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Product datasheet for RC206265L2V

Glutaminase (GLS) (NM_014905) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Glutaminase (GLS) (NM_014905) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Glutaminase
Synonyms:	AAD20; CASGID; DEE71; EIEE71; GAC; GAM; GDPAG; GLS1; KGA
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_014905
ORF Size:	2007 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC206265).`
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.
RefSeq:	NM_014905.2
RefSeq Size:	4799 bp
RefSeq ORF:	2010 bp
Locus ID:	2744
UniProt ID:	O94925
Cytogenetics:	2q32.2
Domains:	ANK, Glutaminase

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Protein Pathways:	Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, D-Glutamine and D-glutamate metabolism, Metabolic pathways, Nitrogen metabolism
MW:	73.3 kDa
Gene Summary:	This gene encodes the K-type mitochondrial glutaminase. The encoded protein is an phosphate-activated amidohydrolase that catalyzes the hydrolysis of glutamine to glutamate and ammonia. This protein is primarily expressed in the brain and kidney plays an essential role in generating energy for metabolism, synthesizing the brain neurotransmitter glutamate and maintaining acid-base balance in the kidney. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]

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