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Product datasheet for SC119752

ADH1C (NM_000669) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADH1C (NM_000669) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADH1C
Synonyms:	ADH3
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000669, the custom clone sequence may differ by one or more nucleotides

ATGAGCACAGCAGGAAAAGTAATCAAATGCAAAGCAGCTGTGCTATGGGAGTTAAAGAAACCCTTTTCCA
TTGAGGAGGTAGAGGTTGCACCTCCTAAGGCTCATGAAGTTCGCATTAAGATGGTGGCTGCAGGAATCTG
TCGTTCAGATGAGCATGTGGTTAGTGGCAACCTGGTGACCCCCCTTCCTGTGATTTTAGGCCATGAGGCA
GCCGGCATCGTGGAAAGTGTTGGAGAAGGGGTGACTACAGTCAAACCAGGTGATAAAGTCATCCCGCTCT
TTACTCCTCAGTGTGGAAAATGCAGAATTTGTAAAAACCCAGAAAGCAACTACTGCTTGAAAAATGATCT
AGGCAATCCTCGGGGGACCCTGCAGGATGGCACCAGGAGGTTCACCTGCAGCGGGAAGCCCATCCACCAC
TTCGTCGGCGTCAGCACCTTCTCCCAGTACACAGTGGTGGATGAGAATGCAGTGGCCAAAATTGATGCAG
CCTCGCCCCTGGAGAAAGTCTGCCTCATTGGCTGTGGATTTTCGACTGGTTATGGGTCTGCAGTCAAAGT
TGCCAAGGTCACCCCAGGGTCTACCTGTGCTGTGTTTGGCCTGGGAGGGGTCGGCCTATCTGTTGTTATG
GGCTGTAAAGCAGCTGGAGCAGCCAGAATCATTGCTGTGGACATCAACAAGGACAAATTTGCAAAGGCTA
AAGAGTTGGGTGCCACTGAATGCATCAACCCTCAAGACTACAAGAAACCCATTCAGGAAGTGCTAAAGGA
AATGACTGATGGAGGTGTGGATTTTTCGTTTGAAGTCATCGGTCGGCTTGACACCATGATGGCTTCCCTG
TTATGTTGTCATGAGGCATGTGGCACAAGTGTCATTGTAGGGGTACCTCCTGATTCCCAGAACCTCTCAA
TAAACCCTATGCTGCTACTGACTGGACGCACGTGGAAAGGAGCTATTTTTGGAGGCTTTAAGAGTAAAGA
ATCTGTCCCCAAACTTGTGGCTGACTTTATGGCTAAGAAGTTTTCACTGGATGCATTAATAACAAATATT
TTACCTTTTGAAAAAATAAATGAAGGATTTGACCTGCTTCGCTCTGGAAAGAGTATCCGTACCGTCCTGA
CGTTTTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000669 unedited
GGAATTTGTATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGCCCATTTCTTTATG
ATTTGATAGTCTGAGAAGAAACGACGGGTGTGGCTTAAAAACCTAGATCACGTGTGTAGT
TGGAATTGGGTGTTATATGAGCAAACAAAATAAATACCTGTGCAACATACCTGCTTTATG
CACTCAAGCAGAGAAGAAATCCACAAGTACTCACCAGCCTCCTGGTCTGCAGAGAAGACA
GAATCAATATGAGCACAGCAGGAAAAGTAATCAAATGCAAAGCAGCTGTGCTATGGGAGT
TAAAGAAACCCTTTTCCATTGAGGAGGTAGAGGTTGCACCTCCTAAGGCTCATGAAGTTC
GCATTAAGATGGTGGCTGCAGGAATCTGTCGTTCAGATGAGCATGTGGTTAGTGGCAACC
TGGTGACCCCCCTTCCTGTGATTTTAGGCCATGAGGCAGCCGGCATCGTGGAAAGTGTTG
GAGAAGGGGTGACTACAGTCAAACCAGGTGATAAAGTCATCCCGCTCTTTACTCCTCAGT
GTGGAAAATGCAGAATTTGTAAAAACCCAGAAAGCAACTACTGCTTGAAAAATGATCTAG
GCAATCCTCGGGGGACCCTGCAGGATGGCACCAGGAGGTTCACCTGCAGCGGGAAGCCCA
TCCACCACTTCGTCGGCGTCAGCACCTTCTCCCATACACGGTGGTGGATGAGAATGCAGT
