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Product datasheet for SC119261

ECH1 (NM_001398) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ECH1 (NM_001398) Human Untagged Clone
Tag:	Tag Free
Symbol:	ECH1
Synonyms:	HPXEL
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC119261 sequence for NM_001398 edited (data generated by NextGen Sequencing)

ATGGCGGCGGGGATAGTGGCTTCTCGCAGACTCCGCGACCTACTGACCCGGCGACTGACA
GGCTCCAACTACCCGGGACTCAGTATTAGCCTTCGCCTCACTGGCTCCTCTGCACAAGAG
GCGGCTTCCGGAGTAGCCCTCGGTGAAGCCCCAGACCACAGCTATGAGTCCCTTCGTGTG
ACGTCTGCGCAGAAACATGTTCTGCATGTCCAGCTCAACCGGCCCAACAAGAGGAATGCC
ATGAACAAGGTCTTCTGGAGAGAGATGGTAGAGTGCTTCAACAAGATTTCGAGAGACGCT
GACTGTCGGGCGGTGGTGATCTCTGGTGCAGGAAAAATGTTCACTGCAGGTATTGACCTG
ATGGACATGGCTTCGGACATCCTGCAGCCCAAAGGAGATGATGTGGCCCGGATCAGCTGG
TACCTCCGTGACATCATCACTCGATACCAGGAGACCTTCAACGTCATCGAGAGGTGCCCC
AAGCCCGTGATTGCTGCCGTCCATGGGGGCTGCATTGGCGGAGGTGTGGACCTTGTCACC
GCCTGTGACATCCGGTACTGTGCCCAGGATGCTTTCTTCCAGGTGAAGGAGGTGGACGTG
GGTTTGGCTGCCGATGTAGGAACACTGCAGCGCCTGCCCAAGGTCATCGGGAACCAGAGC
CTGGTCAACGAGCTGGCCTTCACCGCCCGCAAGATGATGGCTGACGAGGCCCTGGGCAGT
GGGCTGGTCAGCCGGGTGTTCCCAGACAAAGAGGTCATGCTGGATGCTGCCTTAGCGCTG
GCGGCCGAGATTTCCAGCAAGAGCCCCGTGGCGGTGCAGAGCACCAAGGTCAACCTGCTG
TATTCCCGCGACCATTCGGTGGCCGAGAGCCTCAACTACGTGGCGTCCTGGAACATGAGC
ATGCTGCAGACCCAAGACCTCGTGAAGTCGGTCCAGGCCACGACTGAGAACAAGGAACTG
AAAACCGTCACCTTCTCCAAGCTCTGA

Clone variation with respect to NM_001398.2
122 a=>c

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001398 unedited
NGGGTCGAATTTGTATACGACTCCTATAGGCGGCCGCGNAATTCGCACGAGGCGGCGATG
GCGGCGGGGATAGTGGCTTCTCGCAGACTCCGCGACCTACTGACCCGGCGACTGACAGGC
TCCAACTACCCGGGACTCAGTATTAGCCTTCGCCTCACTGGCTCCTCTGCACAAGAGGCG
GCTTCCGGAGTAGCCCTCGGTGAAGCCCCAGACCACAGCTATGAGTCCCTTCGTGTGACG
TCTGCGCAGAAACATGTTCTGCATGTCCAGCTCAACCGGCCCAACAAGAGGAATGCCATG
AACAAGGTCTTCTGGAGAGAGATGGTAGAGTGCTTCAACAAGATTTCGAGAGACGCTGAC
TGTCGGGCGGTGGTGATCTCTGGTGCAGGAAAAATGTTCACTGCAGGTATTGACCTGATG
GACATGGCTTCGGACATCCTGCAGCCCAAAGGAGATGATGTGGCCCGGATCAGCTGGTAC
CTCCGTGACATCATCACTCGATACCAGGAGACCTTCAACGTCATCGAGAGGTGCCCCAAG
CCCGTGATTGCTGCCGTCCATGGGGGCTGCATTGGCGGAGGTGTGGACCTTGTCACCGCC
TGTGACATCCGGTACTGTGCCCAGGATGCTTTCTTCCAGGTGAAGGAGGTGGACGTGGGT
TTGGCTGCCGATGTAGGAACACTGCAGCGCCTGCCCAAGTCATCGGGAACCAGAGCCTGG
TCAACGAGCTGGCCTTCACCGNCCGCAAGATGATGGCTGACGAGGCCCTGNGCAGTGGGC
TGGTCAGCCCGGTGTTCCCAGACAAAGAGTCATGCTGGATGCTGCCTTANCGCTGGCGGN
CGAGATTTCAGCCAGAGCCCGGGGCGGTGCAGAGCACCAGGTCACCTGCTGTATC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001398 unedited
CCGCCGCCGCTATCTAGAGTCGAGTTTTTCTTTTTTTTTTTTTTTTTTTTTTTTTTTTC
TTTACTTTGCTTTATTGTTCGGGGGGGGAAAATAAGGCCTTGGGCTTGAAAAACTCATTG
TCATAAAGTTATAAACTGGGAAACTGGGTCAAAAGGCATAAAAACAACTGTCATCGCCCA
TCCTCCCTTTCTGGGGATGAGGCGGGACAAGGCCGGCCCCCTGGCTGGGGCCTGGGACCC
GAGGGCTCTCAAAGCTTGGAAAAGGGGACGGTTTTCAGTTCCTTGTTCTCAGTCGGGGCC
TGAACCGACTTCACAAGGTCTTGGGTCTGCAGCATGCTCATGTTCCAGGACGCCACGTAT
TTGAGGCTCTCGGCCACCGAATGGTCGCGGGAATACACCAGGTTGACCTTGGTGCTCTGC
ACCGCCACGGGGCTCTTGCTGGAAATCTCGGCCGCCAGCGCTAAGGCAGCATCCAACATG
ACCTTTTTGGTTGGGAAACCCGGTTGACAGCCCACTGCCCAGGCCCTGTTAGCCATAATT
TTGCGGCCGGGAAAGCCACTTGTTGACAACCTCTGTTCCCAAGACCTGGGCAAGCCCCGC
ATGTTCCACCTCAGCACCAAACCCCCTCCACCTCTTTACCCGAAAAAACCTCCTGGCCAA
CACCGGATTCCCAGCGGTGACAAGCCCACCCTCCCCCAAGCCCCCCCCCACGGACGGACCA
TCACGGGCCTGGGGCACCTTTCATACCTCTCAAAGCTCCCTGTTTAAGAGTCAATGACCG
GGATGCCCCTCGTCCCGGCCCAACTTTCCTTTGCCTCCAAATGCCAAAACACTCCTAAGG
AAACCCCCCGAAATTTTTTCTCCCACAAACACCCCCCCCCCACT

Restriction Sites: NotI-NotI

ACCN: NM_001398

Insert Size: 1290 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:	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_001398.2, NP_001389.2
RefSeq Size:	1276 bp
RefSeq ORF:	987 bp
Locus ID:	1891
UniProt ID:	Q13011
Cytogenetics:	19q13.2
Domains:	ECH
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]