

OriGene Technologies, Inc.

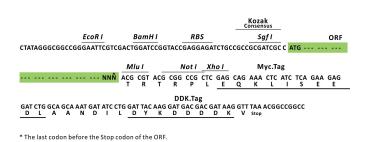
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product datasheet for RC204039L1

Glutamine Synthetase (GLUL) (NM_001033056) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glutamine Synthetase (GLUL) (NM_001033056) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Glutamine Synthetase
Synonyms:	GLNS; GS; PIG43; PIG59
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC204039).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GC C ATG / / NNÑ ACG CGT



ACCN: NM_001033056 ORF Size: 1119 bp



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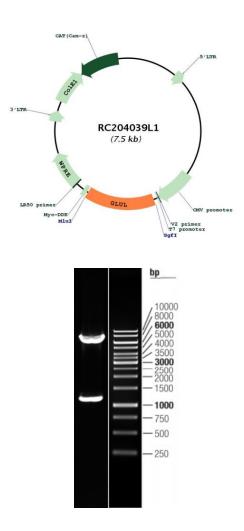
	amine Synthetase (GLUL) (NM_001033056) Human Tagged Lenti ORF Clone – RC204039L1
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
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).
Reconstitution Method	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001033056.1, NP 001028228.1</u>
RefSeq Size:	4083 bp
RefSeq ORF:	1122 bp
Locus ID:	2752
UniProt ID:	<u>P15104</u>
Cytogenetics:	1q25.3
Protein Pathways:	Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, Metabolic pathways, Nitrogen metabolism
MW:	42.1 kDa

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Gene Summary:The protein encoded by this gene belongs to the glutamine synthetase family. It catalyzes the
synthesis of glutamine from glutamate and ammonia in an ATP-dependent reaction. This
protein plays a role in ammonia and glutamate detoxification, acid-base homeostasis, cell
signaling, and cell proliferation. Glutamine is an abundant amino acid, and is important to the
biosynthesis of several amino acids, pyrimidines, and purines. Mutations in this gene are
associated with congenital glutamine deficiency, and overexpression of this gene was
observed in some primary liver cancer samples. There are six pseudogenes of this gene
found on chromosomes 2, 5, 9, 11, and 12. Alternative splicing results in multiple transcript
variants. [provided by RefSeq, Dec 2014]

Product images:



Circular map for RC204039L1

Double digestion of RC204039L1 using Sgfl and Mlul

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