

Product datasheet for SC126175

ECH1 (BC011792) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ECH1 (BC011792) Human Untagged Clone
Tag:	Tag Free
Symbol:	ECH1
Synonyms:	delta3,5-delta2,4-dienoyl-CoA isomerase; dienoyl-CoA isomerase; enoyl Coenzyme A hydratase 1, peroxisomal; HPXEL; peroxisomal enoyl-CoA hydratase 1; peroxisomal enoyl-coenzyme A hydratase-like protein
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC011792 edited

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CGATGGCGGGGGATAGTGGCTTCTCGCAGACTCCGCGACTACTGACCCGGCGACTGA
CAGGCTCCAACACTACCCGGGACTCAGTATTAGCCTTCGCCTCACTGGCTCCTCTGCACAAG
AGGAGGCTTCCGGAGTAGCCCTCGGTGAAGCCCCAGACCACAGCTATGAGTCCCTTCGTG
TGACGTCTGCGCAGAAACATGTTCTGCATGTCCAGCTCAACCGGCCCAACAAGAGGAATG
CCATGAACAAGGTCTTCTGGAGAGAGATGGTAGAGTGCTTCAACAAGATTCGAGAGACG
CTGACTGTCGGGCGGTGGTGATCTCTGGTGCAGGAAAAATGTTCACTGCAGGTATTGACC
TGATGGACATGGCTTCAGACATCCTGCAGCCAAAGGAGATGATGTGGCCCGGATCAGCT
GGTACCTCCGTGACATCATCACTCGATACCAGGAGACCTTCAACGTCATCGAGAGGTGCC
CCAAGCCCGTGATTGCTGCCGTCCATGGGGGCTGCATTGGCGGAGGTGTGGACCTTGCA
CCGCTGTGACATCCGGTACTGTGCCAGGATGCTTTCTCCAGGTGAAGGAGGTGGACG
TGGGTTTGGCTGCCGATGTAGGAACACTGCAGCGCCTGCCAAGGTCATCGGAACCAGA
GCCTGGTCAACGAGCTGGCCTTACC GCCCGCAAGATGATGGCTGACGAGGCCCTGGGCA
GTGGGCTGGTCAGCCGGGTGTTCCAGACAAAGAGGTCATGCTGGATGCTGCCTTAGCGC
TGGCGGCCGAGATTTCCAGCAAGAGCCCGTGGCGGTGCAGAGCACAAGGTCAACCTGC
TGTATCCCGCGACCATTCGGTGGCCGAGAGCCTCAACTACGTGGCGTCTTGAACATGA
GCATGCTGCAGACCCAAGACCTCGTGAAGTCGGTCCAGGCCACGACTGAGAAACAAGAAC
TGAAAACCGTCACCTTCTCCAAGCTCTGAGAGCCCTCGCGTCCCAGGCCCCAGCCAGGGG
GCCGGCTTGTCCCGCTCATCCACAGAAAGGGAGGATGGGCGATGACAGTTGTTTCTAT
GCCTTCTGACCCAGTTTCCAGTTTATAACTTTATGACAATGAGTTTCTCAAGCCCAAGG
CCTTATCTTACCCACAAACAATAAAGCAAAGTAAAGAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for BC011792 unedited GTGCGGTCATTATTTGTATACGACTCACTATAGGCGGCCGCTAATTCGCACGAGGCGAT GGCGGGGGGATAGTGGCTTCTCGCAGACTCCGCGACCTACTGACCCGGCGACTGACAGG CTCCAAC TACCCGGGACTCAGTATTAGCCTTCGCCTCACTGGCTCCTCTGCACAAGAGGA GGCTTCCGGAGTAGCCCTCGGTGAAGCCCCAGACCACAGCTATGAGTCCCTTCGTGTGAC GTCTGCGCAGAAACATGTTCTGCATGTCCAGCTCAACCGGCCAACAAAGAGGAATGCCAT GAACAAGGTCTTCTGGAGAGAGATGGTAGAGTCTTCAACAAGATTTTCGAGAGACGCTGA CTGTCGGGCGGTGGTATCTCTGGTGCAGGAAAATGTTCACTGCAGGTATTGACCTGAT GGACATGGCTTCAGACATCCTGCAGCCAAAGGAGATGATGTGGCCCGGATCAGCTGGTA CCTCCGTGACATCACTCGATACCAGGAGACCTTCAACGTCATCGAGAGGTGCCCAA GCCCGTATTGCTGCCGTCCATGGGGGCTGCATTGGCGGAGGTGTGGACCTTGTACCCGC CTGTGACATCCGGTACTGTGCCAGGATGCTTTCTTCCAGGTGAAGGAGGTGGACGTGGG TTTGGCTGCCGATGTAAGAAACTGAGCGCTGCCCAAGGTCATCGGGAACCAGAGCCT GGTC AACGAGCTGGCCCTCACCGCCCGCAAGAAGATGGCTGACGAGCCCTGCGCAGTGG GCTGGTCAGCCGGGGTTCAAAACAAGAGGTCATGCTGGAGGCCCTTAACGCTGGCG GCCGAAGATTTCCGAAGGACCCCTGGGGGTGCAGATACCAAGTCAAACCTGCTTTATN
Restriction Sites:	NotI-NotI
ACCN:	BC011792
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:	BC011792.2 , AAH11792.1
RefSeq Size:	1218 bp
Locus ID:	1891
Cytogenetics:	19q13.2

Gene Summary:

This gene encodes a member of the hydratase/isomerase superfamily. The gene product shows high sequence similarity to enoyl-coenzyme A (CoA) hydratases of several species, particularly within a conserved domain characteristic of these proteins. The encoded protein, which contains a C-terminal peroxisomal targeting sequence, localizes to the peroxisome. The rat ortholog, which localizes to the matrix of both the peroxisome and mitochondria, can isomerize 3-trans,5-cis-dienoyl-CoA to 2-trans,4-trans-dienoyl-CoA, indicating that it is a delta3,5-delta2,4-dienoyl-CoA isomerase. This enzyme functions in the auxiliary step of the fatty acid beta-oxidation pathway. Expression of the rat gene is induced by peroxisome proliferators. [provided by RefSeq, Jul 2008]