

Product datasheet for **RG207928**

EHHADH (NM_001966) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EHHADH (NM_001966) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EHHADH
Synonyms:	ECHD; FRTS3; L-PBE; LBFP; LBP; MFE1; PBFE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG207928 representing NM_001966
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGAGTATACGCGGCTGCACAACGCCTTGGCGCTAATCCGCCTCCGAAACCCGCGGTCAACGCGA
 TCAGTACGACTTTACTCCGTGACATAAAAGAAGGACTACAGAAAGCTGTAAATAGACCATACAATAAAAGC
 CATTGTGATTTGTGGAGCAGAGGGCAAATTTCTGCAGGTGCTGATATTCGTGGCTTCAGTGCTCTAGG
 ACATTTGGCCTTACACTGGGACATGTAGTAGATGAAATACAGAGAAATGAGAAGCCCGTGGTGGCAGCAA
 TCCAAGGCATGGCTTTCGGAGGGGGACTAGAGCTGGCCCTGGGCTGCTACTATAGGATTGCCACGCAGA
 GGCTCAAGTTGGCTTACCAGAAGTTACTCTGGACTTCTCCCTGGTGCAAGAGGAACCCAGCTTCTCCCC
 AGACTCACTGGAGTTCCTGCTGCACTTGACTTAATTACCTCAGGAAGACGTATTTTAGCAGATGAAGCAC
 TCAAGCTGGGCATTCTAGATAAAGTTGTAACCTCAGACCCGGTTGAAGAAGCAATCAGATTTGCTCAGAG
 AGTTTCAGATCAACCTCTAGAATCCCGTAGACTCTGCAACAAGCCAATTCAGAGCTTGCCCAACATGGAC
 AGCATTTTTAGTGAGGCCCTCTTGAAGATGCGGAGGCAGCACCCCTGGGTGCTTGCACAGGAGGCTGTG
 TCCGTGCAGTCCAGGCTGCTGTGCAATCCCTATGAAGTGGGCATCAAGAAGGAGGAGGAGCTGTTTCT
 ATATCTTTTGAATCAGGGCAGGCTAGAGCCCTGCAATATGCTTCTTCGCTGAAAGGAAAGCAAATAAG
 TGGTCACTCCCTCCGGAGCATCGTGGAAAACAGCATCAGCGCGGCTGTCTCCTCAGTTGGTGTGTTG
 GCTTGGGAACAATGGGCCGAGGCATTGTCAATTTCTTTTGAAGGGCCAGGATTCTGTGATTGCTGTAGA
 CTCGGACAAAACAGCTAGCAACTGCAAAACAAGATGATAACCTCTGTCTTGGAAAAGAAGCCTCCAAA
 ATGCAACAGAGCGGCCACCCTTGGTCAGGACAAAACCCAGGTTAACTTCATCTGTGAAGGAGCTTGGTG
 GTGTAGATTTAGTCATTGAAGCAGTATTTGAGGAAATGAGCCTGAAGAAGCAGGCTTTTGTGACTCTC
 AGCTGTGTGCAAACAGAACGATTTTTGTGCACTAATACTTCAGCCCTGGATGTTGATGAGATTGCTTCT
 TCCACTGATCGTCTCACTTGGTCATTGGCACCCACTTCTTTTCGCCAGCTCATGTCATGAAGTTGTTAG
 AGGTTATCCCAGCCAATACTCTCCCCACTACCATTGCCACTGTTATGAACTTATCAAAAAAGATTAA
 AAAGATTGGAGTCGTTGTAGGCAACTGTTTGGATTTGTGGGAATCGAATGTTGAATCCTTACTACAAT
 CAGGCATATTTCTTGTAGAGAAGGCAGCAAACCAGAGGAGGTAGATCAGGTGCTGGAAGATTTGGTT
