

Product datasheet for **RN210693**

Aldh1l1 (NM_022547) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh1l1 (NM_022547) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Aldh1l1
Synonyms:	FDH; Fthfd
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN210693 representing NM_022547
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGATTGCAGTAATCGGACAGAGCCTGTTTGCCAGGAGTTTACTGCCAGCTGAGGAAGGAGGGCC
 ACGAGGTGGTGGGTGTGTTCAACAATCCCAGACAAGGATGGGAAAGCAGACCCCCTGGGCCTGGAGGCTGA
 GAAGGATGGCCGTGCCGTGTTCAAGTTTCTCGGTGGCGTGCTCGGGGACAGGCTCTGCCGAGGTGGTG
 GCCAAATACCAGGCTCTGGGTGCAGAGCTCAATGTGCTTCCCTTCTGCAGCCAGTTCATACCCATGGAGG
 TCATTAATGCCCCAGGCACGGCTCCATCATCTACCATCCATCCCTGCTACCCAGGCATCGAGGGCTTC
 GGCCATCAACTGGACCCTCATTGATGAGATAAGAAAGGAGGCTTACCATCTTCTGGGCTGATGATGGC
 CTGGACTGGTACCTTCTGCTGCAGAAGGAGTGTGAGGTGCTCCAGATGACACCGTGAGCACGCTGT
 ACAATCGTTTCTTCCAGAGGGCATCAAAGGATGGTTGAGGCTGTGCGACTGATCGCAGAGGGTAC
 AGCCCCCGCTGCCCCAGTCTGAGGAAGGAGCCACCTATGAGGGCATTGAGAAGGAGAGACAGCCAAG
 ATCAATTGGGACCAGCCAGCAGAGGCCATTCACAACTGGATCCGTGGGAATGACAAGGTGCCAGGTGCCCT
 GGACAGAGGCTTGTGGGAGAAGCTGACATTTTTCAACTCGACACTCAACTTCAAGACTGTCAACCCA
 GGGAGAAGCTTTACCATCCCAGGAGCCATCGTCCAGGCGTGGTACCACAAAGCAGGACTCATCCTCTTT
 GGGAAATGAGCATAGAATGTTGCTGGTGAAGAATCCAGCTGGAAGATGGCAAGATGATGCCAGCCTCCC
 AGTTCTTCAAGGGGTCCGCTAGCAGTGACTGGAGCTGACAGAGGCGGAGTTGGCCACGGCGGAGGCTGT
 GCGGAGCTCTGGATGCGAATCCTGCCGAACGTCCCAGAGGTGGAAGACTCTACAGATTTCTTCAAGTCA
 GGAGTCTTCTGTAGATGTTGTGAGGCTGGTGGAGGAAGTGAAGGAGCTGTGTGACGGGCTGGAGTTAG
 AAAATGAAGACGTTTACATGGCCACCCTTTAGGGAGTTTATCCAGCTCCTAGTGAGGAAGCTGAGAGG
 GGAGGACGACGAGAGCGAGTGTGTCATAACTACGTGGAAGGGCAGTGAACAAGCTGACTCTCCAATG
 CCTACCAGCTTTCATAGGCGCGAGTTCGTGGACGCTGAGGGCTCTAAGACCTACAATACCATCAACC
 CAACGGATGGAAGTGTCATCTGCCAGGTGTCCCTGGCTCAGTGAGCGATGTTGACAAGGAGTGGCAGC
 AGCAAAGGAAGCCTTCGAGAACGGACTGTGGGAAAGATAAATGCTCGTGACCGGGGCGGCTCCTGTAC
 AGGTTGGCGGATGTCATGGAGCAGCACCAGGAAGAGCTAGCCACCATTGAGGCCCTGGATCGAGGTGCCG
 TCTACACGCTGGCCCTGAAGACGCACGTGGCATGTCCATCCAGACCTTCCGGTACTTTGCTGGCTGGTG
 TGATAAGATCCAGGTGCCACCATCCCCATCAACCAGGCTAGACCAACCGCAACCTGACCTTGACCAAG
 AAGGAACCTGTTGGGCTGTGGCATTGTATCCCTGGAATATCCCTAATGATGCTATCCTGGAAGA
 CTGCAGCCTGCCTGGCGGCTGGGAACACCGTGGTATCAAGCCTGCCAGGTGACCCCACTCACAGCCTT
 GAAGTTTGCCGAGCTGACACTGAAGGCTGGCATTCCAAGGGTGTGGTCAACATCCTCCCAGGATCTGGA
 TCCTGTTGGCCAGAGACTCTCAGACCACCCTGATGTGAGGAAAATAGGGTTACAGGCTCCACGGAGG
 TGGGGAACACATCATGAAAAGCTGTGCTCTGAGCAACGTGAAGAAAGTCTCCCTGGAGCTGGTGGAAA
 GTCACCCCTTATCATATTTGCTGACTGCGACCTCAACAAGGCCGTGCAGATGGGCATGAGCTCCGTTTTT
 TTCAACAAAGGGGAGAACTGCATTGCGGCAGGCCGCTCTTTGTGGAGGAGTCCATCCACAACAGTTTG
 TGCAGAAAGTGGTGGAGGAGTGGAGAAGATGAAAATCGGCAATCCCCTGGAGAGGGACCAATCATGG
 CCCGCAGAACCATGAGGCCACCTGAGGAAGCTAGTGGAGTATTGCCAACGTGGTGTGAAGGAAGGGGCC
 AACTGGTCTGTGGTGGGAACCAAGTCCCAAGGCCAGGATTTCTTCTTTCAGCCAACCGTCTTACAGACG
 TAGAGGACCACATGTACATCGCTAAGGAGGAGTCTTTGGGCCCATCATGATCATCTCTCGTGTGCTGA
 TGGGGATGGATGCTGTGCTGTCCCGGCCAATGCCACAGAATTTGGCCTGGCCTCTGGGGTCTTACC
 CGCGATATCAACAAGGCCCTGTATGTCAGTGACAACTGCAGGCAGGCACTGTGTTTATCAACACGTATA
 ACAAGACTGATGTGCCGCACCTTTTGGAGGATTAAGCAATCTGGATTTGGCAAAGACCTGGGAGAGGC
 AGCCCTGAATGAGTACCTGCGGATCAAGACTGTGACTTTTGAAGT**ACTGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_022547

Insert Size:	2709 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_022547.1 , NP_071992.1
RefSeq Size:	3109 bp
RefSeq ORF:	2709 bp
Locus ID:	64392
UniProt ID:	P28037
Cytogenetics:	4q34
Gene Summary:	catalyzes the NADP dependent oxidation of 10-HCO-H4PteGlu to H4PteGlu and Co2 [RGD, Feb 2006]