

Product datasheet for RC202093

FA2H (NM_024306) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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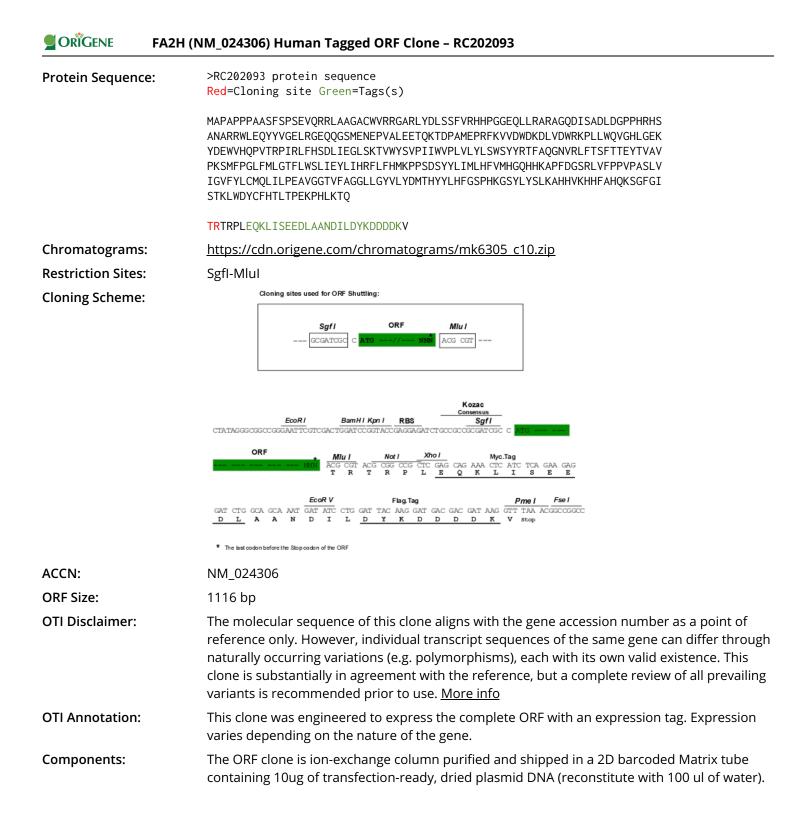
Product Type:	Expression Plasmids
Product Name:	FA2H (NM_024306) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FA2H
Synonyms:	FAAH; FAH1; FAXDC1; SCS7; SPG35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC202093 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

CGTGCTGGGTCCGCCGCGGGGCCCGCCTCTACGACCTCTCCAGCTTCGTGCGGCACCACCCGGGGGGGCGA GCAGCTGCTGCGGGCCAGGGCCGGGCCAGGACATCAGCGCCGACCTGGACGGGCCGCCGCACAGGCACTCG GCCAACGCGCGCCGCTGGCTGGAGCAGTACTACGTGGGAGAGCTCCGCGGGGAGCAGCAGGGCTCCATGG AGAACGAGCCTGTAGCCCTTGAGGAAACTCAGAAGACAGATCCTGCTATGGAACCACGGTTCAAAGTGGT GGATTGGGACAAGGACCTGGTGGACTGGCGAAAGCCTCTCCTGTGGCAGGTGGGCCACTTGGGAGAGAAG TACGATGAGTGGGTTCACCAGCCGGTGACCAGGCCCATCCGCCTCTTCCACTCAGACCTCATTGAGGGCC TCTCTAAGACTGTCTGGTACAGTGTCCCCATCATCTGGGTGCCCCTGGTGCTGTATCTCAGCTGGTCCTA CTACCGAACCTTTGCCCAGGGCAACGTCCGACTCTTCACGTCATTTACAACAGAGTACACGGTGGCAGTG CCCAAGTCCATGTTCCCCGGGCTCTTCATGCTGGGGACATTCCTCTGGAGCCTCATCGAGTACCTCATCC ACCGCTTCCTGTTCCACATGAAGCCCCCCAGCGACAGCTATTACCTCATCATGCTGCACTTCGTCATGCA CGGCCAGCACCACAAGGCACCCTTCGACGGCTCCCGCCTGGTCTTCCCCCCTGTGCCAGCCTCCCTGGTG ATCGGCGTCTTCTACTTGTGCATGCAGCTCATCCTGCCCGAGGCAGTAGGGGGCACTGTGTTTGCGGGGG GCCTCCTGGGCTACGTCCTCTATGACATGACCCATTACTACCTGCACTTTGGCTCGCCGCACAAGGGCTC CTACCTGTACAGCCTGAAGGCCCACCACGTCAAGCACCACTTTGCACATCAGAAGTCAGGATTTGGTATC AGCACTAAATTGTGGGATTACTGTTTCCACACCCTCACTCCAGAGAAACCCCACCTGAAGACGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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SA2H (NM_024306) Human Tagged ORF Clone - RC202093

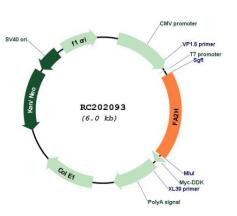
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 024306.5</u>
RefSeq Size:	2450 bp
RefSeq ORF:	1119 bp
Locus ID:	79152
UniProt ID:	<u>Q7L5A8</u>
Cytogenetics:	16q23.1
Protein Families:	Transmembrane
MW:	42.8 kDa
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]

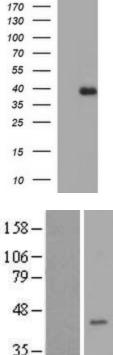
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Product images:



Circular map for RC202093

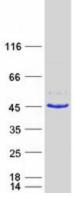


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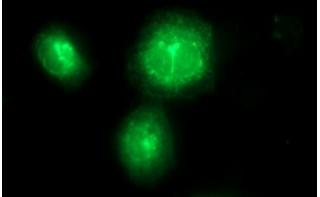
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FA2H (Cat# RC202093, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FA2H (Cat# [TA506818]). Positive lysates [LY411325] (100ug) and [LC411325] (20ug) can be purchased separately from OriGene.

Western blot validation of overexpression lysate (Cat# [LY411325]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202093 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified FA2H protein (Cat# [TP302093]). The protein was produced from HEK293T cells transfected with FA2H cDNA clone (Cat# RC202093) using MegaTran 2.0 (Cat# [TT210002]).



Immunofluorescent staining of COS7 cells transiently transfected with pCMV6-ENTRY FA2H (RC202093) by using Anti-FA2H mouse monoclonal antibody ([TA506818]) at 1:100 dilutions.

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