GGCCAAAATTGATGCAGCCTCGCCCCTGGAGAAAGTCTGCCTCATTGGCTGTGGATTNTC
GACTGGNTATGGGTCTGCAGTCAAAGTTGCCAAGGTCACCCCAGGNTCTACCTGTGCTGT
NGTTGGCCCTGGAGGNNGTCGNCTATCTGNTGTTATGGGCTGTAAGCAGCTGNAGCANCA
NAATCATGCTGTGGACTCACAAGGACAATTGCAANGCTAAGAGTGGNTGCACTGATGCTC
ACCTNAGACTACAGAACATTCAGATGCTAAGAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000669 unedited
CTTACTTGNACCGCGCCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTAATGGT
TAAGAAGGAAGGTTTATTGGCTTCAATTCCCCAGTTGATGTTCAACACTTTATTTAGTTC
TCATTTGGATTTTAAACATTTGCTTGACAAATAATTTCCCATCAATTTCCATTTCTTTGG
AAAGCTCCCACGTGTAATTTATTTTTAACATCTCTGAAGAGCAGAATTAATGATATTTCC
TAGCTGTTGCTCCAGATCATGTAGGGTAGAGGAGGCTGAAAACTGCTACAAGGGAAGGCA
TCTGTATTGTTTCAAAACGTCAGGACGGTACGGATACTCTTTCCAGAGCGAAGCAGGTCA
AATCCTTCATTTATTTTTTCAAAAGGTAAAATATTTGTTATTAATGCATCCAGTGAAAAC
TTCTTAGCCATAAAGTCAGCCACAAGTTTGGGGACAGATTCTTTACTCTTAAAGCCTCCA
AAAATAGCTCCTTTCCACGTGCGTCCAGTCAGTAGCAGCATAGGGTTTATTGAGAGGTTC
TGGGAATCAGGAGGTACCCCTACAATGACACTTGTGCCACATGCCTCATGACAACATAAC
AGGGAAGCCATCATGGTGTCAAGCCGACCGATGACTTCAAACGAAAAATCCACACCTCCA
TCAGTCATTTCCTTTAGCACTTCCTGAATGGGTTTCTTGTAGTCTTGAGGGGTGATGCAT
TCAGTGGCACCCAACTCTNTAGCCNNTTGCAATTTGTCCTTGNTGATGTCCACAGCAATG
ATNCTGGCTGCTTCAGCTGCTTTACAGCCCCATACAACAGATAAGCCGACCCCTCCCAGC
CAAACCAGNACAAGTAGACCCTGGGGTGACCTNGNCACTTNGACTGCNGACCCATACCCG
TCGAAATCCCCAGCCCATGAGCAGACTTTCTCCAGGGGCGAGGCTGCATCATTTTG

Restriction Sites: NotI-NotI

ACCN: NM_000669

Insert Size: 1650 bp

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_000669.3, NP_000660.1
RefSeq Size:	1497 bp
RefSeq ORF:	1128 bp
Locus ID:	126
UniProt ID:	P00326
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 I alcohol dehydrogenase, gamma subunit, which is a member of the alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. Class I alcohol dehydrogenase, consisting of several homo- and heterodimers of alpha, beta, and gamma subunits, exhibits high activity for ethanol oxidation to acetaldehyde, thus playing a major role in ethanol catabolism. Three genes encoding alpha, beta and gamma subunits are tandemly organized in a genomic segment as a gene cluster. An association between ADH1C polymorphism and alcohol dependence has not been established. [provided by RefSeq, Sep 2019] Transcript Variant: This variant (1) represents the longer transcript and encodes the functional protein.