

## Product datasheet for **RC229372A1V**

### Human **ASAH2 (NM\_019893)** AAV Particle

#### Product data:

|                           |                                        |
|---------------------------|----------------------------------------|
| Product Type:             | AAV Particles                          |
| Product Name:             | Human ASAH2 (NM_019893) AAV Particle   |
| Tag:                      | Myc-DDK                                |
| Symbol:                   | ASAH2                                  |
| Synonyms:                 | BCDase; HNAC1; LCDase; N-CDase; NCDase |
| Mammalian Cell Selection: | None                                   |
| Vector:                   | pAAV-AC-Myc-DDK (PS100089)             |



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**ORF Nucleotide  
Sequence:**

>RC229372 representing NM\_019893  
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCAAACGCACCTTCTCTAACTTGGAGACATTCCTGATTTTCCTCCTTG: TAATGATGAGTGCCATC  
 ACAGTGGCCCTTCTCAGCCTCTTGTATCACCAGTGGGACCATTGAAAACACAAAGATTTAGGAGGCC  
 ATTTTTTTTCAACCACCAAGCCCTCCAGCCACCCAGGGCTCCACAGCCGCCAACGCTCCACAGCCAC  
 CCAGCATTCCACAGCCACCCAGAGCTCCACAGCCACTCAAACCTCTCCAGTGCCTTTAACCCAGAGTCT  
 CCTCTATTTCAGAACTTCAGTGGCTACCATATTGGTGTGGACGAGCTGACTGCACAGGACAAGTAGCAG  
 ATATCAATTTGATGGGCTATGGCAAATCCGGCCAGAATGCACAGGGCATCCTACCAGGCTATACAGTCG  
 TGCCTTCATCATGGCAGAACCTGATGGGTCCAATCGAACAGTGTGTGTCAGCATCGACATAGGCATGGTA  
 TCCCAAAGGCTCAGGCTGGAGGCTCTGAACAGACTGCAGAGTAAATATGGCTCCCTGTACAGAAGAGATA  
 ATGTCATCCTGAGTGGCACTCACACTCATTGAGTCTGCAGGATATTTCCAGTATACCGTGTGTGTAAT  
 TGCCAGTGAAGGATTTAGCAATCAAACCTTTTCAGCACATGGTCACTGGTATCTTGAAGAGCATTGACATA  
 GCACACACAAATATGAAACCAGGCAAAATCTTCATCAATAAAGGAAATGTGGATGGTGTGCAGATCAACA  
 GAAGTCGGTATTCTTACCTTCAAATCCGAGTCAGAGAGAGCAAGGTATTCTTCAAATACAGACAAGGA  
 AATGATAGTTTTGAAATGGTAGATTTGAATGGAGATGACTTGGGCCCTTATCAGTGGTTTGCCATCCAC  
 CCGGTCAGCATGAACAACAGTAACCATCTTGTAAACAGTGACAATGTGGGCTATGCATCTTACCTGCTTG  
 AGCAAGAGAAGAAACAAAGGATATCTACCTGGACAGGGGCCATTTGTAGCAGCCTTTGCTTCATCAAACCT  
 AGGAGATGTGTCCCCAACATTTCTGGACCAGTTCATCAACACAGGAGAGTCTGTGATAACGCCAAT  
 AGCATTGTGCCATTGGTGGGCTAGCATGTGCATTGCTAAGGGACCTGGACAGGATATGTTTGACAGCA  
 CACAAATTATAGGACGGGCCATGTATCAGAGAGCAAAGGAACTCTATGCCTCTGCCTCCCAGGAGGTAAC  
 AGGACCACTGGCTTCAGCACACCACTGGGTGGATATGACAGATGTGACTGTCTGGCTCAATTCACACAT  
 GCATCAAAAACATGTAACCAGCATTGGGCTACAGTTTTGCAGCTGGCACTATTGATGGAGTTGGAGGCC  
 TCAATTTTACACAGGGGAAAACAGAAGGGGATCCATTTTGGGACACCATTCCGGGACCAGATCCTGGGAAA  
 GCCATCTGAAGAAATTAAGAATGTCTAAACCAAGCCATCCTTCTTACACCGGAGAACTATCAAAA  
 CCTCACCCCTGGCATCCAGACATTGTTGATGTTGAGATTATTACCCTTGGGTCTTGGCCATAACTGCCA  
 TCCCCGGGAGTTTACGACCATGTCTGGACGAAGACTTCGAGAGGCAGTTCAAGCAGAATTTGCATCTCA  
 TGGGATGCAGAACATGACTGTTGTTATTTGAGTCTATGCAACGTCTATACACATTACATTACCATTAT  
 GAAGAATACCAGGCTCAGCGATATGAGGCAGCATCGACAATTTATGGACCGCACACATTATCTGCTTACA  
 TTCAGCTCTTCAGAAACCTTGCTAAGGCTATTGCTACGGACACGGTAGCCAACCTGAGCAGAGGTCCAGA  
 ACCTCCCTTTTTCAAACAATTAAGTTCATTAATTCCTAGTATTGTGGATAGAGCACCAAAAGGCAGA  
 ACTTTCGGGGATGTCTGCAGCCAGCAAAACCTGAATACAGAGTGGGGGAAGTTGCTGAAGTTATATTTG  
 TAGGTGCTAACCCGAAGAATTCAGTACAAAACAGACCATCAGACCTTCCTCACTGTGGAGAAATATGA  
 GGCTACTTCAACATCGTGGCAGATAGTGTGAATGATGCCTCCTGGGAGACTCGTTTTTATTGGCACAAG  
 GGACTCCTGGGTCTGAGTAATGCAACAGTGAATGGCATATTCAGACACTGCCAGCCTGGAATCTACA  
 GAATAAGATATTTGGACACAATCGGAAGCAGGACATTCTGAAGCCTGCTGTCACTTTTCATTTGAAGG  
 CACTTCCCCGGCTTTTGAAGTTGTAACATT

