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Product datasheet for SC128137

FACL4 (ACSL4) (NM_004458) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FACL4 (ACSL4) (NM_004458) Human Untagged Clone
Tag:	Tag Free
Symbol:	FACL4
Synonyms:	ACS4; FACL4; LACS4; MRX63; MRX68
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF: >NCBI ORF sequence for NM_004458, the custom clone sequence may differ by one or more nucleotides

ATGGCAAAGAGAATAAAAGCTAAGCCCACTTCAGACAAACCTGGAAGTCCATATCGCTCTGTCACACACT
TCGACTCACTAGCTGTAATAGACATCCCTGGAGCAGATACTCTGGATAAATTATTTGACCATGCTGTATC
CAAGTTTGGGAAGAAGGACAGCCTTGGGACCAGGGAAATCCTAAGTGAAGAAAATGAAATGCAGCCAAAT
GGAAAAGTTTTTAAGAAGTTAATTCTTGGGAATTATAAATGGATGAACTATCTTGAAGTGAATCGCAGAG
TGAATAACTTTGGTAGTGGACTCACTGCACTGGGACTAAAACCAAAGAACACCATTGCCATCTTCTGTGA
GACCAGGGCCGAATGGATGATTGCAGCACAGACCTGCTTTAAGTACAACTTTCCTCTTGTGACTTTATAT
GCCACACTTGGCAAAGAAGCAGTAGTTCATGGGCTAAATGAATCTGAGGCTTCCTATCTGATTACCAGTG
TTGAACTTCTGGAAAGTAAACTTAAGACTGCATTGTTAGATATCAGTTGTGTTAAACATATCATTTATGT
GGACAATAAGGCTATCAATAAAGCAGAGTACCCTGAAGGATTTGAGATTCACAGCATGCAATCAGTAGAA
GAGTTGGGATCTAACCCAGAAAACTTGGGCATTCCTCCAAGTAGACCAACGCCTTCAGACATGGCCATTG
TTATGTATACTAGTGGTTCTACTGGCCGACCTAAGGGAGTGATGATGCATCATAGCAATTTGATAGCTGG
AATGACAGGCCAGTGTGAAAGAATACCTGGACTGGGACCGAAGGACACATATATTGGCTACTTGCCTTTG
GCTCATGTGCTAGAACTGACAGCAGAGATATCTTGCTTTACCTATGGCTGCAGGATTGGATATTCTTCTC
CGCTTACACTCTCTGACCAGTCCAGCAAAATTAAAAAAGGAAGCAAAGGAGACTGTACTGTACTGAAGCC
CACACTTATGGCTGCTGTTCCGGAAATCATGGATAGAATTTATAAGAATGTTATGAGCAAAGTCCAAGAG
ATGAATTATATTCAGAAAACTCTGTTCAAGATAGGGTATGATTACAAATTGGAACAGATCAAAAAGGGAT
ATGATGCACCTCTTTGCAATCTGTTACTGTTTAAAAAGGTCAAGGCCCTGCTGGGAGGGAATGTCCGCAT
GATGCTGTCTGGAGGGGCCCCGCTATCTCCTCAGACACACCGATTCATGAATGTCTGCTTCTGCTGCCCA
ATTGGCCAGGGTTATGGACTGACAGAATCATGTGGTGCTGGGACAGTTACTGAAGTAACTGACTATACTA
CTGGCAGAGTTGGAGCACCTCTTATTTGCTGTGAAATTAAGCTAAAAGACTGGCAAGAAGGCGGTTATAC
AATTAATGACAAGCCAAACCCCAGAGGTGAAATCGTAATTGGTGGACAGAACATCTCCATGGGATATTTT
AAAAATGAAGAGAAAACAGCAGAAGATTATTCTGTGGATGAAAATGGACAAAGGTGGTTTTGCACTGGTG
ATATTGGAGAATTCCATCCCGATGGATGTTTACAGATTATAGATCGTAAGAAAGATCTAGTGAAGTTACA
AGCAGGAGAGTATGTATCTCTTGGGAAAGTAGAAGCTGCACTGAAGAATTGTCCACTTATTGACAACATC
TGTGCTTTTGCCAAAAGTGATCAGTCCTATGTGATCAGTTTTGTGGTTCCTAACCAGAAAAGGTTGACAC
TTTTGGCACAACAGAAAGGGGTAGAAGGAACTTGGGTTGATATCTGCAATAATCCTGCTATGGAAGCTGA
AATACTGAAAGAAATTCGAGAAGCTGCAAATGCCATGAAATTGGAGCGATTTGAAATTCCAATCAAGGTT
CGATTAAGCCCAGAGCCATGGACCCCTGAAACTGGTTTGGTAACTGATGCTTTCAAACTGAAAAGGAAGG
AGCTGAGGAACCATTACCTCAAAGACATTGAACGAATGTATGGGGGCAAATAA

Restriction Sites: Please inquire

ACCN: NM_004458

Insert Size: 4700 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).

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_004458.1, NP_004449.1
RefSeq Size:	5043 bp
RefSeq ORF:	2013 bp
Locus ID:	2182
UniProt ID:	O60488
Cytogenetics:	Xq23
Domains:	AMP-binding
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Adipocytokine signaling pathway, Fatty acid metabolism, Metabolic pathways, PPAR signaling pathway
Gene Summary:	The protein encoded by this gene is an isozyme of the long-chain fatty-acid-coenzyme A ligase family. Although differing in substrate specificity, subcellular localization, and tissue distribution, all isozymes of this family convert free long-chain fatty acids into fatty acyl-CoA esters, and thereby play a key role in lipid biosynthesis and fatty acid degradation. This isozyme preferentially utilizes arachidonate as substrate. The absence of this enzyme may contribute to the cognitive disability or Alport syndrome. Alternative splicing of this gene generates multiple transcript variants. [provided by RefSeq, Jan 2016] Transcript Variant: This variant (1) encodes isoform 1. Variants 1 and 4 encode the same isoform (1).