OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR229778

Gls2 (NM_001285777) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gls2 (NM_001285777) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gls2
Synonyms:	A330074B06Rik; AI195532; GA; GLS; Lga
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229778 representing NM_001285777 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTGGATCGCATATTTGAGGATGCCAAAGAGCCCACTGGAGGCAAAGCACTCTGTGGGCCACACGAAGA TCCCCTTCTGCCTGCAGTCCTGTGTCAAGCCCCTCACTTACGCCATCTCCGTGAGCACCTTAGGCACTGA CTACGTGCACAAGTTTGTGGGCAAGGAACCCAGTGGTCTGCGCTATAACAAACTCTCCCTCAATGAGGAA GGAATTCCCCATAACCCCATGGTCAATGCTGGTGCCATTGTGGTCAGCTCCCTGATCAAGATGGACTGTA ACAAAGCAGAGAAGTTCGATTTTGTGTTACAGTATCTGAACAAGATGGCTGGGAACGAATTCATGGGGTT CAGCAATGCCACATTCCAGTCAGAGAAGGAGACTGGGGATCGGAATTACGCCATCGGCTATTACCTCAAG GAGAAGAAGTGCTTCCCTAAGGGTGTGGACATGATGGCTGCCCTTGATCTCTATTTCCAGCTGTGCTCTG TGGAGGTTACCTGTGAGTCAGGCAGTGTCATGGCGGCCACTCTGGCCAATGGCGGCATCTGCCCTATCAC AGGGGAGAGCGTGCTGAGCGCCGAGGCCGTGCGCAACACCCTCAGCCTCATGCATTCCTGTGGCATGTAT GACTTCTCGGGCCAGTTTGCCTTCCATGTGGGCCTGCCAGCCAAGTCAGCTGTGTCAGGAGCCATCCTCC TGGTTGTACCCAATGTCATGGGCATGATGTGTCTGTCGCCGCCGTTAGACAAGCTGGGGAACAGCCAAAG GGGCATCAACTTCTGCCAGAAGTTGGTGTCTCTCTTTAACTTCCACAACTATGACAACCTGCGGCACTGC GCTCGGAAGTTAGACCCACGGAGGGAAGGAGGAGAGGTTCGGAACAAGACCGTGGTGAACCTGCTATTTG CTGCATATAGTGGAGATGTCTCGGCCCTTCGAAGGTTTGCATTGTCGGCCATGGATATGGAGCAGAAGGA CTATGATTCCCGCACAGCCCTACATGTCGCTGCAGCTGAAGGGCACATTGAAGTTGTCAAATTTCTGATC GAGGCTTGCAAAGTGAATCCTTTTGTCAAGGACAGGTGGGGCAACATTCCCCTGGACGATGCTGTGCAGT TCAACCACCTGGAGGTGGTCAAACTGCTTCAAGATTACCATGACTCCTACTTGCTCTCTGAGACTCAAGC TGAGGCGGCAGCTGAGACCCTGTCCAAAGAGAATCTAGAGAGCATGGTA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR229778 representing NM_001285777
Red=Cloning site Green=Tags(s)

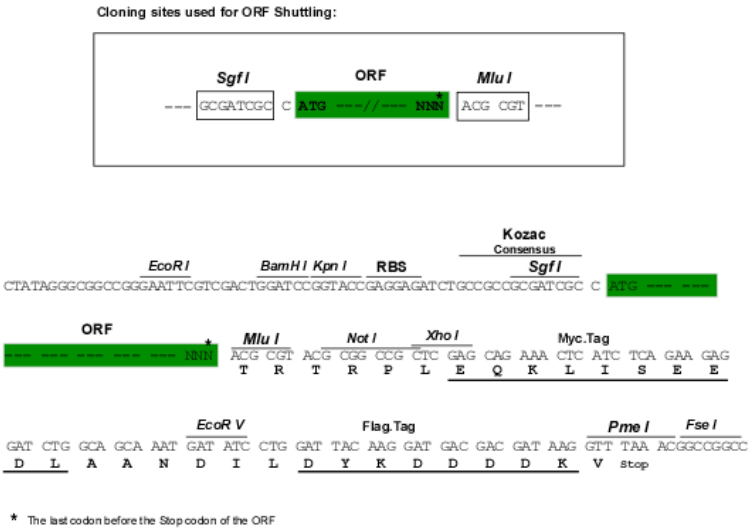
MWIAYLRMPKSPLEAKHSVGHTKIPFCLQSCVKPLTYAISVSTLGTDYVHKFVGKEPSGLRYNKLSLNEE
GIPHNPMVNAGAIVVSSLIKMDCNKAEKFDFVLQYLNKMAGNEFMGFSNATFQSEKETGDRNYAIGYYLK
EKKCFPKGVDMMAALDLYFQLCSVEVTCESGSVMAATLANGGICPITGESVLSAEAVRNTLSLMHSCGMY
DFSGQFAFHVGLPAKSAVSGAILLVVPNVMGMMCLSPPLDKLGNSQRGINFCQKLVSLFNFHNYDNLRHC
ARKLDPRREGGEVRNKTVVNLLFAAYSGDVSALRRFALSAMDMEQKDYDSRTALHVAAAEGHIEVVKFLI
EACKVNPFVKDRWGNIPLDDAVQFNHLEVVKLLQDYHDSYLLSETQAEAAAETLSKENLESMV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

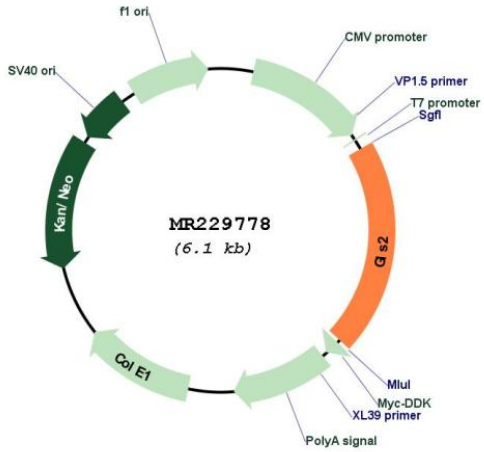
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001285777

ORF Size:	1239 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_001285777.1, NP_001272706.1
RefSeq Size:	2380 bp
RefSeq ORF:	1242 bp
Locus ID:	216456
Cytogenetics:	10 D3
MW:	46.1 kDa
Gene Summary:	Plays an important role in the regulation of glutamine catabolism. Promotes mitochondrial respiration and increases ATP generation in cells by catalyzing the synthesis of glutamate and alpha-ketoglutarate. Increases cellular anti-oxidant function via NADH and glutathione production. May play a role in preventing tumor proliferation.[UniProtKB/Swiss-Prot Function]