

## Product datasheet for **RC221042A1V**

### Human NAT1 (NM\_000662) AAV Particle

#### Product data:

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Product Type:             | AAV Particles                                                     |
| Product Name:             | Human NAT1 (NM_000662) AAV Particle                               |
| Tag:                      | Myc-DDK                                                           |
| Symbol:                   | NAT1                                                              |
| Synonyms:                 | AAC1; MNAT; NAT-1; NATI                                           |
| Mammalian Cell Selection: | None                                                              |
| Vector:                   | pAAV-AC-Myc-DDK (PS100089)                                        |
| ORF Nucleotide Sequence:  | >RC221042 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGACATTGAAGCATATCTTGAAAGAATTGGCTATAAGAAGTCTAGGAACAAATTGGACTTGAAACAT  
TAACTGACATTCTTCAACACCAGATCCGAGCTGTTCCCTTTGAGAACCTTAACATCCATTGTGGGGATGC  
CATGGACTTAGGCTTAGAGGCCATTTTGTCAAGTTGTGAGAAGAAATCGGGGTGGATGGTGTCTCCAG  
GTCAATCATCTTCTGTACTGGGCTCTGACCACTATTGGTTTTGAGACCACGATGTTGGGAGGGTATGTTT  
ACAGCACTCCAGCCAAAAATACAGCACTGGCATGATTACCTTCTCTGCAGGTGACCATTTGATGGCAG  
GAACTACATTGTGATGCTGGGTTTGGACGCTCATACCAGATGTGGCAGCCTCTGGAGTTAATTTCTGGG  
AAGGATCAGCCTCAGGTGCCTTGTGTCTTCCGTTTGACGGAAGAGAATGGATTCTGGTATCTAGACCAAA  
TCAGAAGGGAACAGTACATTCCAAATGAAGAATTTCTTCATTCTGATCTCCTAGAAGACAGCAAAATACCG  
AAAAATCTACTCCTTTACTCTTAAGCCTCGAACAATTGAAGATTTTGAGTCTATGAATACATACCTGCAG  
ACATCTCCATCATCTGTGTTTACTAGTAAATCATTTTGTTCCTTGACAGCCCCAGATGGGGTTCCTGTT  
TGGTGGGCTTCACCTCACCCATAGGAGATTCAATTATAAGGACAATACAGATCTAATAGAGTTCAAGAC  
TCTGAGTGAGGAAGAAATAGAAAAAGTCTGAAAAATATATTTAATTTCTTGACAGAGAAAGCTTGTC  
CCCAACATGGTGATAGATTTTTTACTATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protein Sequence: | <p>&gt;RC221042 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MDIEAYLERIGYKSRNKLDLETLDILQHQIRAVPFENLNHCGDAMDGLGLEAIFDQVVRNRGGWCLQ<br/> VNHLLYWALTTIGFETTMLGGYVYSTPAKKYSTGMIHLLLQVTIDGRNYIVDAGFGRSYQMWQPLELISG<br/> KDQPQVPCVFRLTEENGFWYLDQIRREQYIPNEEFLHSDLLEDISKYRKIYSFTLKPTIEDFESMNTYLQ<br/> TSPSSVFTSKSFCSLQTPDGVHCLVGFTLTHRRFNYKDNTDLIEFKTLSEEEIEKVLKNIFNISLQRKLV<br/> PKHGDRFFTI</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>                            |
| Species:          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Serotype:         | AAV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| ACCN:             | NM_000662                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ORF Size:         | 870 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_000662.4</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| RefSeq Size:      | 1821 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| RefSeq ORF:       | 873 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Locus ID:         | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| UniProt ID:       | <u>P18440</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Cytogenetics:     | 8p22                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| MW:               | 33.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |