

Product datasheet for **SC317769**

ADHFE1 (NM_144650) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADHFE1 (NM_144650) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADHFE1
Synonyms:	ADH8; HMFT2263; HOT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_144650 edited
 CCATGGCCGCTGCCGCCGAGCCCGGGTCGCGTACTTGCTGAGGCAACTGCAACGCGCAG
 CGTGCCAGTGCCCAACTCATTCTCATACTACTCCCAAGCCCCTGGACTTTCACCTTCTG
 GGGAAACAACAGATTATGCCTTTGAGATGGCTGTTTCAAATATTAGATATGGAGCAGCAG
 TTACAAAGGAAGTAGGAATGGACCTAAAAACATGGGTGCTAAAAATGTGTGCTTGATGA
 CAGACAAGAACCTCTCCAAGCTCCCTCCTGTGCAAGTAGCTATGGATTCCCTAGTGAAGA
 ATGGCATCCCCTTTACGGTTTATGATAATGTGAGAGTGGAAACCAACGGATTCAAGCTTCA
 TGGAAAGCTATTGAGTTTGCCAAAAGGGAGCTTTTGATGCCTATGTTGCTGTCGGTGGTG
 GCTCTACCATGGACACCTGTAAGGCTGCTAATCTGTATGCATCCAGCCCTCATTCTGATT
 TCCTAGATTATGTCAGTGCCCCATTGGCAAGGGAAAAGCCTGTGTCTGTGCCTCTTAAGC
 CTCTGATTGCAGTGCCAACTACCTCAGGAACCGGGAGTAAAACACTGGGGTTGCCATTT
 TTGACTATGAACACTTGAAGTAAAAATGGCATCACTTCGAGAGCCATCAAACCCACAC
 TGGGACTGATTGATCCTCTGCACACCCTCCACATGCCTGCCCGAGTGGTCGCCAACAGTG
 GCTTTGATGTGCTTTGCCATGCCCTGGAGTCATACACCACCCTGCCCTACCACCTGCGGA
 GCCCTGCCCTTCAAATCCCATCACACGGCCTGCGTACCAGGGCAGCAACCCAATCAGTG
 ACATTTGGGCTATCCACGCGCTCGGGATCGTGGCTAAGTATCTGAAGAGGGCTGTGAGAA
 ATCCCCGATGATCTTGAAGCAAGGTCTCATATGCACTTGGCAAGTGTCTTTGCTGGCATCG
 GCTTTGGAAATGCTGGTGTTCATCTGTGCCATGGAATGTCTTACCAATTTACAGTTTAG
 TGAAGATGTATAAAGCAAAGGATTACAATGTGGATCACCCACTGGTGCCCATGGCCTTT
 CTGTGGTGCTCACGTCCCAGCGGTGTTCACTTTCACGGCCCAGATGTTTCCAGAGCGAC
 ACCTGGAGATGGCAGAAATACTGGGAGCCGACACCCGCACTGCCAGGATCCAAGATGCAG
 GGCTGGTGTGGCAGACACGCTCCGAAATTTCTATTCGATCTGGATGTTGATGATGGCC
 TAGCAGCTGTTGGTTACTCCAAAGCTGATATCCCGCACTAGTGAAGGAACGCTGCCCC
 AGGAAAGGGTCACCAAGCTTGCACCCTGTCCCAGTCAGAAGAGGATCTGGCTGCTCTGT
 TTGAAGCTTCAATGAACTGTATTAATTGTCAATTTAACTGAAAGAATTACCGCTGGCCA
 TTGTAGTGCTGAGAGCAAGAGCTGATCTAGCTAGGGCTTTGTCTTTTCATCTTTGCGCAT
 AACTTACCTGTTACAGTATAGGTGGGATATACATTTATCTTGCAGGAAATTCGCCAAAG
 CTCAGAGTCCAGTTCCTTCCATAAAACAGGCTGGACAAATGACCACTATGTTAGACCCCC
 AGGCTCGACTTCAGGGGTGAGTGTCTGTCCAAAACCCACACAGAATACTCTGCCTCT
 GTTTCATGTAGCAAATGAGCAAAAACACTCAGTATCTATCAAAGTGTAAATTATATTTCT
 ATGCCTAGTAATTCATTCATGTCTAAAAATTTATCTGATAGAAACACTAGCACCAGTAC
 ATACAGAAGCATGGCAAGGATGTTTCTGGCAGCACTTTTCTAATAATAAAAGATTTGAAA
 CAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_144650
Insert Size: 1900 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: The ORF of this clone has been fully sequenced and found to be a perfect match to NM_144650.2.

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_144650.2](#), [NP_653251.2](#)

RefSeq Size: 1907 bp

RefSeq ORF: 1404 bp

Locus ID: 137872

UniProt ID: [Q8IWW8](#)

Cytogenetics: 8q13.1

Domains: Fe-ADH

Gene Summary: The ADHFE1 gene encodes hydroxyacid-oxoacid transhydrogenase (EC 1.1.99.24), which is responsible for the oxidation of 4-hydroxybutyrate in mammalian tissues (Kardon et al., 2006 [PubMed 16616524]).[supplied by OMIM, Mar 2008]