

## Product datasheet for **RC200446L2V**

### OGDH (NM\_002541) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	OGDH (NM_002541) Human Tagged ORF Clone Lentiviral Particle
Symbol:	OGDH
Synonyms:	AKGDH; E1k; KGD1; OGDC; OGDH2
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_002541
ORF Size:	3069 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200446).
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. <a href="#">More info</a>
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:	<a href="#">NM_002541.2</a>
RefSeq Size:	4319 bp
RefSeq ORF:	3072 bp
Locus ID:	4967
UniProt ID:	<a href="#">Q02218</a>
Cytogenetics:	7p13
Domains:	E1_dehydrog, transket_pyr
Protein Families:	Druggable Genome



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**Protein Pathways:** Citrate cycle (TCA cycle), Lysine degradation, Metabolic pathways, Tryptophan metabolism

**MW:** 115.9 kDa

**Gene Summary:** This gene encodes one subunit of the 2-oxoglutarate dehydrogenase complex. This complex catalyzes the overall conversion of 2-oxoglutarate (alpha-ketoglutarate) to succinyl-CoA and CO<sub>2</sub> during the Krebs cycle. The protein is located in the mitochondrial matrix and uses thiamine pyrophosphate as a cofactor. A congenital deficiency in 2-oxoglutarate dehydrogenase activity is believed to lead to hypotonia, metabolic acidosis, and hyperlactatemia. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Sep 2009]