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Product datasheet for RC205212L4V

SUCLA2 (NM_003850) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	SUCLA2 (NM_003850) Human Tagged ORF Clone Lentiviral Particle
Symbol:	SUCLA2
Synonyms:	A-BETA; A-SCS; LINC00444; MTDPS5; SCS-betaA
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_003850
ORF Size:	1389 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC205212).`
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_003850.1
RefSeq Size:	2182 bp
RefSeq ORF:	1392 bp
Locus ID:	8803
UniProt ID:	Q9P2R7
Cytogenetics:	13q14.2
Domains:	ATP-grasp, ligase-CoA
Protein Pathways:	Citrate cycle (TCA cycle), Metabolic pathways, Propanoate metabolism

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MW: 50.3 kDa

Gene Summary: Succinyl-CoA synthetase (SCS) is a mitochondrial matrix enzyme that acts as a heterodimer, being composed of an invariant alpha subunit and a substrate-specific beta subunit. The protein encoded by this gene is an ATP-specific SCS beta subunit that dimerizes with the SCS alpha subunit to form SCS-A, an essential component of the tricarboxylic acid cycle. SCS-A hydrolyzes ATP to convert succinate to succinyl-CoA. Defects in this gene are a cause of myopathic mitochondrial DNA depletion syndrome. A pseudogene of this gene has been found on chromosome 6. [provided by RefSeq, Jul 2008]