

## Product datasheet for **RC203756A1V**

### Human Alanine Transaminase (GPT) (NM\_005309) AAV Particle

#### Product data:

|                           |                                                           |
|---------------------------|-----------------------------------------------------------|
| Product Type:             | AAV Particles                                             |
| Product Name:             | Human Alanine Transaminase (GPT) (NM_005309) AAV Particle |
| Tag:                      | Myc-DDK                                                   |
| Symbol:                   | Alanine Transaminase                                      |
| Synonyms:                 | AAT1; ALT1; GPT1                                          |
| Mammalian Cell Selection: | None                                                      |
| Vector:                   | pAAV-AC-Myc-DDK (PS100089)                                |



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## ORF Nucleotide Sequence:

>RC203756 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTCGAGCACAGGTGACCGGAGCCAGGCGGTGAGGCATGGACTGAGGGCGAAGGTGCTGACGCTGG  
 ACGGCATGAACCGCGTGTGCGGAGAGTGGAGTACGCAGTGGTGGCCCCATAGTGCAGCGAGCCTTGGA  
 GCTGGAGCAGGAGCTGCGCCAGGCTGTGAAGAAGCCTTTCACCGAGGTATCCGTGCCAACATCGGGGAC  
 GCACAGGCTATGGGGCAGAGGCCATCACCTTCTGCGCCAGGTCTTGGCCCTCTGTGTTAACCTGATC  
 TTCTGAGCAGCCCCAACTTCCCTGACGATGCCAAGAAAAGGGCGGAGCGCATCTTGACGGCGTGTGGGG  
 CCACAGTCTGGGGGCTACAGCGTCAGTCCGGCATCCAGTGTATCCGGGAGGACGTGGCGCGGTACATT  
 GAGAGGCGTGACGGAGGCATCCCTGCGGACCCCAACAACGTCTTCTGTCCACAGGGGCCAGCGATGCCA  
 TCGTGACGGTGTGAAGCTGCTGGTGGCCGCGAGGGCCACACACGCACGGGTGTGCTCATCCCCATCCC  
 CAGTACCCACTCTACTCGGCCACGCTGGCAGAGCTGGGCGCAGTGCAGGTGGATTACTACCTGGACGAG  
 GAGCGTGCCTGGGCGCTGGACGTGGCCGAGCTTACCGTGCAGTGGGCCAGGCGCGTGACCACTGCCGCC  
 CTCGTGCGCTCTGTGTCATCAACCTGGCAACCCACCGGGCAGGTGCAGACCCGCGAGTGCATCGAGGC  
 CGTGATCCGCTTCGCCTTCGAAGAGCGGCTCTTCTGCTGGCGGACGAGGTGTACCAGGACAACGTGTAC  
 GCCGCGGGTTCGAGTTCCTACTTCAAGAAGGTGCTCATGGAGATGGGGCCGCCCTACGCCGGGCAGC  
 AGGAGCTTGCCTCCTTCCACTCCACCTCCAAGGCTACATGGGCGAGTGGGGTTCGCGGCGGCTATGT  
 GGAGGTGGTGAACATGGACGCTGAGTGCAGCAGCAGATGCTGAAGCTGATGAGTGTGCGGCTGTGCCCG  
 CCGGTGCCAGGACAGGCCCTGCTGGACCTGGTGGTCAAGCGCCCGCGCCACCGACCCCTCCTTTCGCG  
 AGTTCAGGCTGAGAAGCAGGAGTGTGGCAGAGCTGGCGGCCAAGGCCAAGCTCACCGAGCAGGTCTT  
 CAATGAGGCTCCTGGCATCAGCTGCAACCCAGTGCAGGGCGCCATGTACTCCTCCCGCGCGTGCAGCTG  
 CCCCCGCGGGCGTGGAGCGGCTCAGGAGCTGGGCTGGCCCCGATATGTTCTTCTGCTGCGCTCC  
 TGGAGGAGACCGCATCTGCGTGGTGGCAGGAGCGGCTTGGGAGCGGGAAGGCACCTACCACTTCCG  
 GATGACCACTTCTGCCCCCTTGGAGAACTGCGGCTGCTGCTGGAGAAGCTGAGCAGGTTCATGCCAAG  
 TTCACCTCGAGTACTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

>RC203756 protein sequence  
 Red=Cloning site Green=Tags(s)

MASSTGDRSQAVRHGLRAKVLTLDMNPRVRRVEYAVRGPIVQRALELEQELRQGVKKPFTEVIRANIGD  
 AQAMGQRPITFLRQVLALCVNPDLSSPNFPDDAKKRAERILQACGGHSLGAYSVSSGIQLIREDVARYI  
 ERRDGGIPADPNVFLSTGASDAIVTVLKL VAGEGHTRTGVLIPQYPLYSATLAELGAVQVDYYLDE  
 ERAWALDVAELHRLGQARDHCRPRALCVINPGNPTGQVQTRECI EAVIRFAFEERLFLLADEVYQDNVY  
 AAGSQFHSFKVLMEMGPPYAGQQLASFHSTSKGYMGECCGFRGGYVEVNMDAAVQQQMLKMSVRLCP  
 PVPQALLDLVVSPPAPDPSFAQFQAEKQAVLAELAAKAKLTEQVFNEAPGISCNPVQGMYSFPRVQL  
 PPRaveraQELGLAPDMFFCLRLLEETGICVVPGSFGQREGTYHFRMTILPPEKLRLLEKLSRFHAK  
 FTLEYS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Species:

Human

Serotype:

AAV-2

ACCN:

NM\_005309

ORF Size:

1488 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:       | <a href="#">NM_005309.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| RefSeq Size:  | 1896 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| RefSeq ORF:   | 1491 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Locus ID:     | 2875                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| UniProt ID:   | <a href="#">P24298</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Cytogenetics: | 8q24.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| MW:           | 54.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |