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Product datasheet for RC207915L3V

GCLC (NM_001498) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	GCLC (NM_001498) Human Tagged ORF Clone Lentiviral Particle
Symbol:	GCLC
Synonyms:	GCL; GCS; GLCL; GLCLC
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001498
ORF Size:	1911 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC207915).
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_001498.2
RefSeq Size:	3823 bp
RefSeq ORF:	1914 bp
Locus ID:	2729
UniProt ID:	P48506
Cytogenetics:	6p12.1
Domains:	GCS
Protein Families:	Druggable Genome

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Protein Pathways: Glutathione metabolism, Metabolic pathways

MW: 72.8 kDa

Gene Summary: Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase is the first rate-limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. This locus encodes the catalytic subunit, while the regulatory subunit is derived from a different gene located on chromosome 1p22-p21. Mutations at this locus have been associated with hemolytic anemia due to deficiency of gamma-glutamylcysteine synthetase and susceptibility to myocardial infarction.[provided by RefSeq, Oct 2010]

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