

## Product datasheet for **RC208782A1V**

### Human **SLC34A1** (NM\_003052) AAV Particle

#### Product data:

|                           |                                                              |
|---------------------------|--------------------------------------------------------------|
| Product Type:             | AAV Particles                                                |
| Product Name:             | Human SLC34A1 (NM_003052) AAV Particle                       |
| Tag:                      | Myc-DDK                                                      |
| Symbol:                   | SLC34A1                                                      |
| Synonyms:                 | FRTS2; HCINF2; NAPI-3; NPHLOP1; NPT2; NPTIIa; SLC11; SLC17A2 |
| Mammalian Cell Selection: | None                                                         |
| Vector:                   | pAAV-AC-Myc-DDK (PS100089)                                   |



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ORF Nucleotide  
Sequence:

>RC208782 representing NM\_003052  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGTTGCTCTACGGAGAGAGGCTGGGGTCCCCTGCTGTCTCCCACTCCAGTCCGTGGGGGCGATGTGA  
TGCGAGGGACGGCCTTTGCCTACGTGCCAGCCCTCAGGTCTACACAGGATCCCGGGGACCTCTGCCTA  
TGCTTCCCCAGCCTGGGCCCTGTGGCCTTGCTGAGCACACCTGCCCTGTGGGAGGTCTGGAGCGC  
CATGAACCACTGCCTGCCAAGCTGGCCCTGGAGGAGGAGCAGAAGCCAGAGTCCAGGCTGGTCCCAAGC  
TGCGCCAGGCTGGCGCCATGCTGCTCAAGGTGCCACTGATGCTCACCTTCTCTACCTCTTCGTCTGCTC  
CCTGGACATGCTCAGCTCGCCCTCCAGCTGGCTGGAGGAAGGTGGTGGTGACATCTCAAGGATAAC  
GCCATCTGTCCAACCCGGTGGCGGGCTGGTGGTGGGATCCTGGTGACCGTGTGGTGCAGAGCTCCA  
GCACCTCCACATCCATCATCGTCAGCATGGTCTCTCTGGCTTGCTGGAGGTGAGCTCTGCCATCCCAT  
CATCATGGGCTCCAACATCGGCACCTCTGTACCAACACCATCGTGGCCCTGATGCAGGCGGGGACAGG  
ACTGACTTCCGGCGGGCCTTCGGCGGGGCCACGGTGCATGACTGCTTTAACTGGCTGTCACTGCTGGTCC  
TGCTGCCCTGGAGGCTGCCACTGGCTACCTGCACCACATCACTCGACTTGTGGTGGCCTCCTTCAACAT  
CCATGGTGGCCGTGATGCTCCTGACCTGCTCAAGATCATCACAGAGCCCTTACGAAGCTCATATCCAG  
CTGGACGAGTCTGTGATAACACGATTGCCACTGGTGTGAGTCCCTGAGGAACCAAGTCTCATCCAGA  
TCTGGTGCCACCCAGACTCCTTACAGGCTCCCACCTCCATGTCCAGAGCAGAGGCCAACTCCAGCCAGAC  
CCTTGGAAATGCCACCATGGAGAAATGCAACACATCTTTGTGGACACTGGCCTACCGGACCTGGCTGTG  
GGGCTCATCTGCTGGCAGGATCCCTGGTGTGCTGTGCACCTGCCTCATCTCTAGTCAAGATGCTCA  
ACTCCCTGCTCAAGGGCCAAGTGGCCAAGGTATCCAGAAGGTATCAATACGGACTTCCCTGCCCCCTT  
CACCTGGGTACAGGCTACTTTGCCATGGTGGTGGGCGCCAGCATGACCTTCGTGGTCCAGAGCAGTTCT  
GTGTTACCTCGGCCATCACCCACTCATCGGTCTTGGTGTGATCAGCATTGAGAGGGCTACCCGCTCA  
CACTGGGTTCCAACATCGGCACCAACCACCGCCATCCTGGCTGCCCTGGCCAGCCCCAGGGAGAAGCT  
GTCCAGCGCTTCCAGATTGCCCTCTGTCACTTCTTCAACATCTCGGGTATCCTTCTGTGGTACCCG  
GTGCCCTGCACACGCTGCCATCCGCATGGCCAAGGCGCTGGGAAACGCACGGCCAAGTACCGCTGGT  
TTGCCGCTCTATCTCCTTGTCTGCTTCTGCTGCTGCCCTCACTGGTGTGGTGGTATCCATGGCAGG  
CTGGCAGGTATGGTAGGTGTGGGCACGCCCTTCGGGGCCCTGCTGGCCTTCGTGGTGTCTCATCAATGTC  
CTGCAGAGTCGGAGTCCCGGACCTGCCAAGTGGTTACAGACATGGGACTTCTGCCTCGCTGGATGC  
ACTCCCTGAAGCCCTGGACCACCTCATCACCCGCGCCACCCTATGCTGTGCCAGGCCTGAGCCCCGCTC  
ACCCCCGCTGCCCCCAGGGTCTTCTGGAGGAGCTACCCCTGCCACACCTCCCCCGCTTGTCACTG  
CCTGCTCACCACAATGCCACCCGCTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protein Sequence: | <p>&gt;RC208782 representing NM_003052</p> <p>Red=Cloning site Green=Tags(s)</p> <p>           MLSYGERLGSPAVSPLPVRGGHVMRGTAFAAYVPSQVLHRIPGTSAYAFPSLGPVALAEHTCPCGEVLER<br/>           HEPLPAKLALEEEQKPESRLVPKLRQAGAMLLKVPLMLTFLYLFVCSLDMLSSAFQLAGGKVAGDIFKDN<br/>           AILSNPVAGLVVGILVTVLVQSSSTSTSIIVSMVSSGLLEVSSAIPIMGNSNIGTSVTNTIVALMQAGDR<br/>           TDFRRAFAGATVHDCFNWLSVLVLLPLEAATGYLHHITRLVVASFNIHGGRDAPDLLKIITEPFTKLI IQ<br/>           LDESVITSIATGDESLRNHSLIQIWCHPDSLQAPTSMSRAEANSQTLGNATMEKCNHIFVDTGLPDLAV<br/>           GLILLAGSLVLLCTCLILLVKMLNSLLKGQVAKVIQKVINTDFPAPFTWVTGYFAMVVGASMTFVVQSSS<br/>           VFTSAITPLIGLGVISIERAYPLTLGSNIGTTTTAILAALASPREKLSSAFQIALCHFFFNISGILLWYP<br/>           VPCTRLPIRMAKALGKRTAKYRWFAYLYLLVCFLLPSLVFGISMAGWQVMVGVTGTFPGALLAFVVLINV<br/>           LQSRSPGHLPKWLQTWDFLPRWMHSLKPLDHLITRATLCCARPEPRSPPLPPRVFLEELPPATPSRLAL<br/>           PAHHNATRL         </p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| Species:          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Serotype:         | AAV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ACCN:             | NM_003052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ORF Size:         | 1917 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Buffer:           | PBS with 0.001% Pluronic F6324                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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_003052.2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| RefSeq Size:      | 2677 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| RefSeq ORF:       | 1920 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Locus ID:         | 6569                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| UniProt ID:       | <u>Q06495</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Cytogenetics:     | 5q35.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| MW:               | 68.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |