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Product datasheet for MC227567

Gls2 (NM_001285777) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gls2 (NM_001285777) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gls2
Synonyms:	A330074B06Rik; AI195532; GA; GLS; Lga
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227567 representing NM_001285777 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTGGATCGCATATTTGAGGATGCCAAAGAGCCCACTGGAGGCAAAGCACTCTGTGGGCCACACGAAGA TCCCCTTCTGCCTGCAGTCCTGTGTCAAGCCCCTCACTTACGCCATCTCCGTGAGCACCTTAGGCACTGA CTACGTGCACAAGTTTGTGGGCAAGGAACCCAGTGGTCTGCGCTATAACAAACTCTCCCTCAATGAGGAA GGAATTCCCCATAACCCCATGGTCAATGCTGGTGCCATTGTGGTCAGCTCCCTGATCAAGATGGACTGTA ACAAAGCAGAGAAGTTCGATTTTGTGTTACAGTATCTGAACAAGATGGCTGGGAACGAATTCATGGGGTT CAGCAATGCCACATTCCAGTCAGAGAAGGAGACTGGGGATCGGAATTACGCCATCGGCTATTACCTCAAG GAGAAGAAGTGCTTCCCTAAGGGTGTGGACATGATGGCTGCCCTTGATCTCTATTTCCAGCTGTGCTCTG TGGAGGTTACCTGTGAGTCAGGCAGTGTCATGGCGGCCACTCTGGCCAATGGCGGCATCTGCCCTATCAC AGGGGAGAGCGTGCTGAGCGCCGAGGCCGTGCGCAACACCCTCAGCCTCATGCATTCCTGTGGCATGTAT GACTTCTCGGGCCAGTTTGCCTTCCATGTGGGCCTGCCAGCCAAGTCAGCTGTGTCAGGAGCCATCCTCC TGGTTGTACCCAATGTCATGGGCATGATGTGTCTGTCGCCGCCGTTAGACAAGCTGGGGAACAGCCAAAG GGGCATCAACTTCTGCCAGAAGTTGGTGTCTCTCTTTAACTTCCACAACTATGACAACCTGCGGCACTGC GCTCGGAAGTTAGACCCACGGAGGGAAGGAGGAGAGGTTCGGAACAAGACCGTGGTGAACCTGCTATTTG CTGCATATAGTGGAGATGTCTCGGCCCTTCGAAGGTTTGCATTGTCGGCCATGGATATGGAGCAGAAGGA CTATGATTCCCGCACAGCCCTACATGTCGCTGCAGCTGAAGGGCACATTGAAGTTGTCAAATTTCTGATC GAGGCTTGCAAAGTGAATCCTTTTGTCAAGGACAGGTGGGGCAACATTCCCCTGGACGATGCTGTGCAGT TCAACCACCTGGAGGTGGTCAAACTGCTTCAAGATTACCATGACTCCTACTTGCTCTCTGAGACTCAAGC TGAGGCGGCAGCTGAGACCCTGTCCAAAGAGAATCTAGAGAGCATGGTATGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_001285777
Insert Size:	1242 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_001285777.1, NP_001272706.1
RefSeq Size:	2380 bp
RefSeq ORF:	1242 bp
Locus ID:	216456
Cytogenetics:	10 D3
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] Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region and uses a downstream start codon compared to variant 1. It encodes isoform 2 which has a shorter N-terminus compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.