

Product datasheet for **SC320136**

ALDH3B2 (NM_001031615) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALDH3B2 (NM_001031615) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALDH3B2
Synonyms:	ALDH8
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_001031615.1
 GTGAAGAAGGATGTGGTTGCTTCCCCTTCCACCATAACTGATGGACCCCTTCGAGGACAC
 GCTGCGGCGGGCTGCGTGAGGCCTTCAACTGAGGGCGCACGCGCCGGCCGAGTTCGGGGC
 TGCGCAGCTCCAGGGCCTGGGCCACTTCTTCAAGAAAACAAGCAGCTTCTGCGCGACGT
 GCTGGCCCAGGACCTGCATAAGCCAGCTTTCGAGGCAGACATATCTGAGCTCATCCTTTG
 CCAGAACGAGGTTGACTACGCTCTCAAGAACCTGCAGGCCTGGATGAAGGATGAACCACG
 GTCCACGAACCTGTTTCATGAAGCTGGACTCGGTCTTTCATCTGGAAGGAACCCCTTTGGCCT
 GGTCTCATCATCGCACCTGGAACCTACCACTGAACCTGACCCTGGTGCTCCTGGTGGG
 CGCCCTCGCCGAGGGAGTTGCGTGGTGTGAAGCCGTGAGAAATCAGCCAGGGCACAGA
 GAAGGTCTGGCTGAGGTGCTGCCCCAGTACCTGGACCAGAGCTGCTTTGCCGTGGTGT
 GGGCGGACCCAGGAGACAGGGCAGCTGCTAGAGCACAAGTTGGACTACATCTTCTTTCAC
 AGGGAGCCCTCGTGTGGCAAGATTGTCATGACTGCTGCCACCAAGCACCTGACGCCTGT
 CACCCTGGAGCTGGGGGCAAGAACCCTGCTACGTGGACGACAACCTGCGACCCCGAGAC
 CGTGGCCAACCGGTGGCTGGTCTGCTACTTCAATGCCGGCCAGACCTGCGTGGCCCC
 TGACTACGTCCTGTGCAGCCCCGAGATGCAGGAGAGGCTGCTGCCCGCCCTGCAGAGCAC
 CATCACCCGTTTCTATGGCGACGACCCCGAGAGCTCCCAAAACCTGGGCCGCATCATCAA
 CCAGAAAACAGTTCACGCGCTGCGGGCATTGCTGGGCTGCGGCCCGTGGCCATTGGGGG
 CCAGAGCAACGAGAGCGATCGCTACATCGCCCCACGGTGTGGTGGACGTGCAGGAGAC
 GGAGCCTGTGATGCAGGAGGAGATCTTCGGGCCATCCTGCCATCGTGAACGTGCAGAG
 CGTGGACGAGGCCATCAAGTTCATCAACTGGCAGGAGAAGCCCTGGCCCTGTACGCCTT
 CTCCAACAGCAGCCAGGTTGTGAACCAGATGCTGGAGCGGACCAGCAGCGGCAGCTTTGG
 AGGCAATGAGGGCTTACCTACATATCTCTGCTGTCCGTGCCATTCGGGGGAGTCGGCCA
 CAGTGGGATGGGCGGTACCACGGCAAGTTCACCTTCGACACCTTCTCCACCCAGCCGCA
 CTGCCTGCTCGCCCCCTCGGCCTGGAGAAATTAAGGAGATCCACTACCCACCCTATAC
 CGACTGGAACCAGCAGCTGTTACGCTGGGGCATGGGCTCCAGAGCTGTACCCTCTGTG
 AGCGTCCCACCCGCTCCAACGGGTACACAGAGAAAACCTGAGTCTAGCCATGAGGGGCT
 TATGCTCCCAACTCACATTGTTCTCCAGACCGCAGGTTCCCCAGCCTCAGGTTGCTGG
 AGCTGTACATGACTGCATCCTGCCTGCCAGGGCTGCAAAGCAAGGTCTTGCTTCTATCT
 GGGGGACGCTGCTCGAGAGAGGCCAAGAGGCCGAGAACATGCCAGGTGCTCCTACTCAC
 CCCACCCTCCCAATTCCAGCCCTTTGCCCTCTCGGTGAGGTTGGCCAGGCCAGTCCAC
 AGGGGCAGTGTACCCTGAAAATACAGTGCCCTGCCTTCTTAGGGGCATCAGCCCTGAA
 CGGTTGAGAGCGTGGAGCCCTCCAGGCCTTTGCTCTCCCTCTAGGCACACGCGCACTTC
 CACCTCTGCCCATCCCAACTGCACCAGCACTGCCTCCCCAGGGATCCTCTCACATCCC
 AACTGGTCTCTGCACCACCCCTCTGGTTCACACCCGACCCCTGCACTCACCCACAGCAGC
 TCCATCCACTGGGAAAACCTGGGGTTTGCATCACTCCACTGCACAGTGTAGTGGGACCTG
 GGGGCAAGTCCCTTGACTTCTCTGAGCCTCAGTTTCTTATGTGAAAAGTTGCTGGAACCA
 AAATGGAGTCACTTATGCCAACTCTAATAAAATGGAGTCGGGGGGCCACATAGAAGCCC
 TCACACACACATGCCCGTAACAGGATTTATCACAAGACACGCCTGCATGTAGACCAGACA
 CAGGGCGTATGGAAAGCACGCTCCTCAAGACTGTAGTATTCCAGATGAGCTGCAGATGCTT
 ACCTACCACGGCCGTCTCCACCAGAAAACCATCGCCAACCTCCTGCGATCAGCTTGTGACT
 TACAAAACCTGTTTAAAAGCTGCTTACATGGACTTCTGTCTTTAAAAGCTTCCCCTTGG
 CTGTGGCCCTCTGTGATGCCTGGGATCCTTCCAAGCACTCATAGCCAGATAGGAATCC
 TCTGCTCCTCCCAATAAATTCATCTGTCTGGAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001031615

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:	<ol style="list-style-type: none">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_001031615.1 , NP_001026786.1
RefSeq Size:	2504 bp
RefSeq ORF:	1158 bp
Locus ID:	222
Cytogenetics:	11q13.2
Protein Families:	Druggable Genome
Protein Pathways:	Drug metabolism - cytochrome P450, Glycolysis / Gluconeogenesis, Histidine metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Phenylalanine metabolism, Tyrosine metabolism
Gene Summary:	<p>This gene encodes a member of the aldehyde dehydrogenase family, a group of isozymes that may play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. The gene of this particular family member is over 10 kb in length. Altered methylation patterns at this locus have been observed in spermatozoa derived from patients exhibiting reduced fecundity. [provided by RefSeq, Aug 2017]</p> <p>Transcript Variant: This variant (2) represents the shorter transcript. Both variant 1 and 2 encode the same protein.</p>