIVTSLI
 KQGVNNAEKFDYVMQFLNKMAGNEYVGFSNATFQSERESGDRNFAIGYYLKEKKCFPEGTDMVGILDFYF
 QLCSEIVTCEASVMAATLANGGFCPIITGERVLSPEAVRNTLSLMHSCGMYDFSGQFAFHVGLPAKSGVA
 GGILLVVPNVMGMCWSPPLDKMGNSVKGIHFCHDLVSLCNFHNYDNLRFHAKKLDPRREGDQRHSFPG
 LDYESLQQLALKDVTWKKVSPSSDDTSTTVVYRMESLERS

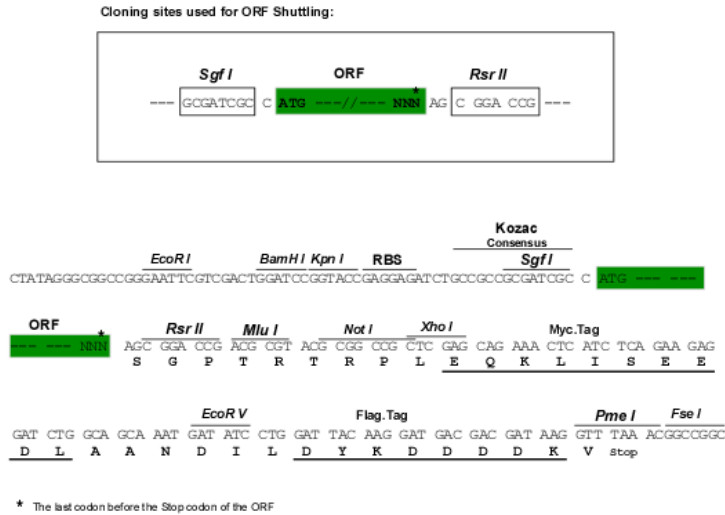
SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja3812_a02.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001113383

ORF Size: 1812 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_001113383.1](#), [NP_001106854.1](#)

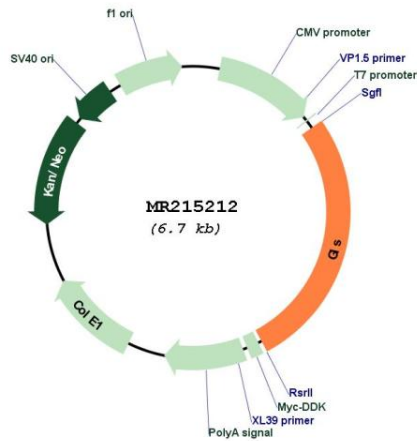
RefSeq Size: 4419 bp

RefSeq ORF: 1812 bp

Locus ID: 14660

UniProt ID: [D3Z7P3](#)
Cytogenetics: 1 26.86 cM
MW: 66 kDa
Gene Summary: Catalyzes the first reaction in the primary pathway for the renal catabolism of glutamine. Plays a role in maintaining acid-base homeostasis. Regulates the levels of the neurotransmitter glutamate in the brain.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215212