

## Product datasheet for **RC217303A1V**

### Human ALDH5A1 (NM\_170740) AAV Particle

#### Product data:

Product Type:	AAV Particles
Product Name:	Human ALDH5A1 (NM_170740) AAV Particle
Tag:	Myc-DDK
Symbol:	ALDH5A1
Synonyms:	SSADH; SSDH
Mammalian Cell Selection:	None
Vector:	pAAV-AC-Myc-DDK (PS100089)



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**ORF Nucleotide Sequence:**

>RC217303 representing NM\_170740  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGACCTGCATTTGGCTGCGGAGCTGTGGGGCCCGCGCCTCGGGTCGACGTTTCCAGGCTGCCGCC  
 TCCGCCCCCGCGCCGGCGGCTGGTCCCTGCCTCCGGGCTGCGCCCGGCCCGGCCAGCTCCGCTGCTA  
 CGCTGGGCGCCTGGCGGGCCTCTCTGCGCGCTGCTGCGCACCGACAGCTTCGTGGGCGGCCGCTGGCTC  
 CCGGCCCGCCACCTTCCCGTGCAAGACCGGCCAGCGCGCCGCTCTGGCATGGTAGCCGACTGCG  
 GGGTGCAGAGGCCCGCGCCCGTGCAGCTGCCTACGAGGCTTTCTGCGCTGGAGGGAGGTCTCCGC  
 CAAGGAGAGGAGTTCATTACTTCGGAAGTGTACAATTAATGATACAAAATAAGGATGACCTTGCCAGA  
 ATAATCACAGCTGAAAGTGAAAGCCACTGAAGGAGGCACATGGAGAAATTCCTATTCCGCTTTTTCC  
 TAGAGTGGTTCTCTGAGGAAGCCCGCCGTGTTACGGAGACATTATCCACACCCCGCAAAGGACAGGCG  
 GGCCCTGGTCTCAAGCAGCCATAGGCGTGGTGCAGTCATCACCCCGTGAATTTCCCAAGTCCATG  
 ATCACCCGGAAGTGGGGCGCCCTGGCAGCCGGCTGTACTGTGCTGGTGAAGCCTGCCGAAGACAGC  
 CCTTCTCCGCCCTGGCCCTGGCTGAGGTAATCAGGGATTTCTTCTGATTTGGATCCATTGTTGCTTG  
 AAGCCAGGCTGGGATTCCTTCAGGTGTATAAATGTTATTCCCTGTTCTCGAAAGATGCCAAGGAAGTA  
 GGGGAGGCAATTTGACTGATCCTCTGGTGTCCAAAATTTCTTTACTGGTTCAACAACCTACAGGAAAGA  
 TCCTGTTGCACCACGCAGCAAACCTGTGAAAAGGGTCTCTATGGAGCTGGGCGGCCCTTGCTCCATTTAT  
 AGTATTTGACAGTGCCAAACGTGGACCAGGCTGTAGCAGGGCCATGGCATCTAAATTTAGGAACACTGGA  
 CAGACTGTGTTTGTCAAACCAATTCCTGGTCAAAGGGCATCCATGATGCCTTTGTAAGCACTTCG  
 CCGAGGCCATGAAGAAGAACCTGCGCGTAGGTAATGGATTTGAGGAAGGAACACTACTCAGGCCCCATAAT  
 TAATGAAAAGCGGTAGAAAAGGTGGAGAAACAGGTGAATGATGCCGTTTCTAAAGGTGCCACCGTTGTG  
 ACAGGTGGAACCGACACCAACTTGAAAAAATTTCTTTGAGCCTACCCTGCTGTGCAATGTCACCCAGG  
 ACATGCTGTGCACTCATGAAGAGACTTTGCGGCCCTGCGCACCGATTATCAAGTTCGATACAGAGGAGGA  
 GGCTATAGCAATCGCTAACGCAGCTGATGTTGGTTAGCAGGTTATTTTTACTCTCAAGACCCAGCCAG  
 ATCTGGAGAGTGGCAGAGCAGCTGGAAGTGGGCATGGTTGGCGTCAACGAAGGATTAATTTCTCTGTGG  
 AGTGCCCTTTTGGTGGAGTGAAGCAGTCCGGCCTTGGCGAGAGGGGTCCAAGTATGGCATTGATGAGTA  
 TCTGAACTCAAGTATGTGTGTACGGGGCTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC217303 representing NM\_170740  
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MATCIWLRSCGARRLGSTFPGCRLRPRAGGLVPASGPAPGPAQLRCYAGRLAGLSAALLRTDSFVGGRWL  
 PAAATFPVQDPASGAALGMVADCGVREARAAVRAAYEAFCRWREVSAKERSLLRKWYNLMIQNKDDLAR  
 IITAESGKPLKEAHGEILYSAFFLEWFSEEARRVYGDIIHTPAKDRRALVLKQPIGVAAVITPWNFPSAM  
 ITRKVGAAALAGCTVVVKPAEDTPFSALALAEVNVQGLLDLDPILLASQAGIPSGVYVNVIPCSRKNAKEV  
 GEAICTDPLVSKISFTGSTTTGKILLHHAANSVKRVSMELGGLAPFIVFDSANVDQAVAGAMASKFRNTG  
 QTCVCSNQFLVQRGIHDAFVKAF AEAMKKNLRVNGFEETGQPLINEKAVEKVEKQVNDVAVSKGATVV  
 TGGKRHLQGNFFIPTLLCNVTQDMLCTHEETFGLAPVIKFDTEEEAIAIANAADVGLAGYFYSDPAQ  
 IWRVAEQLEVMVGVNEGLISSVECPFGGVKQSGLGREGSKYIDEYLELKYVCYGG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Species:**

Human

**Serotype:**

AAV-2

**ACCN:**

NM\_170740

<b>ORF Size:</b>	1644 bp
<b>Buffer:</b>	PBS with 0.001% Pluronic F68
<b>Stability:</b>	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.
<b>RefSeq:</b>	<u><a href="#">NM_170740.1</a></u> , <u><a href="#">NP_733936.1</a></u>
<b>RefSeq Size:</b>	5170 bp
<b>RefSeq ORF:</b>	1647 bp
<b>Locus ID:</b>	7915
<b>UniProt ID:</b>	<u><a href="#">P51649</a></u>
<b>Cytogenetics:</b>	6p22.3
<b>MW:</b>	53.7 kDa