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Product datasheet for RC230366

EHHADH (NM_001166415) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EHHADH (NM_001166415) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EHHADH
Synonyms:	ECHD; FRTS3; L-PBE; LBFP; LBP; MFE1; PBFE
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

ORF Nucleotide Sequence:

>RC230366 representing NM_001166415
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGAGTATACGCGGCTGCACAACGCCTTGGCGCTAATCCGCCTCCGAAACCCGCCGGTCAACGCGA
TCAGTACGACTTTACTCCGTGACATAAAAGAAGGACTACAGAAAGCTGTAATAGACCATACAATAAAAGC
CATTGTGATTTGTGGAGCAGAGGGCAAATTTTCTGCAGGTGCTGATATTCGTGGCTTCAGTGCTCCTAGG
ACATTTGGCCTTACACTGGGACATGTAGTAGATGAAATACAGAGAAATGAGAAGCCCGTGGTGGCAGCAA
TCCAAGGCATGGCTTTCGGAGGGGGACTAGAGCTGGCCCTGGGCTGTCACTATAGGATTGCCCACGCAGA
GGCTCAAGTTGGCTTACCAGAAGTTACACTGGGACTTCTCCCTGGTGCAAGAGGAACCCAGCTTCTCCCC
AGACTCACTGGAGTTCCTGCTGCACTTGACTTAATTACCTCAGGAAGACGTATTTTAGCAGATGAAGCAC
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AGTTTCAGATCAACCTCTAGAATCCCGTAGACTCTGCAACAAGCCAATTCAGAGCTTGCCCAACATGGAC
AGCATTTTTAGTGAGGCCCTCTTGAAGATGCGGAGGCAGCACCCTGGGTGTCTTGCACAGGAGGCTTGTG
TCCGTGCAGTCCAGGCTGCTGTGCAGTATCCCTATGAAGTGGGCATCAAGAAGGAGGAGGAGCTGTTTCT
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TCACATTGAACCACGTACCATTAGCCAGGATGAGATCCTTGAACGCTGCTTATATTCACTTATCAATGAA
GCATTCCGTATCTTGGGAGAAGGGATAGCTGCTAGCCCAGAGCACATTGATGTTGTCTATTTACATGGAT
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GAAATTGCAGAAATATTACAGGCAGAACCCTGATATTCCCCAACTGGAGCCAAGTGACTATCTAAAAAAA
CTGGCTTCTCAGGGAAACCCTCCCCTGAAAGAATGGCAAAGCTTGGCAGGCTCCCCTAGCAGTAAATTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230366 representing NM_001166415
Red=Cloning site Green=Tags(s)

MAEYTRLHNALALIRLRNPPVNAISTTLLRDIKEGLQKAVIDHTIKAIVICGAEGKFSAGADIRGFSAPR
TFGLTLGHVVDEIQRNEKPVVAAIQGMAFGGGLELALGCHYRIAHAEAQVGLPEVTLGLLPGARGTQLLP
RLTGVPAALDLITSGRRILADEALKLGILDKVVNSDPVEEAIRFAQRVSDQPLESRRLCNKPIQSLPNMD
SIFSEALLKMRRQHPGCLAQEACVRAVQAAVQYPYEVGIKKEEELFLYLLQSGQARALQYAFFAERKANK
WSTPSGASWKTASARPVSSVGVVGLGTMGRGIVISFARARIPVIAVDSDKNQLATANKMITSVLEKEASK
MQQSGHPWSGPKPRLTSSVKELGGVDLVIEAVFEEMSLKKQVFAELSAVCKPEAFLCTNTSALDVDEIAS
STDRPHLVIGTHFFSPAHVMKLLEVIPSQYSSPTTIATVMNLSKKIKKIGVVVGNCFGFVGNRMLNPYYN
QAYFLLEEGSKPEEVDQVLEEFGFKMGPFRVSDLAGLDVGWKSRKGQGLTGPTLLPGTPARKRGNRRYCP
IPDVLCELGRFGQKTGKGWYQYDKPLGRIHKPDPWLSKFLSRYRKTHHIEPRTISQDEILERCLYSLINE
AFRILGEGIAASPEHIDVVYLHGYGWPRHKGGPMFYASTVGLPTVLEKLQKYYRQNPDIPQLEPSDYLKK
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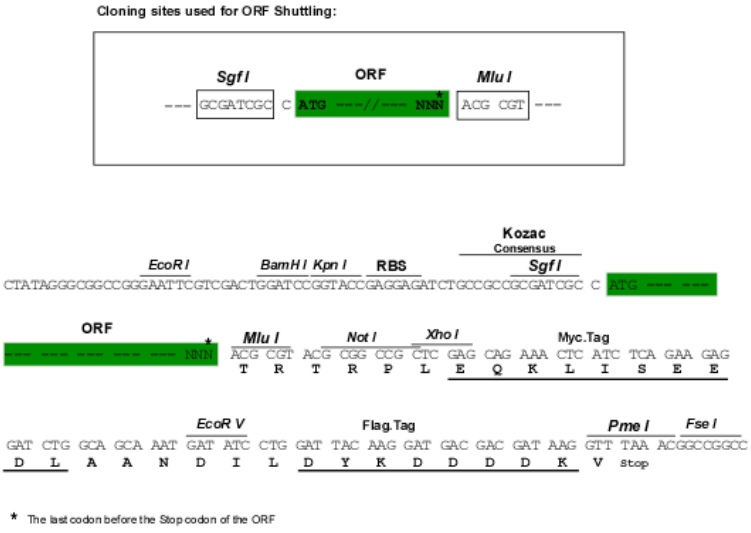
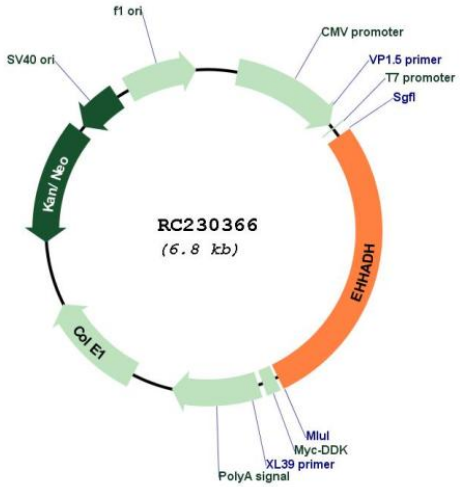
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001166415
ORF Size:	2172 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001166415.1, NP_001159887.1
RefSeq Size:	3993 bp
RefSeq ORF:	1884 bp

Locus ID:	1962
UniProt ID:	Q08426
Cytogenetics:	3q27.2
Protein Pathways:	beta-Alanine metabolism, Butanoate metabolism, Fatty acid metabolism, Limonene and pinene degradation, Lysine degradation, Metabolic pathways, PPAR signaling pathway, Propanoate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation
MW:	79.5 kDa
Gene Summary:	The protein encoded by this gene is a bifunctional enzyme and is one of the four enzymes of the peroxisomal beta-oxidation pathway. The N-terminal region of the encoded protein contains enoyl-CoA hydratase activity while the C-terminal region contains 3-hydroxyacyl-CoA dehydrogenase activity. Defects in this gene are a cause of peroxisomal disorders such as Zellweger syndrome. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]