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Product datasheet for RC230092L3V

GCAT (NM_001171690) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	GCAT (NM_001171690) Human Tagged ORF Clone Lentiviral Particle
Symbol:	GCAT
Synonyms:	KBL
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_001171690
ORF Size:	1335 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC230092).
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. <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.
RefSeq:	<u>NM 001171690.1, NP 001165161.1</u>
RefSeq ORF:	1338 bp
Locus ID:	23464
UniProt ID:	<u>075600</u>
Cytogenetics:	22q13.1
Protein Pathways:	Glycine, serine and threonine metabolism
MW:	48.4 kDa



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Gene Summary:The degradation of L-threonine to glycine consists of a two-step biochemical pathway
involving the enzymes L-threonine dehydrogenase and 2-amino-3-ketobutyrate coenzyme A
ligase. L-Threonine is first converted into 2-amino-3-ketobutyrate by L-threonine
dehydrogenase. This gene encodes the second enzyme in this pathway, which then catalyzes
the reaction between 2-amino-3-ketobutyrate and coenzyme A to form glycine and acetyl-
CoA. The encoded enzyme is considered a class II pyridoxal-phosphate-dependent
aminotransferase. Alternate splicing results in multiple transcript variants. A pseudogene of
this gene is found on chromosome 14. [provided by RefSeq, Jan 2010]

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