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Product datasheet for RC201077L3V

IVD (NM_002225) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	IVD (NM_002225) Human Tagged ORF Clone Lentiviral Particle
Symbol:	IVD
Synonyms:	ACAD2; IVDH
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_002225
ORF Size:	1269 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC201077).
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_002225.2
RefSeq Size:	4673 bp
RefSeq ORF:	1272 bp
Locus ID:	3712
UniProt ID:	P26440
Cytogenetics:	15q15.1
Domains:	Acyl-CoA_dh, Acyl-CoA_dh_M, Acyl-CoA_dh_N
Protein Families:	Druggable Genome

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Protein Pathways: Metabolic pathways, Valine, leucine and isoleucine degradation

MW: 46.2 kDa

Gene Summary: Isovaleryl-CoA dehydrogenase (IVD) is a mitochondrial matrix enzyme that catalyzes the third step in leucine catabolism. The genetic deficiency of IVD results in an accumulation of isovaleric acid, which is toxic to the central nervous system and leads to isovaleric acidemia. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2017]