

Product datasheet for **RR204530**

Aldh16a1 (NM_001033706) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh16a1 (NM_001033706) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh16a1
Synonyms:	MGC124726
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RR204530 representing NM_001033706
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCTACGGGTATACAGCCCTCTACCCGTGAGATTTTCACGACGCTGGAGTACGGACCGGTGCCGG
 AGAGCCACGCATGCGCACTGGCCTGGCTGGACACCACAATCGCCTCTTGGGCCACTATGTCAATGGGAT
 GTGGCTGAAGCCAGAACACAGGAATCCAGCGCCTTGCCAGGATCCCATCACAGGAGAAAACCTGGCCAGC
 TGCTGCAAGCAGAGGCCGAGGACATCTCTGCAGCTGTGGAGGCTGCAAGGATAACATTCAAGACCTGGA
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 CCTGCTGTGGACCCTGGAGTCCCTGGTCACTGGCGGGCTGTTGAGAAGTTCGAGATGGGGATATACCA
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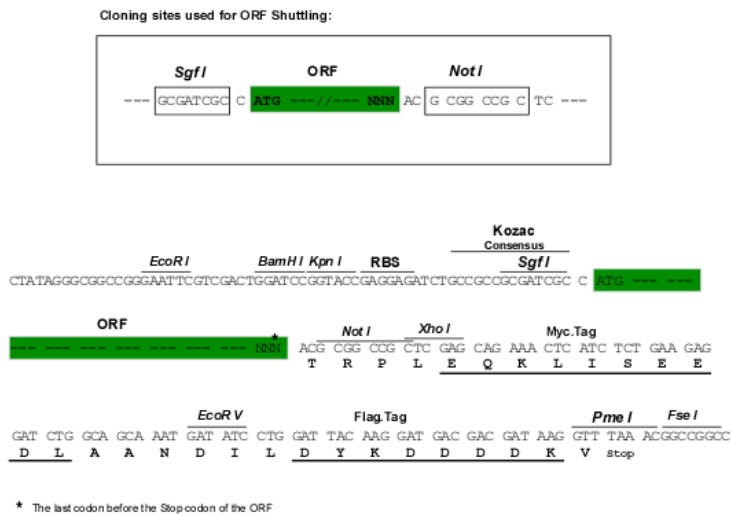
ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGA
TTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204530 representing NM_001033706
Red=Cloning site Green=Tags(s)

MAATRIQPSTREIFTTLEYGVPVESHACALAWLDTHNRLLGHYVNGMWLKPEHRNPAPCQDPITGENLAS
CLQAEAEDISAAVEAARITFKTWSQLPGTARGQHLTRLAKVIQKHQRLLWTLESLVTGRAVREVRDGDIP
LAQQLLHYHALQAHQDSALADWEPLGVIIGLILPTSFSLDMMWRVCPALAMGCTVVALVPPSFPTPLLL
AQLAGELGSFPGILNVVCGPVSLGPVLASQPGVQKVAFCGAVEEGRALRQTLAGRGATLGLALGTESLLL
LTDSDVDSAVEGVVDVAVWSDRSLGGLRLLIQESVWDEAMKRLQARMAQIRSGKGLDGAVDMGARGAAAR
DLAQSFVDEAQSQGGQVFQAGDMPSNSPFFSPTLVSGLPPAAPCAQAEVPWPVVMASPFRTVKEALALAN
GTPRGGSASVWSERLQQAELGYGLQVGTVWINAHGLRDPVPTGGCKESGSSWHGGPDGLYEYLQLLGT
PYRESFLCESLNYDTFGLAVSSSLPSGPETGSPAPPYGLFVRGRFQSPGTQSSRPKIDSSGKVSSYVAE
GGAKDIRGAVEAAHQAPGWAQSPRARASLLWALAAALERRKQVLAQLERHGAAPTVAETEVELSVRR
LQTWATRVDQDQTLQVTGLRGPVLRRLREPLGVLAVVCPDEWPMLAFVSLLAPALAHGNAVVLVPSGSCP
LLALEACQDIAALFPAGLVNVVTGDRDHLTRCLALHQDVQAMWYFGSAQGSQFVEWASAGNLKPVVWNRD
FPRAWDVEVQGSEQELSLHAARTKALWLPMD

TRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-NotI

Cloning Scheme:


ACCN: NM_001033706

ORF Size: 2406 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_001033706.1](#), [NP_001028878.1](#)

RefSeq Size: 2591 bp

RefSeq ORF: 2409 bp

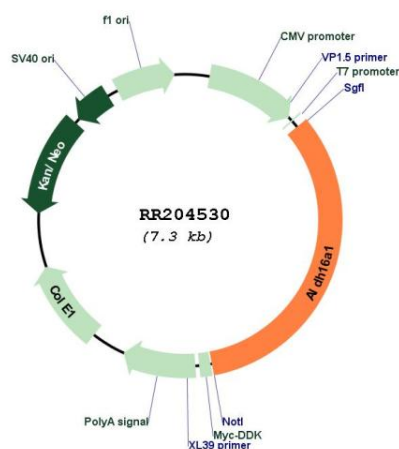
Locus ID: 361571

UniProt ID: [Q3T1L0](#)

Cytogenetics: 1q22

MW: 85.4 kDa

Product images:



Circular map for RR204530