

Product datasheet for RC210550L1

Acyl coenzyme A Thioesterase 4 (ACOT4) (NM_152331) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acyl coenzyme A Thioesterase 4 (ACOT4) (NM_152331) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Acyl coenzyme A Thioesterase 4
Synonyms:	PTE-Ib; PTE1B; PTE2B
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC210550).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF.

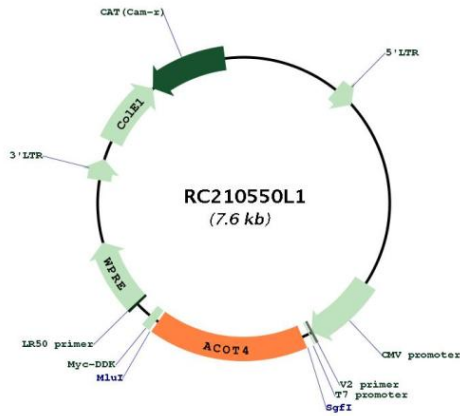
ACCN:	NM_152331
ORF Size:	1263 bp



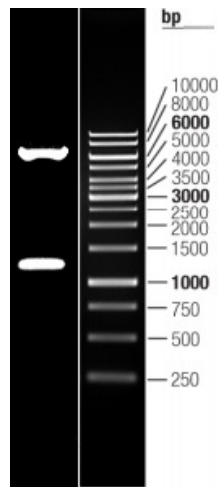
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OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), 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.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_152331.2
RefSeq Size:	1703 bp
RefSeq ORF:	1266 bp
Locus ID:	122970
UniProt ID:	Q8N9L9
Cytogenetics:	14q24.3
Protein Pathways:	Biosynthesis of unsaturated fatty acids
MW:	46.1 kDa
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:16940157). ACOT4 is a peroxisomal succinyl-coenzyme A thioesterase can also hydrolyze glutaryl-CoA and long chain saturated acyl-CoAs (PubMed:16940157).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC210550L1



Double digestion of RC210550L1 using SgfI and MluI