

## Product datasheet for **SC335436**

### GLS2 (NM\_001280798) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GLS2 (NM_001280798) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLS2
Synonyms:	GA; GLS; hLGA; LGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335436 representing NM_001280798. Blue=Insert sequence Red=Cloning site Green=Tag(s)

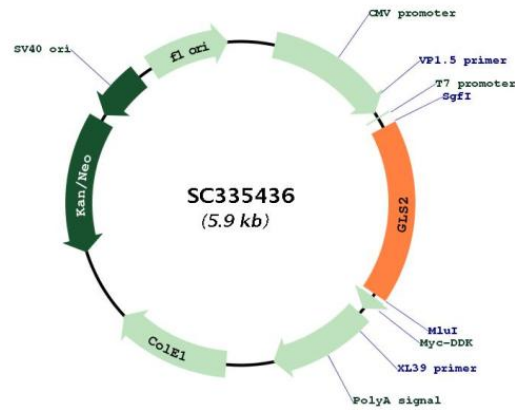
```
GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGTCAATGCTGGTGCCATTGTTGTCAGCTCCCTGATCAAGATGGACTGTAACAAAGCAGAGAAGTTT
GATTTTGTGTTGCAGTATCTCAACAAAATGGCTGGGAATGAATACATGGGTTTCAGCAATGCCACATTC
CAGTCAGAGAAGGAAACAGGGGATCGGAATTATGCCATCGGCTATTATCTCAAGGAAAAGAAGTGCTTT
CCTAAGGGGGTGGACATGATGGCTGCCCTTGATCTCTACTTCCAGCTGTGTTCTGTGGAGGTCACCTGT
GAATCAGGCAGTGTGATGGCAGCCACCCTCGCCAACGGTGGGATCTGCCCCATCACAGGCGAGAGTGTG
CTGAGTGTGAAGCAGTGCACACACCCTCAGCCTCATGCATTCCCTGCGGCATGTATGACTTCTCTGGC
CAGTTTGCCTTCCACGTGGGCCTGCCAGCAAGTCAGCTGTATCAGGAGCCATCCCTCGTGGTACCC
AATGTCATGGGAATGATGTGCCTGTCAACCCATTGGACAAGCTGGGGAACAGCCATAGGGGGACCAGC
TTCTGCCAGAAGTTGGTGTCTCTCTTCAATTTCCACAACATGACAACCTGAGGCACTGTGCTCGGAAG
TTAGACCCACGGCGTGAAGGGGCAGAAATTCGGAACAAGACTGTGGTCAACCTGTTATTTGCTGCCTAT
AGTGGCGATGTCTCAGCTCTTCAAGGTTTGCCTGTGAGCCATGGATATGGAACAGAAAGACTATGAC
TCGCGCACAGCTCTGCATGTTGCTGCAGCTGAAGGACACATCGAAGTTGTTAAATTCCTGATCGAGGCT
TGCAAAGTGAATCCTTTTGCCAAGGACAGGTGGGGCAACATCCCTGGATGATGCTGTGCAGTTCAAC
CATCTGGAGGTGTTCAAAGTCAAGATTACCAGGACTCTACACACTCTGAAACTCAGGCTGAG
GCAGCAGCTGAGGCCCTGTCCAAGAGAACTTAGAAAGCATGGTATGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



[View online »](#)

## Plasmid Map:



ACCN: NM\_001280798

Insert Size: 1014 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).

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\\_001280798.1](#)

RefSeq Size: 2296 bp

RefSeq ORF: 1014 bp

Locus ID: 27165

UniProt ID: [Q9UI32](#)

Cytogenetics: 12q13.3

<b>Protein Pathways:</b>	Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, D-Glutamine and D-glutamate metabolism, Metabolic pathways, Nitrogen metabolism
<b>MW:</b>	37.1 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a mitochondrial phosphate-activated glutaminase that catalyzes the hydrolysis of glutamine to stoichiometric amounts of glutamate and ammonia. Originally thought to be liver-specific, this protein has been found in other tissues as well. Alternative splicing results in multiple transcript variants that encode different isoforms. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR and 5' coding region and uses a downstream start codon compared to variant 1. It encodes isoform 4 which has a shorter N-terminus compared to isoform 1. Both variants 4 and 5 encode the same isoform (4).</p>