

Product datasheet for **SC109208**

FACL4 (ACSL4) (NM_022977) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FACL4 (ACSL4) (NM_022977) Human Untagged Clone
Tag:	Tag Free
Symbol:	FACL4
Synonyms:	ACS4; FACL4; LACS4; MRX63; MRX68
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC109208 sequence for NM_022977 edited (data generated by NextGen Sequencing)

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ATGAACTTAAGCTAAATGTGCTCACCATTATTTTGTGCCTGTCCACTTGTTAATAACA
ATATACAGTGCCCTTATATTTATTCATGGTATTTTCTTACCAATGCCAAGAAGAAAAAC
GCTATGGCAAAGAGAATAAAGCTAAGCCCACTCAGACAAACCTGGAAGTCCATATCGC
TCTGTACACACTTCGACTCACTAGCTGTAATAGACATCCCTGGAGCAGATACTTGGAT
AAATTATTTGACCATGCTGTATCCAAGTTTGGGAAGAAGGACAGCCTTGGGACCAGGGAA
ATCCTAAGTGAAGAAAAATGAAATGCAGCCAAATGGAAAAGTTTTTAAGAAGTTAATTCTT
GGGAATTATAAATGGATGAACTATCTTGAAGTGAATCGCAGAGTGAATAACTTTGGTAGT
GGACTCACTGCACTGGGACTAAAACCAAAGAACCATTGCCATCTTCTGTGAGACCAGG
GCCGAATGGATGATTGCAGCACAGACCTGCTTTAAGTACAACCTTCTCTTGTGACTTTA
TATGCCCACTTTGGCAAAGAAGCAGTAGTTCATGGGCTAAATGAATCTGAGGCTTCTAT
CTGATTACCAGTGTGAACTTCTGGAAAGTAACTTAAGACTGCATTGTTAGATATCAGT
TGTGTTAAACATATCATTATGTGGACAATAAGGCTATCAATAAAGCAGAGTACCCTGAA
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TCTACTGGCCGACCTAAGGGAGTGATGATGCATCATAGCAATTTGATAGCTGGAATGACA
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AATAATCTGCTATGGAAGCTGAAATACTGAAAGAAATTCGAGAAGCTGCAATGCCATG
AAATTGGAGCGATTTGAAATCCAATCAAGGTTTCGATTAAGCCCAGAGCCATGGACCCCT
GAAACTGGTTTGGTAACTGATGCTTTCAAACGAAAAGGAAGGAGCTGAGGAACCATTAC
CTCAAAGACATTGAACGAATGTATGGGGCAAATAA

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Clone variation with respect to NM_022977.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022977 unedited
 AGCATTTTGTAAACGACTCACTTATAGGGCGGCCGCGATTTCGGCACCAGGCCGCTGCGG
 CTTTTTCTCTGGCCTCCGCCGCGCGCTCCTCCTCGTCCCAGCGCTAGCGGGCACGCGGTT
 CCTTTTTCGAGCTTTCCGAGTGCCAGGCGCCGGCCGGCTGCGAAGACCGGTTGGGCCGC
 CCCTCCGGCGTACTTTATGTGCGCTTCCAAAGATTACTAACTTTTATCTGTATCACTAA
 GATTGAACTGCCTGGCTGTACTGTCTTACTGCTGCTTCTATTATTGCCTTCTTCA
 GCACAATAAGGCTTTCAAAGCCAAAGAATAACAAGAAATAAGCACCATTTTAGAAGCCT
 TTCCACTATGAAACTTAAGCTAAATGTGCTCACCATTATTTGCTGCCTGTCCACTTGT
 AATAACAATATACAGTGCCTTATATTTTCCATGGTATTTTCTACCAATGCCAAGAA
 GAAAAACGCTATGGCAAAGAGAATAAAAGCTAAGCCCACTTCAGACAAACCTGGAAGTCC
 ATATCGCTCTGTACACACTTCGACTCACTAGCTGTAATAGACATCCCTGGAGCAGATAC
 TCTGGATAAATTATTTGACCATGCTGTATCCAAGTTTGGGAAGAAGACAGCCTTGGGAC
 CAGGGAATCCTAAGTGAAGAAAATGAAATGCAGCCAAATGGAAAAGTNTTAAGAAGTT
 AATTCTTGGGAATTATAATGGATGAACATCTTGAAGTGAATCGCAGAGTGAATAACTT
 TGGTAGTGGACTCACTGCCTGNGACTAANACCAAAGACACCATTGCCATCTTCTGTGAG
 AACCAGGCCGAATGGATGATTGCAGCACAGACCTGCTNTAAGTACAAACTNCTCTGTG
 ACTTTTATGCCCACTTGCAAGAAGCAGTAGTTATGGGCTAATGATCTGAGCTTCTACT
 GAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022977 unedited
 GCCGCAATTCACAGTCGAGCNCTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGA
 ACATGGGGGATTTATTTCTTAAAATTTGAGGGCAAACCTAAAAACCCGAACAAACAAG
 CTTTTATCCAGAATAAACACAAAATCTAAACAATTCTGCCATTCTGCCTTTCAACACAA
 AGCCCAAATCTCAACCCATTCTAACTTGCCCTGCCCTCAAACCCCAAATATTCGCTTC
 CCCCCCATAAGTCATACCCCTTTTCTCTGCCCCCCCCCCCCGCCCCCTCCCATTTTCC
 AAATCTGCTCCCCCATAAACACCGCCCACTTCCCCCCCCCGCCCTCCTCCCCAAACTA
 TTCCTTCCCCCTCCACCTCCCTCCCTCCTCATCCTATCTCCCTCCCCGCCACTGA
 CCTCGCCCCCTACCACTGCTCCCTACCTATCCTCCCTCATCTTCTTCTCCTCCTCTA
 GCTCCCTTTTATCCCCCACTCCCCCTTCAACCCCCCCCCCCAAACATACTCCCCCCCC
 CATATAACCCCATACCTCCCCCTTCCCCCACTTCCCCCTTCCCTACTTTCTTCCCCC
 CTAATCCCCCCTTTTTTCCGCCCCCTCTCCCCCCTTTCTCCCCCCTTTTTTCCCC
 TCCCCACCCCTTCTTCTTCTATTTTTTCCGCCCCCTTCAACCCCATTTTCC
 CTTTCTCATTATCCACCCGCTTTTCCCTTACACCTCCCCCCCCCATTTTACCCCTCT
 TATTTCCCCCATTTCCCATCCCCACTCACTACTTTATCTCCCACCCACCTTTACCTTTT
 TCCTCCCACACGCCCCCCCCACTTTTTTTCCACCATCCCCACCTTTCCCTTTCCACC
 CGTCACCGCGCCACCTTTGACAATCAATTCAATCCCCACCCCTTACCCCGCGTTT
 TTCTATCCCCGCCACATTCCCCCCCCCGTTTTATCCCACCCCTTCTCTTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_022977

Insert Size:

5230 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:	<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_022977.1 , NP_075266.1
RefSeq Size:	5356 bp
RefSeq ORF:	2136 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:	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and 5' coding region compared to variant 1. The encoded isoform (2) has a longer N-terminus compared to isoform 1. Variants 2 and 3 encode the same isoform (2).</p>