

Product datasheet for RC229896L3

OriGene Technologies, Inc.

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HADHSC (HADH) (NM_001184705) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: HADHSC (HADH) (NM_001184705) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: HADHSC

Synonyms: HAD; HADH1; HADHSC; HCDH; HHF4; MSCHAD; SCHAD

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clon

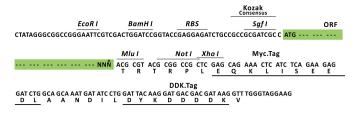
Sequence:

The ORF insert of this clone is exactly the same as (RC229896).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001184705

ORF Size: 993 bp



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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: <u>NM 001184705.2</u>

 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

MW: 36.5 kDa

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]