

Product datasheet for **RR216874**

Aldh7a1 (NM_001271105) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh7a1 (NM_001271105) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh7a1
Synonyms:	antiquitin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RR216874 representing NM_001271105
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTGCGCTGCGCTCGCCGCTCTGCGTGCAGACTGTGAAGGCCAGCAAACCTTCCCGCCTTTGGAGTA
GGCTGCCGCCCTTATGTCTACTCTGCTGATCCATCATCCCAGTATGCCTGGCTGCAAGACCTGGGTCT
CCGCGAAGATAACGAGGGCGTGTAAATGGAAGCTGGGGCGGCCGGGAGAGGTAATTACGACCTATTGT
CCTGCTAAACAATGAGCCAATAGCAAGAGTCCGACAGGCCAGCATGAAAGACTATGAAGAGACTATAGGGA
AAGCCAAGAAAGCTTGGAACTCTGGGCAGATATCTGCCCCAAAGCGAGGAGAAATAGTCAGAAAGAT
TGGCGATGCCTTGGGGAGAAGATCCAATTACTGGGAAGACTGGTGTCTTTGGAGATGGGAAAAATCTTA
GTGGAAGGAATAGGGGAGGTTCCAGGAGTACGTGGACGTCTGCGATTATGCTGCCGCTTGTGAGGATGA
TCGGGGGACCCACCTTGCCTCTGAAAGACCCGGCCATGCTCTCATGGAACAGTGAATCCGTTAGGCT
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TAGCCAAGGTTTTGGAGGACAACCTGCTGCCTGGTGCATTTGCTCCCTGACCTGTGGTGGAGCAGATAT
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CTTCCGCTGGCTTGGACCTAAGGTTTCAGACTGTGGCATTGTGAACGTCAATATTCCTACCAGCGGGCT
GAGATCGGCGGTGCGTTTGGAGGCGAGAAGCACACGGCGGTGGCAGGGAATCTGGCAGCGATGCCTGGA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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Red=Cloning site Green=Tags(s)

MLRLARPLCVQTVKASKLSRLWSRPAALMSTLLIHHPQYAWLQDLGLREDNEGVFNWSWGGRGEVITTYC
PANNEPIARVRQASMKYEETIGKAKKAWNIWADIPAPKRGEIVRKIGDALREKIQLLGRVLSLEMGKIL
VEGIGEVQEYVDVCDYAAGLSRMIIGPTLPSEPRGHALMEQWNPLGLVGIITAFNFPVAVFGWNNIALI
TGNVCLWKGAPTTSLVSIKVIKIAKVLNLLPGAICSLTCGGADMGTAMARDERNLLSFTGSTQVQK
QVALMVQERFGKSLLELGGNNAIIAFEDADLSLVLPSALFAAVGTAGQRCTTVRRLFLHESIHDVVDRL
KNAYSQIRVGNPWPNIILYGPLHTKQAVSMFVQAVEEAKKEGGTVVYGGKVMHPGNYVEPTIVTGLVHD
APIVHKETFAPILYVFKFKNEEEVFENNEVKQGLSSSIFTKDLGRIFRWLGPKGSDCGIVNVIPTSGA
EIGGAFGGKHTGGRESGSDAWKQYMRRSTCTINYSTALPLAQGIKFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

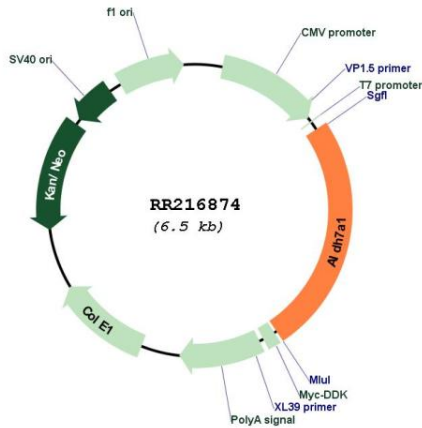
SgfI-MluI

Cytogenetics: 18q12.1

MW: 58.7 kDa

Gene Summary: Multifunctional enzyme mediating important protective effects. Metabolizes betaine aldehyde to betaine, an important cellular osmolyte and methyl donor. Protects cells from oxidative stress by metabolizing a number of lipid peroxidation-derived aldehydes. Involved in lysine catabolism (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR216874