

Product datasheet for **RG237542**

GLS2 (NM_001280798) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLS2 (NM_001280798) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLS2
Synonyms:	GA; GLS; hLGA; LGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237542 representing NM_001280798. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGTCAATGCTGGTGCCATTGTTGTCAGCTCCCTGATCAAGATGGACTGTAACAAAGCAGAGAAGTTT
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CAGTCAGAGAAGGAAACAGGGGATCGGAATTATGCCATCGGCTATTATCTCAAGGAAAAGAAGTGCTTT
CCTAAGGGGGTGGACATGATGGCTGCCCTTGATCTCTACTTCCAGCTGTGTTCTGTGGAGGTCACTGTG
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CAGTTTGCCTTCCACGTGGGCCTGCCAGCCAAGTCAGCTGTATCAGGAGCCATCCTCCTGGTGGTACCC
AATGTCATGGGAATGATGTGCCTGTCAACCCATTGGACAAGCTGGGGAACAGCCATAGGGGGACCAGC
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TCGCGCACAGCTCTGCATGTTGCTGCAGCTGAAGGACACATCGAAGTTGTTAAATTCCTGATCGAGGCT
TGCAAAGTGAATCCTTTTGCCAAGGACAGGTGGGGCAACATCCCCTGGATGATGCTGTGCAGTTCAAC
CATCTGGAGGTGGTCAAACCTGCTTCAAGATTACCAGGACTCTACACACTCTCTGAAACTCAGGCTGAG
GCAGCAGCTGAGGCCCTGTCCAAGAGAAGTCTAGAAAGCATGGTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237542
 Blue=ORF Red=Cloning site Green=Tag(s)

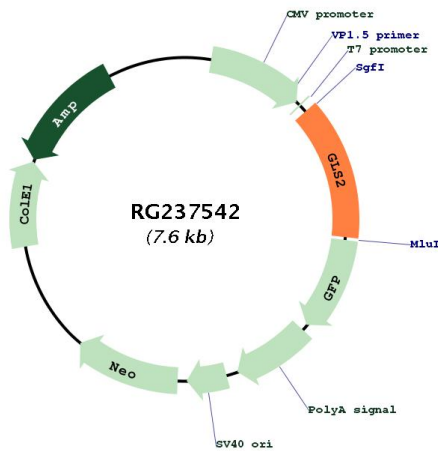
MVNAGAI VVSSL IKMDCNKA EKFDV LQYL NKMAGNEYMGFSNATFQSEKETGDRNYAIGYYLKEKKCF
 PKGVDMMALDL YFQLCSVEVTCESGSVMAATLANGGICPITGESVLSAEAVRNTLSLMHSCGMYDFSG
 QFAFHVGLPAKSAVSGA ILLVVPNVMGMMCLSPPLDKLGNSHRGTSFCQKLVSLFNFNHYDNLRHCAK
 LDPREGAEIRNKTVVNL LFAAYS GDVSALRRFAL SAMDMEQKDYDSRTALHVA AAEHIEVVKFLIEA
 CKVNPFAKDRWGNIP LDDAVQFNHLEVKLLQDYQDSYTLSETQAEAAAEALSKENLESMV
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYP SGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001280798

ORF Size:	1011 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).
RefSeq:	NM_001280798.1 , NP_001267727.1
RefSeq Size:	2296 bp
RefSeq ORF:	1014 bp
Locus ID:	27165
UniProt ID:	Q9UI32
Cytogenetics:	12q13.3
Protein Pathways:	Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, D-Glutamine and D-glutamate metabolism, Metabolic pathways, Nitrogen metabolism
MW:	37.5 kDa
Gene Summary:	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]