

Product datasheet for **RR214016**

Aldh6a1 (NM_031057) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh6a1 (NM_031057) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aldh6a1
Synonyms:	Mmsdh
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR214016 representing NM_031057
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGCAGTGGCGCAGCAGCAGTGGGTCCGGATCCTGCAGGTTTCTTAAAGTAACT
 CCACATGGTGTCCAGCATCTTCTTCTTCATCATCAGTGCCAACTGTAAGCTCTTCATTGATGGGAA
 ATTCGTTGAATCCAAAAGTGACAAATGGATTGACATCCACAACCCAGCCACCAATGAGGTTGTTGGTCGG
 GTTCCTCAGTCCACAAAGCTGAAATGGAGGCAGCCGTAGCCGCCTGCAAACGTGCTTCCCTGCGTGGG
 CAGACACATCTATTTAAGCCGGCAGCAGGTCCTGCTTCTGTTATCAGCAACTCATTAAAGAAAACCTGAA
 AGAAATCGCCAGGTTAATCACATTGGAACAAGGGAAGACTCTGGCTGATGCTGAAGGAGATGTGTTCCGA
 GGCCTTCAGTGGTTGAGCATGCCTGCAGTGTGACGTCCCTCATGCTGGGAGAGACCATGCCATCTATCA
 CAAAGACATGGACCTTTATTCCTACCGCTGCCTCTGGGGTGTGTGCAGGCATCGACCATTTAATTT
 TCCTGCCATGATCCCCCTTTGGATGTTTCCCATGGCTATGGTTTGTGAAATACTTTCCTAATGAAACCA
 TCAGAGCGAGTACCTGGAGCAACCATGCTTCTGCTAAGTTGCTTCAGGATTCGGTGCCCCGGACGGAA
 CACTGAACATCATCCATGGACAACATGAAGCTGTAATTTTATTTGCGATCATCCAGACATCAAGGCAAT
 CAGCTTTGTGGGATCCAACAGGCGGGAGAGTACATCTTCGAAAGAGGGTCAAGAAATGGCAAGAGGGTT
 CAAGCCAATATGGGAGCCAAGAACCATGGGGTAGTCATGCCAGATGCCAATAAGGAAAATACCCTCAACC
 AGCTGGTTGGGGCAGCATTTGGAGCTGTGGGCAGCGTGCATGGCTCTTTCAACAGCCGTCCTTGTTGGG
 AGAAGCTAAGAAGTGGCTGCCAGAACTGGTAGAGCGTGCCAAGAATCTCCGCGTCAATGCAGGAGATCAG
 CCTGGAGCTGATCTTGGTCCCCGATCACCCCCAGGCCAAAGAGAGAGTCTGCAATCTGATTGATAGTG
 GAGCAAAAAGAGGGGGCTTCCATCCTTCTGGATGGCGGAAAATTAAGTTAAGGGTACGAAAACGGTAA
 CTTTGTGGACCAACCATCATCTCCAATGTTAAGCCAAGTATGACTTGTACAAAGAGGAGATTTTGGT
 CCAGTCTTGTGGTCTTAGAGACAGAAACCCTGGATGAAGCCATCAAGATTGTTAATGACAACCCATATG
 GAAACGGGACTGCTATCTTTACCACCAACGGAGCCATAGCTCGGAAATACGCTCACATGGTGGATGTGGG
 ACAGGTGGGCGTGAATGTCCCCATTCCAGTGCCTTTGCCAATGTTTTCTTCACTGGCTCTCGATCTTCC
 TTCAGGGGAGACACCAATTTCTATGGCAACAGGGCATCCAGTTTACACTCAGTTAAAGACTATCACAT
 CTCAGTGAAGGAAGAAGATGCTACTCTTCTCACCTGCAGTGGTCATGCCTACCATGGGGCGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214016 representing NM_031057
 Red=Cloning site Green=Tags(s)

MAAAVAAAAAVRSRILQVSSKVNSTWCPASSFSSSSVPTVKLFIDGKFVESKSDKWIDIHNPATNEVVGR
 VPQSTKAEMEAAVAACKRAFPWADTSILSRQQVLLRYQQLIKENLKEIARLITLQGKTLADAEGDVFR
 GLQVVEHACSVTSLMLGETMPSITKMDLYSYRLPLGVCAGIAPFNFPAMIPLWFMFPMAMVCGNTFLMKP
 SERVPGATMLLAKLLQDSGAPDGLNIIHGQHEAVNFI CDHPDIKAI SFVGSNQAGEYIFERGSRNGKRV
 QANMGAKNHGVVMPDANKENTLNQLVGAAGAGQRCMALSTAVLVGEAKKWLPELVERAKNLRVNAGDQ
 PGADLGPLITPQAKERVNCLIDSGAKEGASILLDGRKIKVKGYENGFVGPITII SNVKPSMTCYKEEIFG
 PVLVVLETETLDEAIKIVNDNPYNGNTAIFTTNGAIARKYAHMVDVGVGVNVIIPVPLPMFSFTGSRSS
 FRGDTNFYGKQGIQFYTLKTTISQWKEEDATLSSPAVVMPTMGR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ACCN:	NM_031057
ORF Size:	1605 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_031057.2 , NP_112319.2
RefSeq Size:	3333 bp
RefSeq ORF:	1608 bp
Locus ID:	81708
UniProt ID:	Q02253
Cytogenetics:	6q31
MW:	57.7 kDa
Gene Summary:	Plays a role in valine and pyrimidine metabolism. Binds fatty acyl-CoA.[UniProtKB/Swiss-Prot Function]