

Product datasheet for **SC122956**

FA2H (NM_024306) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FA2H (NM_024306) Human Untagged Clone
Tag:	Tag Free
Symbol:	FA2H
Synonyms:	FAAH; FAH1; FAXDC1; SCS7; SPG35
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_024306 edited
AGCAGACGCCGGGCTGCGCGCTGGGAGCTGCGGTCTCCGGCCATGGCCCCGCTCCGCC
CCCCGCCCTCCTTCTCGCCCTCCGAGGTCCAGCGGCGCCTGGCGGCCGGCGCGTGTGG
GTCCGCCCGGGGGCCCGCTCTACGACCTCTCCAGCTTCGTGCGGCACCACCCGGGGGC
GAGCAGTGTGCGGGCCAGGGCGGGCCAGGACATCAGCGCCGACCTGGACGGGCCGCCG
CACAGGCACTCGGCCAACGCGCGCCGCTGGCTGGAGCAGTACTACGTGGGAGAGCTCCGC
GGGAGCAGCAGGGCTCCATGGAGAACGAGCCTGTAGCCCTTGAGGAACTCAGAAGACA
GATCCTGCTATGGAACACGGTTCAAAGTGGTGGATTGGGACAAGGACCTGGTGGACTGG
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CAGCCGGTGACCAGGCCATCCGCCTCTTCCACTCAGACCTCATTGAGGGCCTCTCTAAG
ACTGTCTGGTACAGTGTCCCATCATCTGGGTGCCCTGGTGTGTATCTCAGCTGGTCC
TACTACCGAACCTTTGCCAGGGCAACGTCGACTCTTACGTCATTTACAACAGAGTAC
ACGGTGGCAGTGCCCAAGTCCATGTTCCCGGGCTCTTCATGCTGGGACATTCTCTGG
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TATTACCTCATATGCTGCATTCGTGATGCACGCGCCAGCACCACAAGGCACCCTTCGAC
GGCTCCCGCTGTGCTTCCCCCTGTGCCAGCCTCCCTGGTGTGATCGGCGTCTTCTACTTG
TGCATGCAGCTCATCCTGCCTGAGGCAGTAGGGGGCACTGTGTTGCGGGGGGCCTCCTG
GGCTACGTCTCTATGACATGACCCATTACTACCTGCACTTTGGCTCGCCGCACAAGGGC
TCCTACCTGTACAGCCTGAAGGCCACCACGTC AAGCACCACCTTGCACATCAGAAGTCA
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CCCCACCTGAAGACGCAGTGACAACCTCCACCCCTCCGTCTGCCCTCAGCCCGGCCCT
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CAGGATGGGCTGTGTCGGCCCTGCAGCCTAGTGGAAAGTGTGAGGGGGCCCTGAGGCA
GGACCGCCTCCTGACCCCTGGTAGGAGGTCACATCCACTTGGTGGCCAGGTGGCCCTT
GGTGACCACTTCTTCTGGAGCGTCCCTGCCTAGAGCTCAGCCACAGGACTGCTTCAG
GCCGTGGCCACAGGTAGCAGCCGCAAGGGGAAATGAAGAAAAGTGAAGCCCTCGTGGCCAC
CTGTGTCACCCTTGTGCCTTAGCCTCATGGGCTGCCTAGGAGCTGCCTGCACGGCACAGC
TCGCTTTCACAGTCAGAAGTGGTCTGTGGATCTGTGGTCCCTGTCTCCCTGTGTCC
CTTCTGGGAGGCTTTGGTGGCTCTGAGGTGGACAAAGAGCTCTCGCAAGAAGAGACAGC
GTGATGCCTCCACAGTCCACCCAGACCCTGGGGCAGCCCTCTGGCCCTGCCAGCTGC
CTGCGTGTGGGCCAGGGTGGCTGGCAGGAGTCCAGCTGCTTGTCTTAGGACCTCGC
AGCTTTTCTTGCCGTCCCTCCCTGCCTCCAGAATCACAGCCCTTCTCCCAAGGGAGGC
TGAGGAGGCTTCTCCACAGTGGCAGCCCAACCCGTCCTGGCCATTCTTGGCCTCCAC
CCCGCTCAGGCCCTACTCGGGCGCTCCAGAAGGAGCCACCTCTCAGTGCCTCACCTCC
