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Product datasheet for RC211292L4V

GLDC (NM_000170) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	GLDC (NM_000170) Human Tagged ORF Clone Lentiviral Particle
Symbol:	GLDC
Synonyms:	GCE; GCSP; HYGN1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_000170
ORF Size:	3060 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC211292).
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_000170.1
RefSeq Size:	3783 bp
RefSeq ORF:	3063 bp
Locus ID:	2731
UniProt ID:	P23378
Cytogenetics:	9p24.1
Domains:	GDC-P
Protein Families:	Druggable Genome

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Protein Pathways: Glycine, serine and threonine metabolism, Metabolic pathways

MW: 112.73 kDa

Gene Summary: Degradation of glycine is brought about by the glycine cleavage system, which is composed of four mitochondrial protein components: P protein (a pyridoxal phosphate-dependent glycine decarboxylase), H protein (a lipoic acid-containing protein), T protein (a tetrahydrofolate-requiring enzyme), and L protein (a lipoamide dehydrogenase). The protein encoded by this gene is the P protein, which binds to glycine and enables the methylamine group from glycine to be transferred to the T protein. Defects in this gene are a cause of nonketotic hyperglycinemia (NKH).[provided by RefSeq, Jan 2010]