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Product datasheet for MC200125

Aldh9a1 (BC003297) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh9a1 (BC003297) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Aldh9a1
Synonyms:	AA139417; Abaldh; ESTM40; TMABA-DH; Tmabadh
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>BC003297
CGGACGCTTTGCACGCGTAGCAGATGATCCTCGGTGCAGTCGGTTCTGTGCTGACCTCGCTCCTCCGCAT
TCACCGGGCTGCAGCAGTCGCCGCCATGAGTACTGGCACCTTCGTCGTGTCGCAGCCGCTCAACTACCGC
GGCGGGGCCCGTGTGGAGCCGGTGGATGCTTCCGGCACGGAGAAAGCGTTCGAGCCAGCCACCGGCCGAG
TGATTGCCACTTTCGCGTGTTCAGGAGAAAAGGAAGTAAACTTGGCCGTTGAGAATGCAAAGGCTGCCTT
TAAACTCTGGAGTAAGAAAAGTGGCCTGGAGCGCTGCCAAGTCCTCCTAGAGGCTGCCCGGATCATCAAG
GAGCGGAAGGATGAAATTGCCACCGTGGAGACCATCAACAACGGGAAGTCCATATTTGAGGCCCGCCTGG
ATGTTGACACTTGCTGGCAGTGCCTGGAATACTATGCAGGGCTGGCTGCATCCATGGCAGGCGAGCACAT
TCAGCTCCCAGGAGGGTCCTTCGGCTACACCCGAAGAGAGCCGCTTGGGGTGTGTGTGGGGATAGGAGCA
TGGAACTATCCCTTCCAGATCGCCTGTTGGAAGTCTGCTCCGGCTCTGGCTTGTGGTAATGCCATGATCT
TTAAGCCTTCTCCCTTCACGCCTGTGTCTGCTCTGCTCCTGGCTGAGATCTACACCAAAGCGGGTGCGCC
TCCGGGGCTCTTCAACGTGGTGCAAGGTGGGGCTGCCACAGGCCAGTTTCTGTGTCATCATCGCGAGGTG
GCCAAAATCTCCTTCACCGGAAGTGTGCCCACTGGCGTGAAGATCATGGAGATGTCCGCTAAGGGAGTCA
AGCCCATTACTTTGGAACTTGGGGGCAAATCTCCTCTCATCATCTTCTCAGACTGTAATATGGAGAATGC
TGTGAAGGGGGCCCTGATGGCCAACTTCCTCACACAAGGACAGGTCTGCTGCAATGGGACTAGAGTCTTT
GTGCAAAAGGAAATTGCTGATAAATTCATAAATGAGGTTGTGAAGCAGACTCAGAAGATAAAACTTGGAG
ACCCCCTTCTGGAAGATACGAGGATGGGCCCACTCATCAACGCCCCACATCTGGAACGAGTCCTCGGGTT
TGTCAAGTTGGCAAAGGAGCAGGGTGCTACTGTGCTGTGTGGTGGAGAGGTGTATGTACCAGAGGACCCC
AAATTAAAACATGGATATTACATGACACCTTGCATTTTAACTAATTGCAGAGACGACATGACTTGTGTAA
AAGAAGAGATCTTTGGACCAGTCATGTCCATTTTAACATTTGGAACTGAAGCCGAGGTTCTAGAGCGAGC
TAATGACACCACTTTTGGACTAGCAGCTGGGGTCTTCACCAGGGACATCCAGAGGGCACACCGGGTGGCG
GCTGAGCTGCAGGCTGGAACGTGCTACATTAACAACTATAATGTCAGCCCAGTGGAGCTGCCCTTTGGTG
GCTACAAGAAGTCAGGATTTGGCAGAGAGAATGGCCGTGTGACGATTGAGTACTACTCTCAGCTGAAGAC
GGTGTGTGTGGAGATGGGCGACGTGGAGTCAGCCTTTTGAAACCCAGGGAAGCCTGCTGGCGTAGCCAAG
CTGTGGAATGAGTTGACTGCCTTGACAGGCAGCATAACTGAATAGCTTCTTACATCCAGGCTTTGGGTCA
TTAGTGTGATAACGGGTCAGTGTTGTCCTCTGTCTTACAGTCACCTTCCCAGTTTGAAAATGTGCACAAG
TGCCTTTCAGATGGTAGCCAGGTAACCTGTTGTCCCAGCCCCTGAGAAATATGTAGACCCCAGAAGCGCA
CTCTTCAGACATAGGCAGGCCACAGCTCTGCTCCTACACATTTGTCCCACCAACAATGGCAGCTTTCTAG
TTTGCTTTAAAGCAGGCCTTCCTTCCTGGGTTCCTGGTGAATCAGTACATATACATTCTTTGTTCATTGA
CAACTAAAAAACAAATTCTTAAAGCTTTTATTTGGAGCTGGGCAGTACTGGTATGTGCCTTTAATCCCGG
CACTTGGGAGGCAGAGACAGGTGGATGTCTGAGTTTAGAGCCAGCCTGGTCTACAGAGTGAATTCCAGTC
TAGGAAGGTCTACATAGAGAAATCCTGTCTCAAACAAAACAAAACAAAAAAAAACCCATAAATAAATAAA
AAAATGTAAAAAGCTGTTATTCTTAGTATTTGTGGGCTATGTGACTCATTGGCATTTAAACAGCTGTGTT
CTAACTAACTAGCAAGACAGCTCAGTGGGTAAGGTCTTATCACTTAAACCCAGTGACTTCAGGTTTATCT
CTAGAACCCACCCCTTCCCCATATCATACACTGCACAATAATAAAATCTTTCTCAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: BC003297

Insert Size: 1485 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:	BC003297, AAH03297
RefSeq Size:	2379 bp
RefSeq ORF:	1485 bp
Locus ID:	56752
Cytogenetics:	1 H2.3
Gene Summary:	Converts gamma-trimethylaminobutyraldehyde into gamma-butyrobetaine with high efficiency (in vitro). Can catalyze the irreversible oxidation of a broad range of aldehydes to the corresponding acids in an NAD-dependent reaction, but with low efficiency. [UniProtKB/Swiss-Prot Function]