CCCTGCCTCCAGCCTCCGCAGATGAGGTTCTGCCCCTTCTCTCTCGTAACCAAAACCC
TCACTGCTCCAGGACGGTCTTATTTATAAACCAGATACATGTTCTTAGTCTGGTCCCAG
ACCAAGGAGCTGGTCAGACGGCCCTTTCTAATCCTACATGTTGAGCTTATGTAATAAATG
TTGTTTCTCCTGTTTTTGGTTCCTTTCTACCCACAAACCATTACTACTGAAACTTAA
AAAACTCGCCAAGTGTAAAGCTAAAGAGAAGCAGTTTGACGGACCTTGTGATTTGTA
GTTTGCTGCGGAGCTATTTAAAGATTTTGAATAAATATACAAAACACGTTTGTGAAAT
AAAACTTAAATTGTATATTTTGAATAAATAAACAACACTGAAAAGAAACCAAAAAAAAAA
AAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_024306 unedited NAACGTGAGAATTGTATACGACTCATATAGGCGGCCGNGAATTCGCACGAGGAGCAGAC GCCGGGCTGCGCGCTGGGAGCTGCGGTCTCCGGCCATGGCCCCGCTCCGCCCCCGCCG CCTCCTTCTCGCCCTCCGAGGTCAAGCGGCGCCTGGCGGCCGGCGCGTGTGGGTCCGCC GCGGGGCCCGCTCTACGACCTCTCCAGTTCGTGCGGCACCACCCGGGGGGCGAGCAGC TGCTGCGGGCCAGGGCGGCCAGGACATCAGCGCCGACCTGGACGGGCCCGCCACAGGC ACTCGGCCAACGCGCGCCGCTGGCTGGAGCAGTACTACGTGGGAGAGCTCCGCGGGGAGC AGCAGGGCTCCATGGAGAACGAGCCTGTAGCCCTTGAGGAACTCAGAAGACAGATCCTG CTATGGAACACGGTTCAAAGTGGTGGATTGGGACAAGGACCTGGTGGACTGGCGAAAGC CTCTCCTGTGGCAGGTGGGCCACTTGGGAGAGAAGTACGATGAGTGGGTTACCAGCCGG TGACCAGGCCATCCGCCTTCCACTCAGACCTATTGAGGGCCTCTAAGACTGTCT GGTACAGTGTCCCATCATCTGGGTGCCCTGGTGTGTATCTCAGTGGTCTACTACC GAACCTTTGCCAGGGCAACGTCCGACTTTCACGTATTTACAACAGAGTACACGGTGG CAGTGCCCAAGTCCATGTTCCCGGGCTTTCATGCTGGGGACATTCCTCTGGAGCCTCA TCGAGTACCTCATCCACGCTTCTGNTCCACATGAAGCCCCCAGCGACAGCTATTACC TCATCATGCTGCACTTCGTGCATGCACGGCCAGCACCAAGGCACCCCTNCGACGCTCCC GNCTGGTCTTCCCCCTGTC
Restriction Sites:	Please inquire
ACCN:	NM_024306
Insert Size:	2416 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_024306.2 , NP_077282.2
RefSeq Size:	2419 bp
RefSeq ORF:	1119 bp
Locus ID:	79152
UniProt ID:	Q7L5A8
Cytogenetics:	16q23.1
Protein Families:	Transmembrane

Gene Summary:

This gene encodes a protein that catalyzes the synthesis of 2-hydroxysphingolipids, a subset of sphingolipids that contain 2-hydroxy fatty acids. Sphingolipids play roles in many cellular processes and their structural diversity arises from modification of the hydrophobic ceramide moiety, such as by 2-hydroxylation of the N-acyl chain, and the existence of many different head groups. Mutations in this gene have been associated with leukodystrophy dysmyelinating with spastic paraparesis with or without dystonia.[provided by RefSeq, Mar 2010]