

## Product datasheet for **RC225929A1V**

### Human Neurofilament (NEFM) (NM\_001105541) AAV Particle

#### Product data:

Product Type:	AAV Particles
Product Name:	Human Neurofilament (NEFM) (NM_001105541) AAV Particle
Tag:	Myc-DDK
Symbol:	Neurofilament
Synonyms:	NEF3; NF-M; NFM
Mammalian Cell Selection:	None
Vector:	pAAV-AC-Myc-DDK (PS100089)



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**ORF Nucleotide Sequence:**

>RC225929 ORF sequence, **codon optimized**.  
**Due to the complexity of NM\_001105541, the ORF clone is codon optimized for mammalian Expression.**  
**The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.**

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGC**C

ATGCCAGACATCTTAGAGAGTACCAGGATCTCCTTAACGTCAAGATGGCGCTGGATATAGAAATTGCCG  
 CCTATCGCAAGCTTCTGGAGGGCGAGGAAACAAGATTTCCACCTTTGCCGGTCAATCACCGGCCCCCT  
 GTACACTCACAGACCACCCATTACCATCTCTTCAAAAATTCAGAAGCCAAAGGTCGAGGCTCCAAAATTG  
 AAGGTGCAACACAAGTTTGTGAAGAGATCATTGAGGAAACAAAAGTGAAGACGAGAAGAGCGAGATGG  
 AGGAGGCCCTCACGGCCATCACCGAAGAGCTCGCTGTCAGCATGAAGGAAGAGAAAAAGGAGCCCGCA  
 AGAGAAAGAGGAGGAACCAAGCTGAGGAAGAGGAGGTGGCTGCCAAGAAGAGTCCAGTCAAGGCCACT  
 GCCCTGAGGTGAAAGAGGAGGAGGGGAGAAAGAGGAAGAGGAAGGCCAGGAAGAGGAGGAGGAAGAAG  
 ATGAAGGAGCCAAGAGCGACCAGGCCGAAGAAGGAGGGAGCGAAAAAGAGGCAGCTCCGAAAAAGAGGA  
 GGGGAGCAGGAGGAAGCGAAACTGAGGCGGAGGCCGAAGGCCGAAGAGGCCGAAGCTAAAGAGGAGAAA  
 AAGGTGGAAGAGAAGAGCGAAGAGGTGCGCCACGAAGGAGGAGCTGGTAGCCGATGCTAAGGTTGAGAAAC  
 CTGAAAAAGCTAAATCTCCCGTCCCAAGTCCCGTGGAGGAGAAAGGAAAAATCTCCCGTACCCAAAAG  
 CCCGGTTGAAGAAAAAGCAAAAGTCCCGTCCCTAAGAGTCCCGTGGAGGAGAAAGGTAATCACCGATG  
 CCTAAGTCAACAGTGAAGAGAAAGGCAAGAGTCTGTGAGTAAGAGTCCCTGTTGAGGAAAAAGGCTAAGT  
 CCCCAGTCCCAAGTCCCGGTTGAGGAGGCCAAGTCAAAGGCCGAGGTCGAAAAAGGAGAACAAAAAGA  
 GGAGGAGGAGAAGGAAGTCAAAGAAGCACCTAAGGAAGAAAAAGTGGAGAAAAAGGAGGAGAAGCCTAAA  
 GATGTGCCCGAGAAGAAGAAGGCTGAAAGTCCAGTGAAGAGGAGGAGTACGCGGAGGTTGTCACGATCA  
 CAAAGAGCGTGAAGGTGCATCTGAAAAAGGAGACAAAGGAGGAAGGCCAAGCCACTTCAACAGGAGAAAGA  
 GAAGGAGAAGGCAGGCGGTGAGGCGGAAGTGAAGAAGAAGGTCAGATAAGGGCGCTAAAGGTTCTCGA  
 AAGGAGGATATCGCCGTTAACGGAGAGGTAGAAGTAAAGAGGAGTTCGAGCAGGAGACTAAGGAAAAAG  
 GCTCTGGGAGGAGGAAGAGAAAGGAGTGGTACGAACGACTGGATCTCAGCCCTGCCGACGAGAAGAA  
 GGGCGGAGATAAAAGTGAAGAGAAGGTGGTAGTCACTAAGACTGTAGAAAAAATTACCTCTGAAGGAGGG  
 GACGGCCACAAAATACATCACAAGTCTGTAAACCGTACTCAAAAAGTGGAGGAACATGAAGAGACTT  
 TTGAAGAGAACTGGTGTCTACCAAGAAAGTCGAGAAAGTGACCTCCCATGCTATAGTGAAGGAGGTGAC  
 TCAATCAGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC225929 representing NM\_001105541  
 Red=Cloning site Green=Tags(s)

MARHLREYQDLLNVKMLDIEIAAYRKLLEGEETRFSTFAGSITGPLYTHRPPITISSKIQPKVEAPKL  
 KVQHKFVEEIIIEETKVEDEKSEMEEALTAITEELAVSMKEEKKEAAEEKEEPEAEEEVAAKSPVKAT  
 APEVKEEEGEKEEEEGQEEEEDEGAKSDQAEEGGSEKESSEKEEQQEEGETEAEAEGEEAEAKEEK  
 KVEEKSEEVATKEELVADAKVEKPEKAKSPVPSVVEEKGKSPVPSVVEEKGKSPVPSVVEEKGKSPV  
 PKSPVVEEKGKSPVSKSPVEEKAKSPVPSVVEEAKSKAEVKGGEQKEEKEVKEAPKEEKVEKKEKPK  
 DVPEKKAESPVKEEAVAEVVTITKSVKHLEKETKEEGKPLQQEKEKEKAGGEGSEEGSDKGAKGSR  
 KEDIAVNGEVEGKEEVEQETKEKSGREEEKGVVTNGLDLSPADEKKGGDKSEKVVVTKTVEKITSEGG  
 DGATKYITKSVTVTQKVEEHEETFEEKLVSTKKVEKVTSHAIVKEVTQSD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

<b>Species:</b>	Human
<b>Serotype:</b>	AAV-2
<b>ACCN:</b>	NM_001105541
<b>ORF Size:</b>	1620 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_001105541.1</a></u> , <u><a href="#">NP_001099011.1</a></u>
<b>RefSeq Size:</b>	2514 bp
<b>RefSeq ORF:</b>	1623 bp
<b>Locus ID:</b>	4741
<b>Cytogenetics:</b>	8p21.2
<b>MW:</b>	59.5 kDa