*h*FATP2 VersaClone cDNA

Catalog Number: RDC0477

Specifications:

Gene:	*h*FATP2
Accession:	AAC64973
Insert size:	1876bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

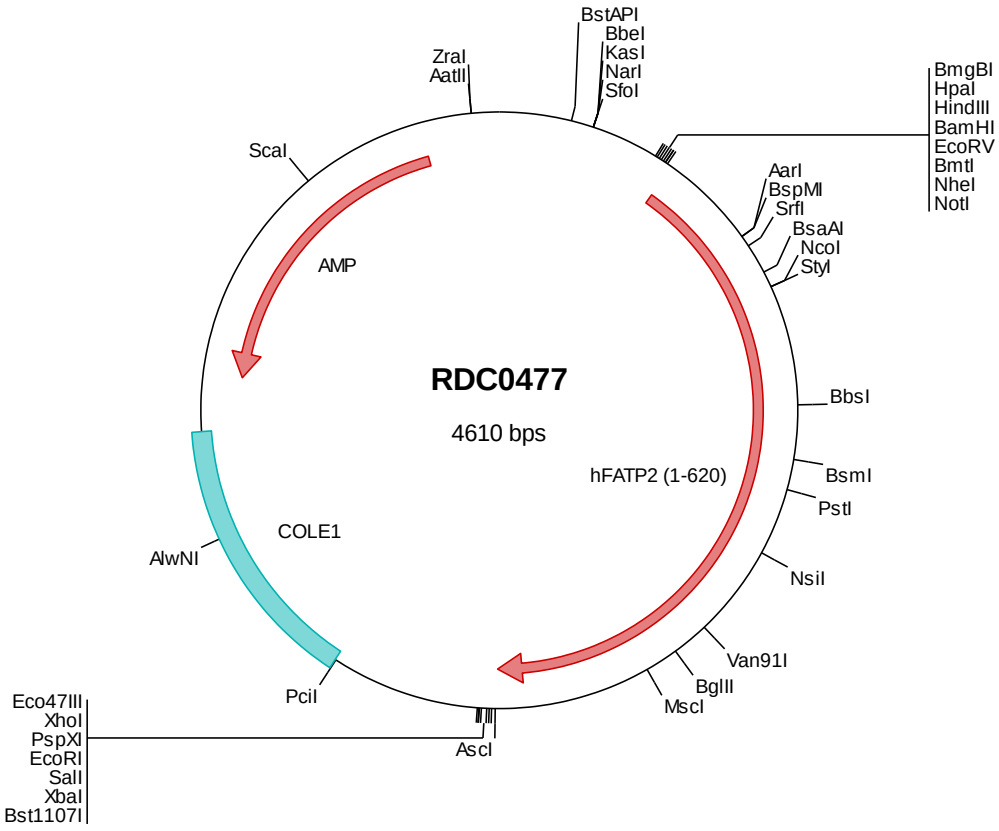
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*FATP2 cDNA Plasmid

SLC27A2 solute carrier family 27 (fatty acid transporter), member 2 [*Homo sapiens*]

Also known as: VLCS; FATP2; VLACS; ACSVL1; FACVL1; hFACVL1; HsT17226

Summary:
FATP2 is an isozyme of the long-chain fatty-acid-coenzyme A ligase family. 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. FATP2 is expressed primarily in liver and kidney, and is present in both endoplasmic reticulum and peroxisomes, but not in mitochondria. Its decreased peroxisomal enzyme activity is in part responsible for the biochemical pathology in X-linked adrenoleukodystrophy. Alternatively spliced transcript variants encoding different isoforms have been found for FATP2.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0477 Plasmid DNA Sequence

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 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgctttccg ctatctacac agtcctggcg ggactgctgt tcctgccgct
 501  cctggtgaac ctctgctgcc catacttctt ccaggacata ggctacttct tgaaggtggc cgccgtgggc cggagggtgc gcagctacgg gcagcggcgg
 601  ccggcgcgca ccatcctgcg ggcgttcctg gagaaagcgc gccagacgcc acacaagcct tttctgctct tccgcgacga gactctcacc tacgcgcagg
 701  tggaccggcg cagcaatcaa gtggcccggg cgctgcacga ccacctcggc ctgcgccagg gagactgcgt ggcgctcctt atgggtaacg agccggccta
 801  cgtgtggctg tggctggggc tggtgaagct gggctgtgcc atggcgtgcc tcaattacaa catccgcgcg aagtccctgc tgcactgctt ccagtgctgc
 901  ggggcgaagg tgctgctggt gtcgccagaa ctacaagcag ctgtcgaaga gatactgcca agccttaaaa aagatgatgt gtccatctat tatgtgagca
1001  gaacttctaa cacagatggg attgactctt tcctggacaa agtggatgaa gtatcaactg aacctatccc agagtcatgg aggtctgaag tcacttttc
1101  cactcctgcc ttatacattt atacttctgg aaccacaggt cttccaaaag cagccatgat cactcatcag cgcatatggt atggaactgg cctcactttt
1201  gtaagcggat tgaaggcaga tgatgtcatc tatatcactc tgccctttta ccacagtgct gcactactga ttggcattca cggatgtatt gtggctggtg
1301  ctactcttgc cttgcggact aaattttcag ccagccagtt ttgggatgac tgcagaaaat acaacgtcac tgtcattcag tatatcggtg aactgcttcg
1401  gtatttatgc aactcaccac agaaaccaaa tgaccgtgat cataaagtga gactggcact gggaaatggc ttacgaggag atgtgtggag acaatttgtc
1501  aagagatttg gggacatatg catctatgag ttctatgctg ccactgaagg caatattgga tttatgaatt atgcagagaaa agttggtgct gttggaagag
1601  taaactacct acagaaaaaa atcataactt atgacctgat taaatatgat gtggagaaag atgaacctgt ccgtgatgaa aatggatatt gcgtcagagt
1701  tcccaaaggt gaagttggac ttctggtttg caaaatcaca caacttacac catttaatgg ctatgctgga gcaaaggctc agacagagaa gaaaaaactg
1801  agagatgtct ttaagaaagg agacctctat ttcaacagtg gagatctctt aatggttgac catgaaaatt tcatctattt ccacgacaga gttggagata
1901  cattccggtg gaaaggggaa aatgtggcca ccactgaagt tgctgataca gttggactgg ttgattttgt ccaagaagta aatgtttatg gagtgcatgt
2001  gccagatcat gagggtcgca ttggcatggc ctccatcaaa atgaaagaaa accatgaatt tgatggaaag aaactctttc agcacattgc tgattaccta
2101  cctagttatg caaggccccg gtttctaaga atacaggaca ccattgagat cactggaact tttaaacacc gcaaaatgac cctggtggag gagggcttta
2201  accctgctgt catcaaagat gccttgtatt tcttggatga cacagcaaaa atgtatgtgc ctatgactga ggacatctat aatgccataa gtgctaaaac
2301  cctgaaactc taaaggcgcg ccagtatact ctagagtcga cacccgggga attcctcgag cgctcgtctc tagcttggcg taatcatggt catagctgtt
2401  tcctgtgtga aattgttatc cgctcacaat tccacacaac atacgagccg gaagcataaa gtgtaaagcc tggggtgcct aatgagtgag ctaactcaca
2501  ttaattgcgt tgcgctcact gcccgctttc cagtcgggaa acctgtcgtg ccagctgcat taatgaatcg gccaacgcgc ggggagaggc ggtttgcgta
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2701  cacagaatca ggggataacg caggaaagaa catgtgagca aaaggccagc aaaaggccag gaaccgtaaa aaggccgcgt tgctggcgtt tttccatagg
2801  ctccgccccc ctgacgagca tcacaaaaat cgacgctcaa gtcagaggtg gcgaaacccg acaggactat aaagatacca ggcgtttccc cctggaagct
2901  ccctcgtgcg ctctcctgtt ccgaccctgc cgcttaccgg atacctgtcc gcctttctcc cttcgggaag cgtggcgctt tctcaatgct cacgctgtag
3001  gtatctcagt tcggtgtagg tcgttcgctc caagctgggc tgtgtgcacg aacccccccgt tcagcccgac cgctgcgcct tatccggtaa ctatcgtctt
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3301  cggcaaacaa accaccgctg gtagcggtgg ttttttttgtt tgcaagcagc agattacgcg cagaaaaaaa ggatctcaag aagatccttt gatcttttct
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3701  tcaccggctc cagatttatc agcaataaac cagccagccg gaagggccga gcgcagaagt ggtcctgcaa ctttatccgc ctccatccag tctattaatt
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4001  agaagtaagt tggccgcagt gttatcactc atggttatgg cagcactgca taattctctt actgtcatgc catccgtaag atgcttttct gtgactggtg
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4401  gaatactcat actcttcctt tttcaatatt attgaagcat ttatcagggt tattgtctca tgagcggata catatttgaa tgtatttaga aaaataaaca
4501  aatagggttc ccgcgcacat ttccccgaaa agtgccacct gacgtctaag aaaccattat tatcatgaca ttaacctata aaaataggcg tatcacgagg
4601  ccctttcgtc
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> RDC0477 Translated Insert Sequence

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 201  vstepipesw rsevtfstpa lyiytsgttg lpkaamithq riwygtgltf vsglkaddvi yitlpfyhsa alligihgci vagatlalrt kfsasqfwdd
 301  crkynvtviq yigellrylc nspqkpndrd hkvrlalgng lrgdvwrqfv krfgdiciye fyaategnig fmnyarkvga vgrvnylqkk iitydlikyd
 401  vekdepvrde ngycvrvpkg evgllvckit qltpfngyag akaqtekkkl rdvfkkgdly fnsgdllmvd henfiyfhdr vgdtfrwkge nvattevadt
 501  vglvdfvqev nvygvhvpdh egrigmasik mkenhefdgk klfqhiadyl psyarprflr iqdtieitgt fkhrkmtlve egfnpavikd alyflddtak
 601  myvpmtediy naisaktlkl
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