

Product datasheet for **RG229896**

HADHSC (HADH) (NM_001184705) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HADHSC (HADH) (NM_001184705) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HADH
Synonyms:	HAD; HADH1; HADHSC; HCDH; HHF4; MSCHAD; SCHAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229896 representing NM_001184705 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTTCGTCACCAGGCAGTTCATGCGTTCGTTCCGTGTCCTCCTCGTCCACCGCCTCGGCCTCGGCCAAGA
AGATAATCGTCAAGCACGTGACGGTCATCGGCGCGGGCTGATGGGCGCCGGCATTGCCAGGTTGCTGC
AGCAACTGGTACACAGTAGTGTGGTAGACCAGACAGAGGACATCCTGGCAAAATCCAAAAGGGAAATT
GAGGAAAGCCTTAGGAAAGTGGCAAAGAAGAAGTTTGCAAAAACCTAAGGCCGGCGATGAATTTGTGG
AGAAGACCCTGAGCACCATAGCGACCAGCAGGATGCAGCCTCCGTTGTCCACAGCACAGACTTGGTGGT
GGAAGCCATCGTGAGAAATCTGAAGGTGAAAACGAGCTTTCAAAGGCTGGACAAGTTTGTCTGTGAA
CATACAATCTTTGCCAGCAACACTTCCTCCTTGCAGATTACAAGCATAGCTAATGCCACCACCAGACAAG
ACCGATTTCGCTGGCCTCCATTTCTCAACCCAGTGCCTGTGTAAGACTTGTGGAGGTCATTAACACC
AATGACCAGCCAGAAGACATTTGAATCTTTGGTAGACTTTAGCAAAGCCCTAGGAAAGCATCCTGTTTCT
TGCAAGGACACTCCTGGGTTTATTGTGAACCGCCTCCTGGTCCATACCTCATGGAAGCAATCAGGCTGT
ATGAACGAGACTTCAAACGTGTGGTGATTCTAACTCGGGTTTGGGCTTTTCTTTAAAAGGTGACGCATC
CAAAGAAGACATTGACACTGCTATGAAATTAGGAGCCGGTTACCCCATGGGCCATTTGAGCTTCTAGAT
TATGTCGGACTGGATACTACGAAGTTCATCGTGGATGGGTGGCATGAAATGGATGCAGAGAACCCATTAC
ATCAGCCAGCCCATCCTTAAATAAGCTGGTAGCAGAGAACAAGTTCGGCAAGAAGACTGGAGAAGGATT
TTACAAATACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229896 representing NM_001184705
 Red=Cloning site Green=Tags(s)

MAFVTRQFMRSVSSSSTASASAKKIIVKHVTVIGGGLMGAGIAQVAAATGHTVVLVDQTEDILAKSKKGI
 EESLRKVAKKKFAENPKAGDEFVEKTLSTIATSTDAASVVHSTDLVVEAIVENLKVKNELFKRLDKFAAE
 HTIFASNTSSLQITSIANATTRQDRFAGLHFFNPVPMKLVVEVIKTPMTSQKTFESLVDFSKALGKHPVS
 CKDTPGFIVNRLLPYLMIAIRLYERDFQTCGDSNSGLGFSKLGDAKEDIDTAMKLGAGYPMGPFELLD
 YVGLDTTKFIVDGHWEMDAENPLHQPSPLNKLVAENKFGKKTGEGFYKYK

TRTRPLE - GFP Tag - V

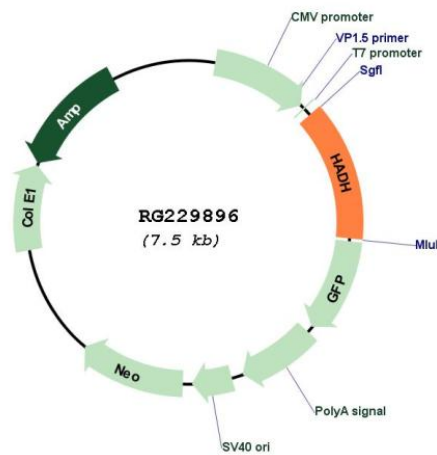
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001184705

ORF Size: 993 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:	<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:	NM_001184705.3
RefSeq Size:	2037 bp
RefSeq ORF:	996 bp
Locus ID:	3033
UniProt ID:	Q16836
Cytogenetics:	4q25
Protein Pathways:	Butanoate metabolism, Fatty acid elongation in mitochondria, Fatty acid metabolism, Lysine degradation, Metabolic pathways, Tryptophan metabolism, Valine, leucine and isoleucine degradation
Gene Summary:	This gene is a member of the 3-hydroxyacyl-CoA dehydrogenase gene family. The encoded protein functions in the mitochondrial matrix to catalyze the oxidation of straight-chain 3-hydroxyacyl-CoAs as part of the beta-oxidation pathway. Its enzymatic activity is highest with medium-chain-length fatty acids. Mutations in this gene cause one form of familial hyperinsulinemic hypoglycemia. The human genome contains a related pseudogene of this gene on chromosome 15. [provided by RefSeq, May 2010]