 TAAAAATGGGACCTTTAGAGTGTCTGATCTTGTGGTGGATGTGGGCTGGAATCTAGAAAGGGGCA
 AGGTCTTACTGGACCTACATTGCTTCCAGGAACCTCCTGCCGAAAAGGGGTAATAGGAGGTACTGCCCA
 ATTCCTGATGTGCTCTGTGAATTAGGACGATTTGGCCAGAAGACAGGTAAGGGTGGTATCAATATGACA
 AGCCATTGGGTAGGATTCACAAACCTGATCCCTGGCTTTCCAAATTCCTATCACGGTATAGAAAAACCCA
 TCACATTGAACCAGTACCATTAGCCAGGATGAGATCCTTGAACGCTGCTTATATCACTTATCAATGAA
 GCATTCGTATCTTGGGAGAAGGGATAGCTGCTAGCCAGAGCACATTGATGTTGTCTATTTACATGGAT
 ATGGATGGCCAAGGCACAAGGGCGGCCCATGTTCTATGCTTCCACAGTTGGGTTGCCACAGTTCTAGA
 GAAATTGCAGAAATATTACAGGCAGAACCTGATATCCCAACTGGAGCCAAGTGACTATCTAAAAAAA
 CTGGCTTCTCAGGAAACCCCTCCCCTGAAAGAATGGCAAAGCTTGGCAGGCTCCCCTAGCAGTAAATTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207928 representing NM_001966
 Red=Cloning site Green=Tags(s)

```
MAEYTRLHNALALIRLRNPPVNAISTLLRDIKEGLQKAVIDHTIKAIVICGAEGKFSAGADIRGFSAPR
TFGLTLGHVVDEIQRNEKPVVAIQGMAFGGGLALGCHYRIAHAEQVGLPEVTLGLLPGARGTQLLP
RLTGVPAAALDLITSGRRILADEALKLILDKVNSDPVEEAIQFQVSDQPLESRRLCNKPIQSLPNMD
SIFSEALLKMRRQHPGCLAQEACVRAVQAAVQYPYEVGIIKKEEELFLYLLQSGQARALQYAFFAERKANK
WSTPSGASWKTASARPVSSVGVVGLGTMGRGIVISFARARIPVIAVDSKNQLATANKMITSVLEKEASK
MQQSGHPWSGPKPRLTSSVKELGGVDLVIEAVFEEMSLKKQVFAELSAVCKPEAFLCTNTSALDVDEIAS
STDRPHLVIGTHFFSPAHYMKLLEVIPSYSSPTTIATVMNLSKKIKKIGVVVGNCFGFVGNRMLNPYYN
QAYFLLEEGSKPEEVDQVLEEFGFKMGPFVSDLAGLDVGVKSRKQGLTGPTLLPGTPARKRGNRRYCP
IPDVLCELGRFGQKTGKQWYQYDKPLGRIHKPDPWLSKFLSRYRKTHHIEPRTISQDEILERCLYSLINE
AFRILGEGIAASPEHIDVVYLHGYGWRHKGGPMFYASTVGLPTVLEKLQKYRQNPDPQLPEPSDYLLK
LASQGNPPLKEWQSLAGSPSSKL
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001966

ORF Size: 2169 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_001966.4](#)

RefSeq Size: 3821 bp

RefSeq ORF: 2172 bp

Locus ID: 1962

UniProt ID: [Q08426](#)

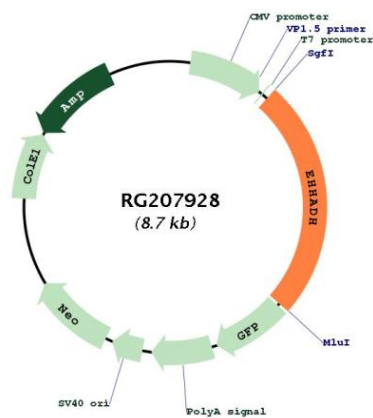
Cytogenetics: 3q27.2

Domains: ECH, 3HCDH, 3HCDH_N

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

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]

Product images:



Circular map for RG207928