

Product datasheet for **RC223398**

Aldehyde dehydrogenase 10 (ALDH3A2) (NM_000382) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Aldehyde dehydrogenase 10 (ALDH3A2) (NM_000382) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Aldehyde dehydrogenase 10 |
| Synonyms: | ALDH10; FALDH; SLS |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC223398 representing NM_000382
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTCGAAGTCCGGCGGGTCCGACAGCGCTTCTGTCCGGCCGGTCCGACCTCTGCGGTTTCGGC
 TGCAGCAGCTGGAGGCCCTGCGGAGGATGGTGCAGGAGCGGAGAAGGATATCCTGACGGCCATCGCCGC
 CGACCTGTGCAAGAGTGAATTCAATGTGTACAGTCAGGAAGTCATTACTGTCCTTGGGAAATTGATTTT
 ATGCTTGAGAATCTTCTGAATGGGTTACTGCTAAACCAGTTAAGAAGAAGCTGCTCACCATGCTGGATG
 AGGCCTATATTCAGCCACAGCCTCTGGGAGTGGTGTGATAATCGGAGCTTGAATTACCCCTTCGTTCT
 CACCATTAGCCACTGATAGGAGCCATCGCTGCAGGAAATGCTGTGATTATAAAGCCTTCTGAAGTGA
 GAAAATACAGCCAAGATCTTGGCAAAGCTTCTCCCTCAGTATTTAGACCAGGATCTCTATATTGTTATTA
 ATGGTGGTGTGAGGAAACCACGGAGCTCTGAAGCAGCGATTTGACCACATTTTCTATACGGGAAACAC
 TCGCGTTGGCAAATGTCATGGAAGCTGCTGCCAAGCATCTGACCCCTGTGACTCTTGAAGTGGGAGGG
 AAAAGTCCATGTTATATTGATAAAGATTGTGACCTGGACATTGTTTGCAGACGCATAACCTGGGGAAAT
 ACATGAATTGTGGCCAAACCTGCATTGCACCCGACTATATTCTCTGTGAAGCATCCCTCCAAATCAAAT
 TGTATGGAAGATTAAGGAAACAGTGAAGGAATTTTATGGAGAAAATATAAAAAGAGTCTCCTGATTATGAA
 AGGATCATCAATCTTCGTCATTTAAGAGGATACTAAGTTTGGCTTGAAGGACAAAAGATAGCTTTTGGTG
 GGGAGACTGATGAGGCCACACGCTACATAGCCCAACAGTACTTACCGATGTTGATCCTAAAACCAAGGT
 GATGCAAGAAGAAATTTTGGACCAATCTTCCAATAGTGCCTGTGAAAAATGTAGATGAGGCCATAAAT
 TTCATAAATGAACGTGAAAAGCCTCTGGCTCTTTATGTATTTTCGATAACCATAAGCTCATCAAACGGA
 TGATTTGATGAGACATCCAGTGGAGGTGCACAGGCAATGACGTCATTATGCACTTCACGCTCAACTTTTCT
 CCCATTTGGAGGAGTGGGTTCCAGTGGGATGGGAGCTTATCACGGAACATAGTTTTGATACTTTTTCT
 CATCAGCGTCCCTGTTTATTA AAAAGTTTAAAGAGAGAAGGTGCTAACAACTCAGATATCTCCCAACA
 GCCAGTCAAAGGTGGATTGGGAAAATTTTTCTCTTGAACGGTTCAACAAAGAAAAACTCGGTCTCCT
 GTTGCTCACTTCTGGGATTGTAGCCGCTGTGCTTGTCAAGGCAGAATATTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223398 representing NM_000382
 Red=Cloning site Green=Tags(s)

MELEVRRVRQAFLSGRSRPLRFRLQQLLEALRRMVQEREKDI LTAIADLCKSEFNVYSQEVITVLGEIDF
 MLENLPEWVTAKPVKKNVLTMLDEAYIQPQLGVVLIIGAWNYPFVLTIQPLIGAI AAGNAVIIKPSLS
 ENTAKILAKLLPQYLDQDLYIVINGGVEETTELLKQRFDHIFYTGNTAVGKIVMEAAAKHLTPVTLELGG
 KSPCYIDKDCDLDIVCRRITWGYMNCGQTCIAPDYILCEASLQNI VVKIKETVKEFYGENIKESPDYE
 RIINLRHFKRILSLEGGQKIAFGGETDEATRYIAPT VLTVDVDPKTKVMQEEIFGPILPIVPKVNDEAIN
 FINEREKPLALYVFSHNHKLIKRMIDETSSGGVTGNDVIMHFTLNSFPFGG VSSGMGAYHGKHSFDTF
 HQRPLCLKSLKREGANKLRYPPNSQSKVDWGFLLKRFNKEKLG LLLL TFLGIVA AVLKAEYY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4236_d10.zip

Restriction Sites:

Sgfl-MluI

Domains: aldedh

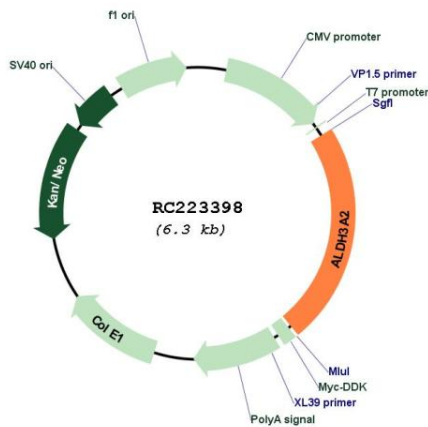
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Arginine and proline metabolism, Ascorbate and aldarate metabolism, beta-Alanine metabolism, Butanoate metabolism, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Limonene and pinene degradation, Lysine degradation, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation

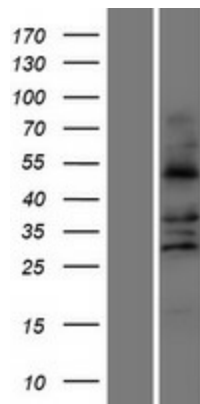
MW: 54.7 kDa

Gene Summary: Aldehyde dehydrogenase isozymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. This gene product catalyzes the oxidation of long-chain aliphatic aldehydes to fatty acid. Mutations in the gene cause Sjogren-Larsson syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

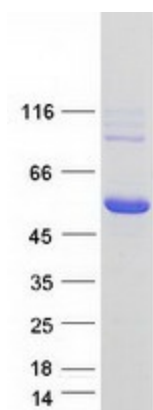
Product images:



Circular map for RC223398



Western blot validation of overexpression lysate (Cat# [LY424751]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223398 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ALDH3A2 protein (Cat# [TP323398]). The protein was produced from HEK293T cells transfected with ALDH3A2 cDNA clone (Cat# RC223398) using MegaTran 2.0 (Cat# [TT210002]).