

Product datasheet for **SC107930**

ADH6 (NM_000672) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ADH6 (NM_000672) Human Untagged Clone
Tag: Tag Free
Symbol: ADH6
Synonyms: ADH-5
Mammalian Cell Selection: None
Vector: pCMV6-XL4
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000672 edited
 ATGAGTACTACAGGCCAAGTCATCAGATGCAAAGCAGCCATCTGGAAGCCTGGTGCA
 CCATTTTCTATTGAAGAGGTAGAAGTGGCCCCACCAAAGGCAAAGGAAGTTCGCATAAAG
 GTTGTGGCCACCGGACTGTGTGGTACAGAGATGAAAGTGTGGGGAGTAAACACTTGGAC
 CTCTTGTATCCCACCATCTTGGGCCATGAAGGGCTGGAATCGTTGAGAGTATTGGAGAA
 GGAGTAAGCACAGTGAAACCAGGTGACAAAGTTATCACACTCTTCTGCCACAGTGTGGA
 GAATGTACCTCTTGCCTGAATTCTGAGGGCAATTTTTGTATACAATTCAAACAGTCAAAA
 ACCCAACTGATGTCTGATGGTACCAGCAGGTTTACCTGCAAGGGAAAAATCAATATATCAC
 TTTGGTAATACCAGCACCTTCTGTGAATACACAGTGATAAAGGAAATCTCAGTTGCCAAG
 ATTGATGCAGTCGCTCCTCTAGAGAAAGTATGCCTAATTAGCTGTGGCTTTTCCACTGGG
 TTTGGTGTGCAATCAATACTGCCAAGGTGACTCCAGTTCTACCTGTGCTGTGTTTGGC
 CTGGGAGGAGTCGGCTTGTCTGTTGTATGGGTTGTAAGCAGCAGGAGCAGCCAGGATC
 ATTGGAGTGGATGTCAACAAGGAGAAATTAAGAAGGCACAGGAATTGGGTGCTACTGAG
 TGCCCTCAACCCTCAGGACTTAAAGAAACCCATTCAAGAAGTTTTATTTGATATGACAGAT
 GCTGGTATAGACTTCTGCTTTGAGGCCATTGGAATCTGGACGTTCTGGCAGCTGCCCTC
 GCCTCCTGCAATGAGAGCTATGGGGTCTGTGTGGTTGTTGGGGTGTTCCTGCCAGTGT
 CAACTCAAAATCAGTGGCCAGTTGTTCTTCTCAGGACGTTCTTTGAAGGGTCTGTTTTT
 GGAGGCTGGAAGAGCAGACAGACATCCCTAAACTGGTTGCTGATTATATGGCAGAGAAG
 TTGAATCTAGATCCACTAATTAATCATACTCTGAATCTTGATAAAATCAATGAAGCAGTT
 GAATTAATGAAAACCTGGAATGTATCCGCTGTATCCTGTTACTTTAA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000672 unedited
 NGGGTCAGAAATTTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCACGAGGTACCTTT
 GTACTTTCTACAGTAAAAGTTGCTACAGGATCTCCCTTTCTCAATAAATTCATCTGCGGT
 GGAGAAAATCAGCATGAGTACTACAGGCCAAGTCATCAGATGCAAAGCAGCCATACTCTG
 GAAGCCTGGTGCACCATTTTCTATTGAAGAGGTAGAAGTGGCCCCACAAAGGCAAAGGA
 AGTTCGCATAAAAGTTGTGGCCACCGGACTGTGTGGTACAGAGATGAAAGTGTGGGGAG
 TAAACACTTGGACCTCTGTATCCACCATCTTGGGCCATGAAGGGGCTGGAATCGTTGA
 GAGTATTGGAGAAGGAGTAAACACAGTAAACCAGGTGACAAAGTTATCACACTCTTTCT
 GCCACAGTGTGGAGAATGTACCTCTTGCCTGAATTCTGAGGGCAATTTTTGTATAACAATT
 CAAACAGTCAAAAACCAACTGATGTCTGATGGTACCAGCAGTTTACCTGCAAGGGAAA
 ATCAATATACACTTTGGTAATACCAGCACCTTCTGTGAATACACAGTGATAAAGGAAAT
 CTCAGTTGCCAAGATTGATGCAGTCGCTCCTCTAGAGAAAGTATGCCTAATTAGCTGTGG
