

Product datasheet for **RC220893A1V**

Human ALDH4A1 (NM_003748) AAV Particle

Product data:

Product Type:	AAV Particles
Product Name:	Human ALDH4A1 (NM_003748) AAV Particle
Tag:	Myc-DDK
Symbol:	ALDH4A1
Synonyms:	ALDH4; P5CD; P5CDh
Mammalian Cell Selection:	None
Vector:	pAAV-AC-Myc-DDK (PS100089)



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ORF Nucleotide Sequence:

>RC220893 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCTGCCGGCGCCCGCTCCGCCGCGCCCTGCTGTCCCGCCCCTGGACCGGGGCCCGCCTGCGGT
 GGAAGCACACCTCCTCCCTGAAGGTGGCCAACGAGCCCGTCTTAGCCTTCACGCAGGGCAGCCCTGAGCG
 AGATGCCTGCAAAAGGCCTTGAAGGACCTGAAGGGCCGATGGAAGCCATCCCATGCGTGGTGGGGAT
 GAGGAGGTGTGGACGTCGGACGTGACGTACCAAGTGTGCGCTTTAAACCATGGACATAAGGTGGCCAAGT
 TCTGTTATGCAGACAAGAGCCTGCTCAACAAAGCCATTGAGGCTGCCCTGGTGGCCGAAAGAGTGGGA
 CCTGAAGCCTATTGCAGACCGGGCCAGATCTTCTGAAGGGCGCAGACATGCTGAGTGGGCCGCGCAGG
 GCTGAGATCCTCGCAAGACCATGGTGGACAGGGTAAGACCGTATCCAAGCGGAGATTGACGTCGAC
 CGGAACTCATCGACTTCTCCGTTCAATGCCAAGTATGCGGTGGAGCTGGAGGGGCAGCAGCCCATCAG
 CGTGCCCCGAGCACCAACAGCACGGTGTACCGGGTCTGGAGGGCTTCGTGGCGCCATCTCGCCCTTT
 AACTTCACTGCAATCGGCGGCAACCTGGCGGGGCACCGCCCTGATGGCAACGTGGTCTATGGAAGC
 CCAAGTGACACTGCCATGCTGGCCAGCTATGCTGTCTACCGCATCCTTCGGGAGGCTGGCCTGCCCCCAA
 CATCATCCAGTTTGTGCCAGCTGATGGGCCCTATTTGGGGACTGTACCAGCTCAGAGCACCTCTGT
 GGCATCAACTTACAGGCAGTGTGCCACCTTCAAACCTGTGGAAGCAGGTGGCCAGAACCTGGACC
 GGTTCCACACCTTCCCACGCCTGGTGGAGAGTGCGGCGGAAAGAACTTCCACTTCGTGCACCGCTCGGC
 CGACGTGGAGAGCGTGGTGGAGCGGACCTCCGCTCAGCCTTCGAGTACGGTGGCCAGAAGTGTCCGCG
 TGCTCGCGTCTCTACGTGCCCACTCGCTGTGGCCGAGATCAAAGGGCGGCTGCTGGAGGACACAGTC
 GGATCAAAGTGGGCGACCCTGCAGAGGATTTTGGGACCTTCTTCTGTCAGTGATTGATGCCAAGTCTT
 TGCCCGTATCAAGAAGTGGCTGGAGCACGCACGCTCCTCACCCAGCCTACCATCCTGGCCGGGGCAAG
 TGTGATGACTCCGTGGGCTACTTTGTGGAGCCCTGCATCGTGGAGAGCAAGGACCCTCAGGAGCCATCA
 TGAAGGAGGAGATCTTCGGCCCTGACTGTCTGTGTACGTCTACCCGGATGACAAGTACAAGGAGACGCT
 GCAGCTGGTTGACAGCACACCAGCTATGGCCTCACGGGGCAGTGTTCTCCAGGATAAGGACGTCGTG
 CAGGAGGCCACAAAGGTGCTGAGGAATGCTGCCGCAACTTCTACATCAACGACAAGTCCACTGGCTCGA
 TAGTGGGCCAGCAGCCCTTTGGGGGGCCGAGCCTCTGGAACCAATGACAAGCCAGGGGGCCACACTA
 CATCCTGCGCTGGACGTCGCCGAGGTATCAAGGAGACATAAGCCCTGGGGACTGGAGCTACGCG
 TACATGCAG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RC220893 protein sequence
 Red=Cloning site Green=Tags(s)

MLLPAPALRRALLSRPWTGAGLRWKHTSSLKVANEPVLAFTQGSPPERDALQKALKDLKGRMEAIPCVVGD
 EEVWTSVQYQVSPFNHGHKVKAFYADKSLNKAIEAALAARKEWDLKPIADRAQIFLKAADMLSGPRR
 AEILAKTMVGQKTVIQAEIDAAELIDFFRFNAKYAVELEGQQPISVPPSTNSTVYRGLGEGFVAASIPF
 NFTAIGGNLAGAPALMGNVVLWKPSDTAMLASYAVYRILREAGLPPNIIQFVFPADGPLFGDVTSSSEHLC
 GINFTGSVPTFKHLWKQVAQNDRFHTFPRLAGECGKFNHFVHRSADVESVVSGLRSAFEYGGQKCSA
 CSRLYVPHSLWPQIKGRLLLEHSRIKVGDPADFDTFFSAVIDAKSFARIKKWLEHARSSPSLILAGGK
 CDDSVGYFVEPCIVESKDPQEPIMKEEIFGPVLSVYVYPDDKYKETLQLVDSTTSYGLTGAVFSQDKDVV
 QEATKVLRNAAGNFYINDKSTGSIVGQQPFGGARASGTNDKPGGPHYILRWTSPQVIKETHKPLGDWSYA
 YMQ

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Species:

Human

Serotype:

AAV-2

ACCN:	NM_003748
ORF Size:	1689 bp
Buffer:	PBS with 0.001% Pluronic F68
Stability:	AAV is stable for 1 year when stored at -80°C (long-term storage) or 2-3 weeks when stored at -20°C (short-term storage). Thaw the vial of AAV on ice prior to use and keep it on ice during the experiment. Thawed AAV can be stored at 4°C for 1-2 weeks. Whenever possible, particles should be aliquoted into single use portions to avoid repeated freeze/thaw cycles. Please aliquot at least 10ul per tube and use low protein binding tubes to avoid loss of virus.
RefSeq:	<u>NM_003748.2</u>
RefSeq Size:	3399 bp
RefSeq ORF:	1692 bp
Locus ID:	8659
UniProt ID:	<u>P30038</u>
Cytogenetics:	1p36.13
MW:	61.7 kDa