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Product datasheet for SC320964

ADH4 (NM_000670) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADH4 (NM_000670) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADH4
Synonyms:	ADH-2; HEL-S-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_000670.3
ACGGAACTCCCTGGGTAGGAGTTTGAAGCTTTCTTAACTCAGAAAGAAACTTCCAACACA
GTTTCCCAAAGAAAAATGGGCACCAAGGGCAAAGTTATTAAATGCAAAGCAGCCATCGCC
TGGGAAGCAGGCAAGCCCCTTTGCATTGAAGAGGTTGAAGTAGCTCCCCCCAAGGCTCAT
GAAGTTCGCATTCAGATCATTGCTACCTCCCTGTGCCATACTGATGCCACTGTTATCGAT
TCTAAATTTGAGGGCCTAGCTTTCCCAGTGATCGTTGGCCATGAGGCTGCAGGTATTGTG
GAAAGTATTGGGCCAGGAGTGACCAACGTCAAACCAGGTGACAAAGTAATTCCACTTTAT
GCACCTCTATGTAGAAAATGCAAGTTTTGTCTGAGTCCACTCACAAATTTGTGTGGGAAA
ATCAGTAATCTCAAAAGTCCTGCTAGTGATCAACAACTAATGGAAGACAAAACCAGCAGG
TTTACCTGCAAAGGAAAACCAGTTTACCATTTCTTTGGAACCAGTACATTCTCTCAGTAC
ACTGTGGTGTCAGATATCAATCTTGCCAAAATAGATGATGATGCAAATTTAGAGAGAGTT
TGTCTGCTTGGATGTGGGTTTTCAACTGGCTATGGGGCTGCAATCAACAATGCCAAGGTC
ACCCCTGGTTCGACTTGTGCTGTCTTTGGCCTAGGAGGTGTGGGTCTTTCTGCTGTAATG
GGTTGTAAAGCAGCAGGAGCTTCCAGAATCATAGGTATTGACATCAACAGTGAGAAGTTT
GTGAAGGCTAAAGCCCTGGGAGCCACTGACTGCCTCAATCCTAGAGACTTACATAAACCT
ATCCAGGAAGTTATCATTGAATTGACCAAGGGAGGTGTGGATTTTGCCCTTGACTGTGCA
GGTGGATCTGAAACCATGAAAGCAGCCCTGGACTGTACAACCGCAGGCTGGGGATCATGT
ACTTTCATTGGAGTAGCTGCTGGTAGCAAAGGATTGACTGTTTTTCCAGAGGAGCTAATA
ATCGGCCGTACTATAAATGGAACATTCTTTGGTGGTTGGAAAAGTGTAGATTCTATCCCA
AAGCTGGTCACTGACTATAAGAATAAGAAATTCAATCTGGATGCACTGGTGACCCATACC
CTGCCTTTTGACAAAATCAGTGAGGCATTTGACCTAATGAACCAAGGAAAAAGCATCCGA
ACAATCCTCATCTTTTGAAGATGCCAGGAGCAATTCGGAATACTATCTGATTGAATGTGA
ACCTGCCTGGTTAATTTATTACCTGATTTGATGAACCAAGGAAAGCCATGCGTTTAAACA
AATATTTACATTTAATATGGGAACATAAAAGAGCTTTAAATATTATAGACTTTGTACCTG
TTATATATATGAATATTCCCTATGTTAAATAATAATAATAACTAGTGTTTATGAATAGAA
TCATATCATCTTTAGAAATTGTTTAAAATTAGTTCTGGGAAGTTGAAAGTGGGGAATGAA
GAGATAATAAATAAAACTAGATTGGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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Restriction Sites:	Please inquire
ACCN:	NM_000670
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_000670.3, NP_000661.2
RefSeq Size:	1980 bp
RefSeq ORF:	1143 bp
Locus ID:	127
UniProt ID:	P08319
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 II alcohol dehydrogenase 4 pi 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 II alcohol dehydrogenase is a homodimer composed of 2 pi subunits. It exhibits a high activity for oxidation of long-chain aliphatic alcohols and aromatic alcohols and is less sensitive to pyrazole. This gene is localized to chromosome 4 in the cluster of alcohol dehydrogenase genes. [provided by RefSeq, Jul 2008]
Transcript Variant: This variant (3) differs in the 5' UTR and lacks an exon in the 5' coding region, which results in use of an alternate start codon compared to variant 1. It encodes isoform 2, which is shorter than and has a novel N-terminus compared to isoform 1.