

Product datasheet for **MR210729**

Aldh16a1 (NM_145954) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh16a1 (NM_145954) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh16a1
Synonyms:	2410004H02Rik; AI452234; mFLJ00209
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210729 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCTACGGTGTACAGCCAGTACCCGGGAGATTTTCACGACGCTGGAGTACGGACCGGTGCCGG
 AGAGCCACGCATGCGCACTGGCCTGGCTGGACACCACAACCGCCTCTTGGGCCACCATGTCAATGGGAT
 GTGGCTGAAGCCAGAACACAGGAATCCAGCGCCTTGCCAGGATCCCATCACAGGAGAAAACTGGCCAGC
 TGCTTGAAGCAGAGGCTGAGGACATCGCTGCAGCTGTGGAGGCTGCAAAGATAGCATTCAAGCCCTGGA
 GCCAACTCCCTGGAGTCTCGGGGACAACACCTAACCCGGCTGGCCAAGGTCGTTTCAAGCACCAGCG
 ACTGCTGTGGACCCTGGAATCCCTGGTCACTGGACGGGCTGTTTCGAGAGGTTTCGAGATGGAGATGTCCA
 CTGGCCCAGCAACTGCTCCAGTACCATGCAGTCCAGGCACATGCCAGGGTGACGCACTGGCAGACTGGC
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 GCTCAGCTGGCAGGAGAGCTTGGCTCTTCCCAGGGATCCTCAATGTGGTATGTGGCCCTGCCTCGCTGG
 GGCTGTCTGGCCTCCCAACCTGGAGTCCAGAAGGTGGCTTTCTGCGGAGCCGTGGAGGAAGGACGTGT
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 GACCTGGCCAGAGCTTGTGGATGAGGCCAAAGCCAAGGGGGACAGGTATTCCAAGCTGGTGTGATGTC
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 AGGCCCTGTGGCTGCCAATGGGGAC

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Protein Sequence:

>MR210729 protein sequence

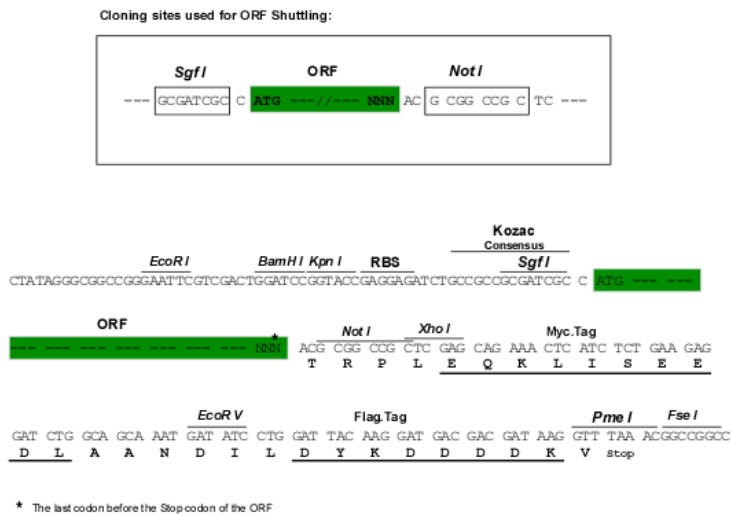
Red=Cloning site Green=Tags(s)

MAATRVQPSTREIFTTLEYGVPESHACALAWLDTHNRLLGHHVNGMWLKPEHRNPAPCQDPITGENLAS
CLQAEAEIDIAAAVEAAKIAFKAWSQLPGAARGQHLTRLAKVVQKHQRLLWTLESLVTGRAVREVRDGDVP
LAQQLLQYHAVQHAHQGDALADWQPVGVIGLILPTPFSFLDMMWRVCPALAMGCTVVALVPPAFPTPLLL
AQLAGELGSFPGILNVVCGPASLGPVLASQPGVQKVAFCGAVEEGRVLRRTLGRGAELGLALGTESLLL
LMDSADVDSAVEGVVDVAVWSDRSLGGLRLLIQESVWDEAMRRLQARMAQIRSGRGLDGAVDMGARGAAAR
DLAQSFVDEAQSQGGQVFQAGDVPSSSPFFSPALVSGLPPAAPCAQAEVWPVVMASPFRTVKEALALAN
GTPRGGSASVWSERLGGALELGYGLQVGTVINAHGLRDPVPTGGCKESGSSWHGGPDGLYEYLQPLGT
PSQESFLCENINYDTFGLAASSILPSGPETGSPAPPYGLFVGGRFQSPGTQSSRPIQDSSGKVSSVYAE
GGAKDIRGAVEAAHQAPGWGAQSPRARAGLLWALAAALERRKPVLTSQLERHGAAPTVAKIEVELSVRR
LQTWGTRVQDQQTQLQVTGLRGPVLRRLREPLGVLAVVCPDEWPLLA FVSLLAPALAHGNAVVLVPSGACP
LLALEVCQDIAPLFPAGLVSVVTGDRDHLTRCLALHQDVQALWYFGSAQGSQFVEWASAGNLKSVVWNRG
FPRAWDVEVQGAGQELSLHAARTKALWLPMD

TRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-NotI

Cloning Scheme:


ACCN: NM_145954

ORF Size: 2409 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:**
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_145954.2](#)

RefSeq Size: 2586 bp

RefSeq ORF: 2409 bp

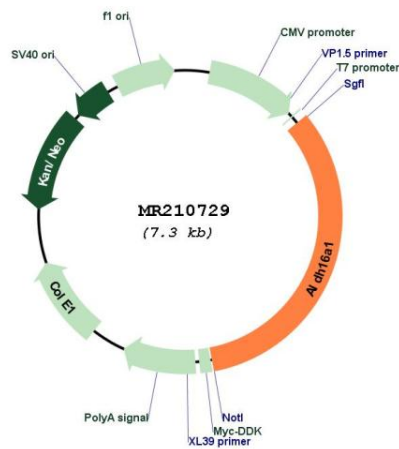
Locus ID: 69748

UniProt ID: [Q57119](#)

Cytogenetics: 7 B3

MW: 84.8 kDa

Product images:



Circular map for MR210729