

## Product datasheet for **RC237542**

### GLS2 (NM\_001280798) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GLS2 (NM\_001280798) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** GLS2  
**Synonyms:** GA; GLS; hLGA; LGA  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237542 representing NM\_001280798  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTCAATGCTGGTGCCATTGTTGTCAGCTCCCTGATCAAGATGGACTGTAACAAAGCAGAGAAGTTTG  
 ATTTTGTGTTGCAGTATCTCAACAAAATGGCTGGGAATGAATACATGGGTTTCAGCAATGCCACATTCCA  
 GTCAGAGAAGGAAACAGGGGATCGGAATTATGCCATCGGCTATTATCTCAAGGAAAAGAAGTGCTTTCCT  
 AAGGGGTGGACATGATGGCTGCCCTTGATCTCTACTTCCAGCTGTGTTCTGTGGAGGTCACCTTGTGAAT  
 CAGGCAGTGTCATGGCAGCCACCCTCGCCAACGGTGGGATCTGCCCATCACAGGCGAGAGTGTGCTGAG  
 TGCTGAAGCAGTGCACAACACCCTCAGCCTCATGCATTCTCGGGCATGTATGACTTCTCTGGCCAGTTT  
 GCCTTCCACGTGGGCCTGCCAGCCAAGTCAGCTGTATCAGGAGCCATCCTCCTGGTGGTACCCAATGTCA  
 TGGGAATGATGTGCTGTCAACCCATTGGACAAGCTGGGGAACAGCCATAGGGGGACCAGCTTCTGCCA  
 GAAGTTGGTGTCTCTTCAATTTCCACAACATGACAACCTGAGGCACTGTGCTCGGAAGTTAGACCCA  
 CGGCGTGAAGGGCAGAAATTCGGAACAAGACTGTGGTCAACCTGTTATTTGCTGCCTATAGTGGCGATG  
 TCTCAGCTCTTGAAGTTTGCCTGTGTCAGCCATGGATATGGAACAGAAAGACTATGACTCGCGCACAGC  
 TCTGCATGTTGCTGCAGCTGAAGGACACATCGAAGTTGTTAAATTCCTGATCGAGGCTTGCAAAGTGAAT  
 CCTTTTGCCAAGGACAGGTGGGGCAACATTCCTGATGATGCTGTGCAGTTCAACCATCTGGAGGTGG  
 TCAAAGTCTTCAAGATTACCAGGACTCTACACTCTCTGAAACTCAGGCTGAGGCAGCAGCTGAGGC  
 CCTGTCCAAGAGAAGTCTAGAAAGCATGGTA

**ACGGT**ACGGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RC237542 representing NM\_001280798  
Red=Cloning site Green=Tags(s)

MVNAGAI VVSSL IKMDCNKA EKFDV LQYL NKMAGNEYMGFSNATFQSEKETGDRNYAIGYYLKEKKCFP  
 KGVDMMAALDLYQLCSVEVTCESGVSMAATLANGGICPITGESVLSAEAVRNTLSLMHSCGMYDFSGQF  
 AFHVGLPAKSAVSGAILLVVPNVGMMLCLSPPLDKLGNHRGTSFCQKL VSLFNFNHYDNLRHCAKLDLP  
 RREGAEIRNKTVVNLFFAAYSGDV SALRRFALSAMDMEQKDYDSRTALHVA AAEHGIEVVKFLIEACKVN  
 PFAKDRWGNIPLDDAVQFNHLEVVKLLQDYQDSYTLSETQAEAAA EALSKENLES MV

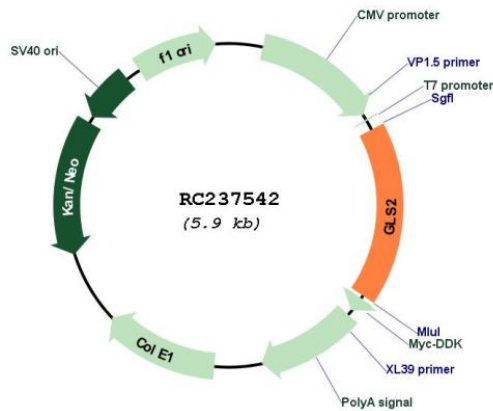
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001280798

**ORF Size:** 1011 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001280798.1</a> , <a href="#">NP_001267727.1</a>
<b>RefSeq Size:</b>	2296 bp
<b>RefSeq ORF:</b>	1014 bp
<b>Locus ID:</b>	27165
<b>UniProt ID:</b>	<a href="#">Q9UI32</a>
<b>Cytogenetics:</b>	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>	37.5 kDa
<b>Gene Summary:</b>	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]