 CTTTTCCACTGGNTTGGTGTGCAATCAATACTGCCAAGGTGACTCCAGTTTCTACCTG
 TGCTGTGTTTGGCCTGGGAAGGAGTCGCTTGTCTGTTGTCATGGGGTGTAAAGCAGCAGG
 AGCAGCCAGAATCATTGGAGTGGATGTCAACANGAGAAATTTAAGAAGGCACAGATGG
 GTGCTACTGAGTGCCTCACCTTCAGACTTAAGAAACCATNCAGAAGTNTATTTGAATGA
 CAGAGCTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000672 unedited
 TTCGGTCTTCGGGCTGATGGCAACTTCCCAGTGTCCAGGNGAAAGGCACTGGAGGCAGGG
 GTACACAGGGCATGCCACCCGGGTATCTGTTGCAGGAAAACAGCTATGACCGCGGCCGCA
 ATCTAGAGTCGAGTTT
 CTTAAGGAACCGAGCTTTATTGGAGCAAAAAGTGTGGACTGTTTACAACAAAACCTTTT
 CCGGGAAAACCTGGATTTCCAAGACCCGAAAACCTCTCAAGTTCTCACTGTTAGTAAG
 GTCAATTTGGGGGCAAAAACAGGAACATGCCTTAACTGCTGTGAGGAAATAAAAAACAGA
 GCAGAGTTGGGCATGGAGGCTCCAGCTTAACTTGGGAAAATGGAAAAAGCCCTCCCAA
 GTCCAGAGTGAATAGGTTTCATAACACCCATCTCCTCTATTTGAAGGAAGCCGGCCCTA
 AAGGGAACACAGGATGCCCAACTTATAAAAATCAAACCTGTTATGAGAGTCTTTGATAT
 CATGTGAAAACCATGATGGGAAAAAAGACTGAGGGTGAACCCACCTTCTGGCCAGTG
 TTAATCAGGAACTATTTGTTAAATCAAAAATGATATTCCATTTTTTGGGCTCCCA
 AGGTCATCCAAAGTTTACTGACATGCAGGACCCTGTGTGATCTAGTGGGAGTCCAGAG
 CTAGGGGAGTCCAGCTGGAACAAAAGATTCTTCACTAAGAAGGGAACCTTGTGTATG
 AGGGGTTGAAAATAAGGCTCTTTTTTGTCCAGAGGGAGGGGAAGGAATCTTTTCCCAA
 GGAGGCGCCTAACCTTTAATCCCAATTCTAGGAAAACAAAAGGGGCTTGGAGCAAAAAA
 TTCAAAGGGTCCGGGTTAAAAGATATGGATC

Restriction Sites:

NotI-NotI

ACCN:

NM_000672

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_000672.2](#), [NP_000663.1](#)

RefSeq Size: 1398 bp

RefSeq ORF: 1107 bp

Locus ID: 130

UniProt ID: [P28332](#)

Cytogenetics: 4q23

Domains: ADH_zinc_N

Protein Families: Druggable Genome

Protein Pathways: Drug metabolism - cytochrome P450, Fatty acid metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism, Tyrosine metabolism

Gene Summary: This gene encodes class V alcohol dehydrogenase, which is a member of the alcohol dehydrogenase family. Members of this family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. This gene is expressed in the stomach as well as in the liver, and it contains a glucocorticoid response element upstream of its 5' UTR, which is a steroid hormone receptor binding site. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) has an alternate 3' sequence including the coding region, as compared to variant 1. The resulting isoform (2) has a distinct and shorter C-terminus, as compared to isoform 1.