

Product datasheet for **RG237651**

ALDH3B1 (NM_001290058) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALDH3B1 (NM_001290058) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ALDH3B1
Synonyms:	ALDH4; ALDH7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237651 representing NM_001290058. Blue=ORF Red=Cloning site Green=Tag(s)

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GTGAACCGTCAGAAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTA
CCGAGGAGATCTGCCCGCGCATCGCCGGCGCGCC
ATGGACCCCTTGGGGACACGCTGCGGCGACTGCGGGAGGCCCTTCCACGCGGGGCGCACGCGCCAGCT
GAGTTCGGGGCTGCGCAGCTCCAAGGCCTGGGCCGCTTCTGCAAGAAAACAAGCAGCTTCTGCACGAC
GCACTGGCCAGGACCTGCACAAGTCAGCCTTCGAGTCGGAGGTGTCTGAGGTTGCCATCAGCCAGGGC
GAGGTACCCCTGGCCCTCAGGAACCTCCGGCCTGGATGAAGGACGAGCGTGTGCCAAGAACCTGGCC
ACGCGACTGGACTCCGCCTTCATCCGGAAGGAGCCCTTTGGCCTGGTCTCATCATTGCGCCCTGGAAC
TATCCGCTGAACCTGACGCTGGTGCCCTCGTGGGAGCCCTCGTGCAGGAACTGTGTGGTGTGTAAG
CCATCGGAGATTAGCAAGAAGCTCGAGAAGATCCTGGCCGAGGTGCTGCCCAATACGTGGACCAGAGC
TCCCCAAACCTGGGCCGATCATCAACCAGAAACAGTTCCAGCGGCTGCGGGCATTGCTGGGCTGCGGC
CGTGTGGCCATTGGGGCCAGAGCGATGAGAGCGATCGCTACATCGCCCCACGGTGTGGTGGATGTG
CAGGAGATGGAGCCTGTGATGCAGGAGGAGATCTCGGGCCCATCCTGCCCATCGTGAACGTGCAGAGC
TTGGACGAGGCCATCGAGTTCATCAACCGCGGGAGAAGCCCTGGCCCTGTACGCTTCTCAACAGC
AGCCAGGTGGTCAAGCGGGTGTGACCCAGACCAGCAGCGGGGGCTTCTGTGGAAACGACGGCTTCATG
CACATGACCCTGGCCAGCCTGCCTTTGGAGGAGTGGGTGCCAGTGGGATGGCCCGGTACCATGGCAAG
TTCTCCTCGACACCTTCTCCACCATCGCGCCTGCCTCCTGCGCAGCCCGGGGATGGAGAAGCTCAAC
GCCCTCCGCTACCGCCGCAATCGCCGCGCCGCTGAGGATGCTGCTGGTGGCCATGGAGCCCAAGGC
TGCAGCTGCACACTGCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC

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ACCN:	NM_001290058
ORF Size:	1053 bp
OTI Disclaimer:	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:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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).
RefSeq:	NM_001290058.2
RefSeq Size:	2505 bp
RefSeq ORF:	1056 bp
Locus ID:	221
UniProt ID:	P43353
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
MW:	39.3 kDa
Gene Summary:	This gene encodes a member of the aldehyde dehydrogenase protein family. Aldehyde dehydrogenases are a family of isozymes that may play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. The encoded protein is able to oxidize long-chain fatty aldehydes in vitro, and may play a role in protection from oxidative stress. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]