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Product datasheet for SC335352

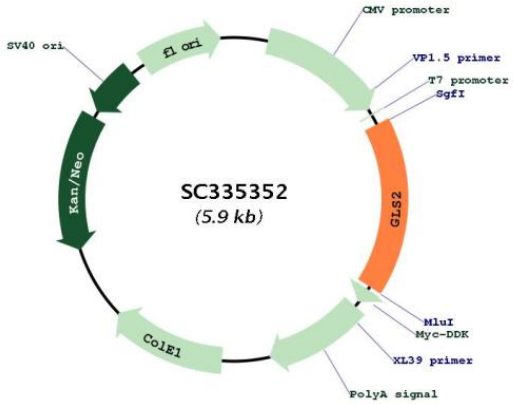
GLS2 (NM_001280796) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLS2 (NM_001280796) 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:	>SC335352 representing NM_001280796. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGAATACATGGGTTTCAGCAATGCCACGGAAGGTAATTTTTCCCCTTCTCCCAACACCCACTCCTCCA ACTTCAAGTACTAAATTGGGTGTTTGCTTCAGATTCCAGTCAGAGAAGGAAACAGGGGATCGGAATTAT GCCATCGGCTATTATCTCAAGGAAAAGAAGTGCTTTCCTAAGGGGGTGGACATGATGGCTGCCCTTGAT CTCTACTTCCAGCTGTGTTCTGTGGAGGTCACTTGTGAATCAGGCAGTGTCATGGCAGCCACCCTCGCC AACGGTGGGATCTGCCCCATCACAGGCGAGAGTGTGCTGAGTGCTGAAGCAGTGCGCAACACCCTCAGC CTCATGCATTCCTGCGGCATGTATGACTTCTCTGGCCAGTTTGCCTTCCACGTGGGCCTGCCAGCCAAG TCAGCTGTATCAGGAGCCATCCTCCTGGTGGTACCCAATGTCATGGGAATGATGTGCCTGTCACCCCCA TTGGACAAGCTGGGGAACAGCCATAGGGGGACCAGCTTCTGCCAGAAGTTGGTGTCTCTCTTCAATTTC CACAACTATGACAACCTGAGGCACTGTGCTCGGAAGTTAGACCCACGGCGTGAAGGGGCAGAAATTCGG AACAAGACTGTGGTCAACCTGTTATTTGCTGCCTATAGTGGCGATGTCTCAGCTCTTCGAAGGTTTGCC TTGTCAGCCATGGATATGGAACAGAAAGACTATGACTCGCGCACAGCTCTGCATGTTGCTGCAGCTGAA GGACACATCGAAGTTGTTAAATTCCTGATCGAGGCTTGCAAAGTGAATCCTTTTGCCAAGGACAGGTGG GGCAACATTCCCCTGGATGATGCTGTGCAGTTCAACCATCTGGAGGTGGTCAAACTGCTTCAAGATTAC CAGGACTCCTACACACTCTCTGAAACTCAGGCTGAGGCAGCAGCTGAGGCCCTGTCCAAAGAGAACTTA GAAAGCATGGTATGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

View online »

Plasmid Map:



ACCN:	NM_001280796
Insert Size:	981 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_001280796.1
RefSeq Size:	2721 bp
RefSeq ORF:	981 bp
Locus ID:	27165
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:	35.9 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] Transcript Variant: This variant (3) differs in the 5' UTR and 5' coding region, uses an alternate start codon, and uses an alternate in-frame splice site in the 5' coding region compared to variant 1. It encodes isoform 3 which has a distinct and shorter N-terminus compared to isoform 1.