

## Product datasheet for **RC237458**

### GLS2 (NM\_001280796) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GLS2 (NM_001280796) 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:	>RC237458 representing NM_001280796 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGAATACATGGGTTTCAGCAATGCCACGGAAGGTAATTTTTCCCTTCTCCAACACCCACTCCTCAA  
CTTCAAGTACTAAATTGGGTGTTTGCTTCAGATCCAGTCAGAGAAGAAACAGGGGATCGGAATTATGC  
CATCGGCTATTATCTCAAGGAAAAGAAGTGCTTTCCTAAGGGGTGGACATGATGGCTGCCCTTGATCTC  
TACTTCCAGCTGTGTTCTGTGGAGGTCCTTGTGAATCAGGCAGTGTGATGGCAGCCACCCCTCGCCAACG  
GTGGGATCTGCCCATCACAGGCGAGAGTGTGCTGAGTGTGAAGCAGTGCAGCAACCCCTCAGCCTCAT  
GCATTCCTGCGGCATGTATGACTTCTCTGGCCAGTTTGCCTTCCACGTGGGCCTGCCAGCCAAGTCAGCT  
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TGACAACCTGAGGCACTGTGCTCGGAAGTTAGACCCACGGCGTGAAGGGGAGAAATTCGGAACAAGACT  
GTGGTCAACCTGTTATTTGCTGCCTATAGTGGCGATGTCTCAGCTCTTGAAGGTTTGCCTGTGAGCCA  
TGGATATGGAACAGAAAGACTATGACTCGGCACAGCTCTGCATGTTGCTGCAGCTGAAGGACACATCGA  
AGTTGTTAAATTCCTGATCGAGGCTTGCAAAGTGAATCCTTTTGCCAAGGACAGGTGGGGCAACATTCCC  
CTGGATGATGCTGTGAGTTCAACCATCTGAGAGTGGTCAAAGTCTTCAAGATTACCAGGACTCCTACA  
CACTCTCTGAAACTCAGGCTGAGGCAGCAGCTGAGGCCCTGTCCAAGAGAACTTAGAAAGCATGGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237458 representing NM\_001280796  
Red=Cloning site Green=Tags(s)

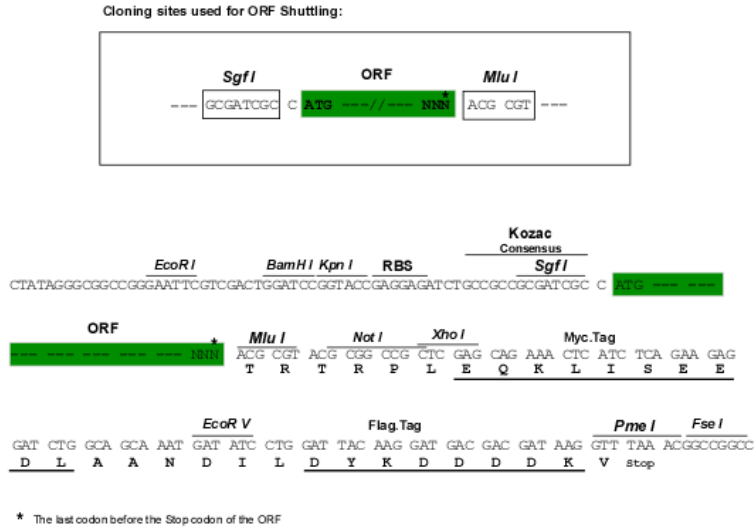
MNTWVSAMPRKVIFFLLPTPTPPTSSTKLGVCFRFQSEKETGDRNYAIGYYLKEKKCFPKGVDMMMAALDL  
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 VSGAILLVVPNVMGMMCLSPPLDKLGNSHRGTSFCQKLVSLFNHNYDNLRHCARKLDPREGAEIRNKI  
 VVNLFFAAYSQDVSALRRFALSAMDMEQKDYDSRTALHVAEEHIEVVKFLIEACKVNPFAKDRWGNIP  
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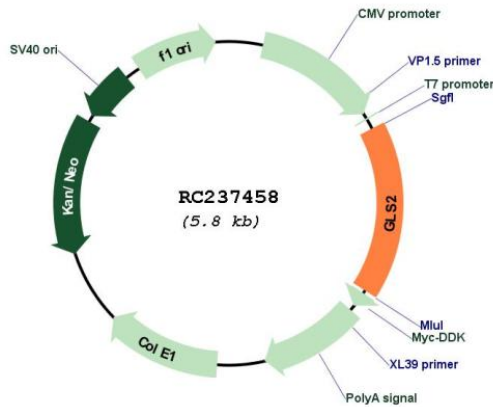
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001280796

**ORF Size:** 978 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_001280796.2</a>
<b>RefSeq Size:</b>	2721 bp
<b>RefSeq ORF:</b>	981 bp
<b>Locus ID:</b>	27165
<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>	36.4 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]