

## Product datasheet for **RG230366**

### **EHHADH (NM\_001166415) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EHHADH (NM_001166415) 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)



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**ORF Nucleotide  
Sequence:**

>RG230366 representing NM\_001166415  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCGAGTATACGCGGCTGCACAACGCCTTGGCGCTAATCCGCCTCCGAAACCCGCGGTCAACGCGA  
 TCAGTACGACTTTACTCCGTGACATAAAAAGAAGGACTACAGAAAGCTGTAAATAGACCATACAATAAAGC  
 CATTGTGATTTGTGGAGCAGAGGGCAAATTTCTGCAGGTGCTGATATTCGTGGCTTCAGTGCTCTAGG  
 ACATTTGGCCTTACACTGGGACATGTAGTAGATGAAATACAGAGAAATGAGAAGCCCGTGGTGGCAGCAA  
 TCCAAGGCATGGCTTTCGGAGGGGGACTAGAGCTGGCCCTGGGCTGCTACTATAGGATTGCCACGCAGA  
 GGCTCAAGTTGGCTTACCAGAAGTTACACTGGGACTTCTCCCTGGTGCAAGAGGAACCCAGCTTCTCCCC  
 AGACTCACTGGAGTTCCTGCTGCACTTGACTTAATTACCTCAGGAAGACGTATTTTAGCAGATGAAGCAC  
 TCAAGCTGGGCATTCTAGATAAAGTTGTAACCTCAGACCCGGTTGAAGAAGCAATCAGATTTGCTCAGAG  
 AGTTTCAGATCAACCTCTAGAATCCCGTAGACTCTGCAACAAGCCAATTCAGAGCTTGCCCAACATGGAC  
 AGCATTTTTAGTGAGGCCCTCTTGAAGATGCGGAGGCAGCACCCCTGGGTGCTTTCACAGGAGGCTTGTG  
 TCCGTGCAGTCCAGGCTGCTGTGCAATCCCTATGAAGTGGGCATCAAGAAGGAGGAGGAGCTGTTTCT  
 ATATCTTTTGAATCAGGGCAGGCTAGAGCCCTGCAATATGCTTCTTCGCTGAAAGGAAAGCAAATAAG  
 TGGTCACTCCCTCCGGAGCATCGTGGAAAACAGCATCAGCGCGGCTGTCTCCTCAGTTGGTGTGTTG  
 GCTTGGGAACAATGGGCCGAGGCATTGTCAATTTCTTTTGAAGGGCCAGGATTCCTGTGATTGCTGTAGA  
 CTCGGACAAAACAGCTAGCAACTGCAAAACAAGATGATAACCTCTGTCTTGGAAAAGAAGCCTCCAAA  
 ATGCAACAGAGCGGCCACCCTTGGTCAGGACAAAACCCAGGTTAACTTCATCTGTGAAGGAGCTTGGTG  
 GTGTAGATTTAGTCATTGAAGCAGTATTTGAGGAAATGAGCCTGAAGAAGCAGGCTTTTGTGACTCTC  
 AGCTGTGTGCAAACCAGAAGCATTTTTGTGCACTAATACTTCAGCCCTGGATGTTGATGAGATTGCTTCT  
 TCCACTGATCGTCTCACTTGGTCATTGGCACCCACTTCTTTTCGCCAGCTCATGTCATGAAGTTGTTAG  
 AGGTTATCCCAGCCAATACTCTCCCCACTACCATTGCCACTGTTATGAACTTATCAAAAAAGATTAA  
 AAAGATTGGAGTCGTTGTAGGCAACTGTTTGGATTTGTGGGAATCGAATGTTGAATCCTTACTACAAT  
 CAGGCATATTTCTTGTGAGAAGAAGGCAGCAAACCAGAGGAGGTAGATCAGGTGCTGGAAGATTTGGTT  
 TAAAAATGGGACCTTTTAGAGTGTCTGATCTTGTGGTGGATGTGGGCTGGAATCTAGAAAGGGGCA  
 AGGTCTTACTGGACCTACATTGCTTCCAGGAACCTCCTGCCGAAAAGGGGTAATAGGAGGTACTGCCCA  
 ATTCCTGATGTGCTCTGTGAATTAGGACGATTTGGCCAGAAGACAGGTAAGGGTTGGTATCAATATGACA  
 AGCCATTGGGTAGGATTCACAAACCTGATCCCTGGCTTTCCAAATTCCTATCACGGTATAGAAAAACCCA  
 TCACATTGAACCAGTACCATTAGCCAGGATGAGATCCTTGAACGCTGCTTATATCACTTATCAATGAA  
 GCATTCGTATCTTGGGAGAAGGGATAGCTGCTAGCCAGAGCACATTGATGTTGTCTATTTACATGGAT  
 ATGGATGGCCAAGGCACAAGGGCGGCCCATGTTCTATGCTTCCACAGTTGGGTTGCCACAGTTCTAGA  
 GAAATTGCAGAAATATTACAGGCAGAACCCTGATATCCCAACTGGAGCCAAGTGACTATCTAAAAAAA  
 CTGGCTTCTCAGGGAACCCCTCCCTGAAAGAATGGCAAAGCTTGGCAGGCTCCCTAGCAGTAAATTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG230366 representing NM\_001166415  
 Red=Cloning site Green=Tags(s)

MAEYTRLHNALALIRLRNPPVNAISTLLRDIKEGLQKAVIDHTIKAIVICGAEGKFSAGADIRGFSAPR  
 TFGTLTGHVVDEIQRNEKPVVAIQGMAFGGLELALGCHYRIAHAEQVGLPEVTLGLLPGARGTQLLP  
 RLTGVPAALDLITSGRRILADEALKLILDKVNSDPVEEAIQFQVSDQPLESRRLCNKPIQSLPNMD  
 SIFSEALLKMRRQHPGCLAQEACVRAVQAAVQYPYEVGIIKKEEELFLYLLQSGQARALQYAFFAERKANK  
 WSTPSGASWKTASARPVSSVGVVGLGTMGRGIVISFARARIPVIAVDSKQNLATANKMITSVLEKEASK  
 MQQSGHPWSGPKPRLTSSVKELGGVDLVIEAVFEEMSLKKQVFAELSAVCKPEAFLCTNTSALDVDEIAS  
 STDRPHLVIGTHFFSPAHYMKLLEVIPSYSSPTTIATVMNLSKKIKKIGVVVGNCFGFVGNRMLNPYYN  
 QAYFLLEEGSKPEEVDQVLEEFGFKMGPFVSDLAGLDVGVKSRKQGLTGPTLLPGTPARKRGNRRYCP  
 IPDVLCELGRFGQKTGKQWYQYDKPLGRIHKPDPWLSKFLSRYRKTHHIEPRTISQDEILERCLYSLINE  
 AFRILGEGIAASPEHIDVVYLHGYGWRHKGGMFYASTVGLPTVLEKLQKYRQNPDPQLEPSDYLLK  
 LASQGNPPLKEWQSLAGSPSSKL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

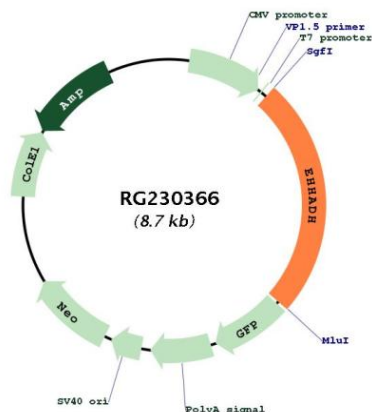
**UniProt ID:** [Q08426](#)

**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

**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 RG230366