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Product datasheet for SC309109

ACYP2 (NM_138448) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACYP2 (NM_138448) Human Untagged Clone
Tag:	Tag Free
Symbol:	ACYP2
Synonyms:	ACYM; ACYP
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_138448 edited CCCGAGCCCCTCTCCGGCTCCTCAACAGAGGGCTCGCCGCCGCCATGTCTACCGCCCAGT CACTCAAATCCGTGGACTACGAGGTGTTCGGAAGAGTGCAGGGTGTTTGCTTCAGAATGT ATACAGAAGATGAAGCTAGGAAAATAGGAGTGGTTGGCTGGGTGAAGAATACCAGCAAAG GCACCGTGACAGGCCAAGTGCAGGGGCCAGAAGACAAAGTCAATTCCATGAAGTCCTGGC TGAGCAAGGTTGGAAGCCCTAGTTCTCGCATTGACCGCACAAACTTTTCTAATGAAAAAA CCATCTCTAAGCTTGAATACTCTAATTTTAGTATTAGATACTAATAGAAGAGAAAAATTG TAACACACTGAACAATAGATACTGTATGTTCTTAAGACTATGTATACTAGAATAATAGTA GCAGAGTAGGGTGAAAAGGAACTTTCTGTTCTGAAAGCTAAGCGACTGTACGTGCTACTA AAAATGTCTGACACTGAAATAATTTTACTCAACTATGTTTTCAACAAGCAAAAATATAGT ATTCTAAGATTAAAATGTCATTACAAAATATTTAGTGTGAACATTTAATTTAAACTTGTC TCATGGAATCTTTAATTTCAATGAACATTACAGCATATATATGTTATTTGGCGAGACATC AAATAAAGTTAACCATTTAAAAATTAAAAAAAAAAAAAAAA
Restriction Sites:	ECoRI-NOT
ACCN:	NM_138448
Insert Size:	700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_138448.3.

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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:	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_138448.2, NP_612457.1
RefSeq Size:	1082 bp
RefSeq ORF:	300 bp
Locus ID:	98
UniProt ID:	P14621
Cytogenetics:	2p16.2
Protein Pathways:	Pyruvate metabolism
Gene Summary:	Acylphosphatase can hydrolyze the phosphoenzyme intermediate of different membrane pumps, particularly the Ca2+/Mg2+-ATPase from sarcoplasmic reticulum of skeletal muscle. Two isoenzymes have been isolated, called muscle acylphosphatase and erythrocyte acylphosphatase on the basis of their tissue localization. This gene encodes the muscle-type isoform (MT). An increase of the MT isoform is associated with muscle differentiation. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2016] Transcript Variant: This variant (3) represents use of an alternate promoter and therefore differs in the 5' UTR and 5' coding region compared to variant 1. The resulting isoform (3) has a shorter and distinct N-terminus compared to isoform 1.