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Product datasheet for MR207232L4V

Acot2 (NM_134188) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Acot2 (NM_134188) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Acot2
Synonyms:	AA571646; MTE-I; Mte1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_134188
ORF Size:	1359 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR207232).
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_134188.3, NP_598949.3
RefSeq Size:	2215 bp
RefSeq ORF:	1362 bp
Locus ID:	171210
UniProt ID:	Q9QYR9
Cytogenetics:	12 D1

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Gene Summary: Acyl-CoA thioesterases are a group of enzymes that catalyze the hydrolysis of acyl-CoAs to the free fatty acid and coenzyme A (CoASH), providing the potential to regulate intracellular levels of acyl-CoAs, free fatty acids and CoASH (PubMed:25114170). Acyl-coenzyme A thioesterase 2/ACOT2 displays higher activity toward long chain acyl CoAs (C14-C20) (PubMed:25114170). The enzyme is involved in enhancing the hepatic fatty acid oxidation in mitochondria (PubMed:25114170).[UniProtKB/Swiss-Prot Function]