

Product datasheet for **MG208320**

Aldh1b1 (NM_028270) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh1b1 (NM_028270) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aldh1b1
Synonyms:	2700007F14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208320 representing NM_028270
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGACTGCCGACTCTTGCTGCCCGGCTCCTCTGCCTCCAGGGCAGGACTACCTCTTACTCTACAG
 CAGCTGCTCTCCCGAACCAATCCAAACCCAGAGATTTGCTACAACAAGCTGTTTCATCAACAACGAGTG
 GCATGATGCGGTGAGCAAAAAGACCTTCCCCACAGTGAACCCACTACAGGTGAGGTCATTGGGCATGTG
 GCCGAAGGTGACCGGGCAGATGTGGATCTGGCTGTAAAAGCAGCCCGAGAAGCCTTCCGCCTGGGGTCCC
 CATGGCGCAGGATGGATGCCTCAGAGCGGGGCCGGCTGCTGAACCGCCTAGCTGATCTTGTGGAACGAGA
 TCGAGTGTACTTGGCCTCACTGGAGACGCTAGATAACGGGAAACCTTCCAGGAGTCTTATGTCTTGGAT
 CTGGATGAAGTCATCAAGGTGTACCGTTACTTCGCTGGCTGGGCTGACAAGTGGCATGGTAAACCATCC
 CTATGGATGGTGAGCATTCTGCTTACCCGACATGAGCCAGTGGGTGTCTGTGGCCAGATAATCCCTTG
 GAACTTCCCACTGGTCATGCAGGGCTGGAAGCTGGCCCCGGCACTCGCCACGGGCAACACTGTGGTCATG
 AAGGTGGCAGAGCAGACCCCACTCTGCTCTGTACTTGGCTCCCTCATCAAAGAGCGGGGTTTCCCC
 CAGGAGTGGTGAACATCATCACTGGCTACGGCCCCACGGCGGGAGCTGCCATCGCTCAGCACATGGATGT
 GGATAAGTGCCTTACGGGCTCCACTGAGGTAGGCCACCTGATTGAGAAGGCAGCTGGCGAGTCTAAC
 CTCAAGAGAGTCAACCCTGGAGCTGGGTGGGAAGAGCCCCAGCATTGTGCTGGCAGACGCTGACATGGAGC
 ATGCCGTAGATCAGTGTACGAAGCCCTTTTCTCAACATGGGCCAGTGTCTGTGTCAGGCTCCCGGAC
 ATTCGTGGAAGAGTCCATCTACCGTGAGTTTCTCGAGAGAAGTGTGGAGAAGGCCAAGCAGAGGAAAGTG
 GGAACCCCTTTGAGTTGGACACCCAGCAGGGACCTCAGGTGGACAAGGAGCAGTTTGAACGAATCCTGG
 GCTACATCCGGCTGGGACAGAAGGAAGGGCAAAGCTTCTGTGCGGGGAGCGTTTGGGGGAGCCGG
 CTTCTTCAACAAACCCACAGTCTTCGGGGACGTTTCAGGATGGCATGAGGATCGCCAAGGAGGAGATCTTT
 GGGCCCGTGCAGCCTCTGTTCAAGTTCAGAAGATCGAGGAAGTAAATCCAGAGAGCCAACAAACACAGGT
 ATGGCCTGGCTGCGGCTGTGTTACCCGAGACCTGGACAAGGCCATCTACTTCACGCAGGCCCTGCAAGC
 TGGGACGGTGTGGGTGAACACCTATAACATTGTCACCTGCCACACGCCATTTCGGAGGCTTTAAGGAATCT
 GGCAATGGCAGGGAGCTGGGGGAGGACGGGCTCAGAGCCTACACGGAGGTGAAGACTGTCACCATCAAGG
 TTCCCGAGAAGAATTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208320 representing NM_028270
 Red=Cloning site Green=Tags(s)

MLTARLLLPRLLCLQGRRTSYSTAAALPNPIPNIPEICYNKLFINNEWHDAVSKKTFPTVNPPTTGEVIGHV
 AEGDRADVLDLAVKAAREAFRLGSPWRMDASERGLLNRLADLVERDRVYLASLETLDNGKPFQESYVLD
 LDEVIKVYRYFAGWADKWHGKTIIPMDGEHFCFTRHEPVGVCQIIPWNFPLVMQGWKLAPALATGNTVVM
 KVAEQTPLSALYLASLIKEAGFPVNIITGYGPTAGAAIAQHMDVDKVAFTGSTEVGHLIQKAAGESN
 LKRVTLELGGKSPSIVLADADMEHAVDQCHEALFFNMGCCAGSRTFVEESIYREFLERTVEKAKQRKV
 GNPFEELDTQQGPQVDKEQFERILGYIRLQKEGAKLLCGGERLGERGFFIKPTVFGDVQDGMRIAKEEIF
 GPVQPLFKFKIEEVIQRANTRYGLAAAVFTRDLDAKIYFTQALQAGTVVWNTYNIVTCHTPFGGFKES
 GNGRELGEDGLRAYTEVKTVTIKVPEKNS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

ACCN:	NM_028270
ORF Size:	1557 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).
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_028270.4
RefSeq Size:	2267 bp
RefSeq ORF:	1560 bp
Locus ID:	72535
UniProt ID:	Q9CZS1
Cytogenetics:	4 B1
Gene Summary:	ALDHs play a major role in the detoxification of alcohol-derived acetaldehyde. They are involved in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation (By similarity).[UniProtKB/Swiss-Prot Function]