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

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|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Protein Sequence:</b> | <p>&gt;RC229372 representing NM_019893</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MAKRTFSNLETFLIFLLVMMSAITVALLSLLFITSGTIENHKDLGGHFFSTTQSPPATQGSTAAQRSTAT<br/> QHSTATQSSTATQTSPVPLTPESPLFQNFSGYHIGVGRADCTGQVADINLMGYGKSGQNAQGILTRLYSR<br/> AFIMAEPDGSNRTVFVSIDIGMVSQRLRLEVLNRLQSKYGSLYRRDNVILSGTHTHSGPAGYFQYTVFVI<br/> ASEGFSNQTFQHMVTGILKSIDIAHTNMKPGKIFINKGNVDGVQINRSPYSYLQNPQSERARYSSNTDKE<br/> MIVLKMVDLNGDDLGLISWFAIHPVSMNNSNHLVNSDNVGYASYLLEQEKNGYLPQGPFVAAFASSNL<br/> GDVSPNILGPRCINTGESCDNANSTCPIGGPSMCIAGPGQDMFDSTQIIGRAMYQRAKELYASASQEV<br/> GPLASAHQWVDMTDVTWLNSTHASKTCKPALGYSFAAGTIDGVGGLNFTQGKTEGDPFWDITRDQILGK<br/> PSEEIKECHKPKPILLHTGELSKPHPWHPDIVDQIITLGLSLAITAIPGEFTTMSGRRLEAVQAEFASH<br/> GMQNMVTVISGLCNVYTHYITTYEEYQAQRYEAASTIYGPHTL SAYIQLFRNLAKAIATDTVANLSRGPE<br/> PPFFKQLIVPLIPSIVDRAPKGRTFGDVLQPAKPEYRVGEVAEIVFGANPKNSVQNQTHQTFLTVEKYE<br/> ATSTSWQIVCNDASWETRFYWHKGLLGLSNATVEWHIPDTAQPGIYRIRYFGHNRKQDILKPAVILSFEG<br/> TSPAFEVVTI</p> |
| <b>Species:</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Serotype:</b>         | AAV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ACCN:</b>             | NM_019893                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ORF Size:</b>         | 2341 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Buffer:</b>           | PBS with 0.001% Pluronic F9637                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <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>NM_019893.2, NP_063946.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>RefSeq ORF:</b>       | 2343 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Locus ID:</b>         | 56624                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>UniProt ID:</b>       | <u>Q9NR71</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Cytogenetics:</b>     | 10q11.23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>MW:</b>               | 85.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |