

Product datasheet for **MR211117**

Aldh1l1 (NM_027406) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh1l1 (NM_027406) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh1l1
Synonyms:	1810048F20Rik; FDH; Fthfd; Neut2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR211117 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGATTGCAGTAATCGGGCAGAGCCTGTTTGCCAGGAGTTTACTGCCAGCTAAGGAAGGAGGGCC
 ATGAGGTGGTGGGTGTGTTACCCATCCCAGACAAGGATGGGAAAGCAGATCCCCTGGGCCTGGAGGCCGA
 GAAGGATGGCGTGCCCGTGTAAAGTTCCTCGGTGGCGGGCTCGAGGACAGGCTCTGCCGAGGTCGTG
 GCCAAGTACCAGGCTCTGGGTGCAGAACTCAACGTGCTCCCTTCTGCAGCCAGTTCATACCCATGGAGG
 TCATCAATGCCCCCGGCATGGCTCCATCATCTACCATCCATCTCTGCTGCCAGGCACCGAGGGCCCTC
 AGCCATCAACTGGACCCTCATTTCATGGAGATAAGAAAGGAGGCTTCACTATCTTCTGGGCTGATGACGGT
 CTGGACTGGTACCTTCTGCTGCAGAAGGAGTGTGACGTGCTCCAGATGACACCGTGAGCACGCTGT
 ACAACCGTTTCTTCCAGAGGGCATCAAAGGATGGTTCAAGCTGTGCGACTGATTGCAGAGGGCAC
 AGCCCCACGCCGTCCCCAGCCTGAGGAAGGAGCCACCTATGAGGGCATTAGAAAAGGAGACAGCCATG
 ATCAACTGGGACAGCCAGCAGAGGCCATTCAACTGGATCCGTGGGAATGACAAGGTGCCAGGTGCCCT
 GGACAGAGGCTTGTGGGAGAAGCTGACGTTTTTCAACTCGACACTCAACTTTCAGGACTGGTGGCTCA
 GGGAGAAGCTCTACCCATCCCAGGAGCCATCGTCCAGGCCTAGTCACCAAAGCGGGACTCATCCTCTTT
 GGGAAATGATGATAGAATGTTGCTGGTGAAGAATATCCAGCTGGAAGATGGCAAGATGATGCCAGCCTCCC
 AGTTCTTCAAGGGGTCTGCTAGCAGTGCCTGGAGCTGACCGAGGAGGAGCTGGCCACAGCAGAGGCCGT
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 GGAGCTGCATCCGTAGATGTTGTGAGGCTGGTGGAGGAGTGAAGGAGCTGTGTGACGGGCTGGAGTTAG
 AAAATGAGGATGTTTACATGGCCACCCTTCGGGGACTTCATCCAGCTCCTAGTGAGGAAGTTGAGAGG
 GGAGGACGGCGAGAGCGAGTGTGTCATTAAGTACGTGGAAAAGGCAAGTGAAGAACTGACTCTCCAATG
 CCTACCAGCTCTTATAGGCGCGAGTTTGTGGATGCTGAGGGCGGAAGACCTACAGTACCATAAACC
 CAACGGATGGAAGTGTCTCTGCCAGGTGTCTCTAGCTCAGGTGAGTGTGTTGACAAGGCGGTGGCAGC
 AGCGAAGGAGGCCTTTGAGAATGGACTGTGGGAAAGATAAATGCGCGTGACCGGGGCGGCTCTGTAC
 AGGTTGGCGGACCTCATGGAGCAGCACCAGGAAGACTAGCCACCATTGAGGCCCTGGACGAGGTGCCG
 TCTACACGCTGGCCCTGAAGACGCATGTGGCATGTCCATCCAGACCTCCGATACTTCTGCTGGCTGGT
 TGATAAGATCCAGGTGCCACCATCCCCATCAACCAGGCTAGACCAACCGAACCTGACCTTGACCAAG
 AAGGAACCTGTTGGGGTCTGTGGTATTGTATCCCTGGAATATCCCTAATGATGCTGTCTGGAAGA
 CAGCAGCCTGCCTGGCTGCCGGAAACACCGTGGTATCAAGCCTGCCAGGTGACCCCACTCACAGCCTT
 GAAGTTTGCAGAGCTGACACTGAAGGCTGGCATTCCAAGGGTGTGGTCAACATCCTCCCAGGATCTGGC
 TCGCTGGTTGGCCAGAGACTCTCAGACCACCTGATGTGAGGAAAATAGGGTTACAGGCTCCACGGAGG
 TGGGAAAACACATCATGAAAAGCTGTGCCCTGAGTAATGTGAAGAAGGTCTCCCTGGAGCTGGTGGAAA
 GTCACCCCTTATCATCTTTGCTGACTGTGACCTCAACAAAGCTGTGCAGATGGGCATGAGCTCCGTTTTT
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 CCCGCAGAACCATGAGGCCACCTGAGGAAGCTGGTGGAGTATTGCCAACGTGGTGTGAAGGAAGGGGCC
 AACTGGTCTGTGGTGGGAACCAAGTCCAAGGCCAGGCTTCTTCTTTCAGCCAACCGTTTTTCACAGAG
 TGGAGGACCACATGTACATCGCTAAGGAGGAGTCTTTCGGGCCATCATGATCATCTCTCGTTTTGCTGA
 TGGGGACGTGGATGCAGTGTATCTCGGCCAATGCTACAGAAATTTGGCCTGGCCTCTGGTGTCTTCACT
 CGGGATATCAACAAGGCCCTGTATGTGAGTACAACTGCAGGCGGGCACTGTGTTTGTCAACACATACA
 ACAAGACCGATGTGGCCGACCTTTTGGAGGATCAAGCAGTCTGGATTTGGCAAAGACCTGGGAGAGGC
 GGCCTGAATGAGTACCTGCGGATCAAGACTGTGACTTTTGTAGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211117 protein sequence
 Red=Cloning site Green=Tags(s)

MKIAVIGQSLFGQEVYCQLRKEGHEVVGVTIPDKDGKADPLGLEAEKDGVPVFKFPRWRARGQALPEVV
 AKYQALGAELNVLPFCSQFIPMEVINAPRHGSIYHPSLLPRHRGASAINWTLIHGDKKGGFTIFWADDG
 LDTGDL LLQKCEDVLPDDTVSTLYNRFLFPEGIKGMVQAVRLIAEGTAPRRPQPEEGATYEGIQKKEAM
 INWDQPAEAIHNWIRGNDKVPGAWTEACGQKLTFNNTLNTSGLVAQGEALPIPGAHRPGLVTKAGLILF
 GNDDRMLLVKNIQLEDGKMPASQFFKGSASSALEL TEEELATAEAVRSSWMRILPNVPEVEDSTDFFKS
 GAASVDVVRVVEEVKELCDGLELENEVYMATTFGDFIQLLVRKLRGEDGESECVINIVEKAVKCLTLQM
 PYQLFIGGEFVDAEGAKTYSTINPTDGSVICQVSLAQVSDVDKAVAAAKEAFENGLWGKINARDGRLLY
 RLADLMEHQEELATIEALDAGAVYTLALKTHVGMISIQTFRYFAGWCDKIQGATIPINQARPNRNLTLTK
 KEPVGVCGIVIPWNYPLMMLSWKTAACLAAGNTVVIKPAQVTPLTALKFAELTLKAGIPKGVNINILPGSG
 SLVGQRLSDHPDVRKIGFTGSTEVGKHIMKSCALSNVKKVSELEGGKSPLIIFADCDLNKAVQMGMSVF
 FNKGENCIAAGRLFVEDSIHQFVQKVVEEVGKMKIGNPLDRDNTNHPQNHEAHLRKLVEYQGRGVKEGA
 TLVCGGNQVPRPGFFQPTVFTDVEDHMYIAKEESFGPIMIISRFADGDVDAVLSRANATEFGLASGVFT
 RDINKALYVSDKLQAGTVFVNTYNKTDVAAPFGGFKQSGFGKDLGEAALNEYLRIKTVTFEY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

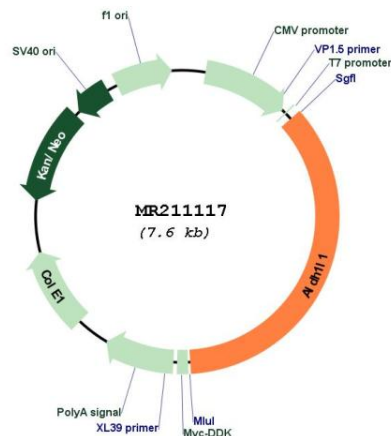
Cloning Scheme:



ACCN: NM_027406

ORF Size:	2709 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_027406.2
RefSeq Size:	3098 bp
RefSeq ORF:	2709 bp
Locus ID:	107747
UniProt ID:	Q8R0Y6
Cytogenetics:	6 D1
MW:	98.7 kDa

Product images:



Circular map for MR211117