

Product datasheet for **RC213099**

NAIF1 (NM_197956) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	NAIF1
Synonyms:	bA379C10.2; C9orf90
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213099 representing NM_197956 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGTCCCAGCCAAGAAAAGGAAGATGAACCTCTCAGAGCGGGAGGTGGAGATCATCGTGGAGGAGC
TGGAGCTGAAGAAGCACCTGCTGGTGAACCACTTCAACGCCGGGTACCCCTGGCCGCCAAGAGTGCGGC
CTGGCACGGCATCCTGAGAAGGGTCAACGCCGTGGCCACCTGCCGCAGAGAGCTGCCTGAGGTCAAGAAG
AAGTGGTCTGACCTCAAGACCGAGGTCCGTCGCAAGTTGCCAGGTCCGGGCCCGCTGGAGGGTGGT
AGGCGCCGGGGCCCACTGAGGAGGACGGAGCTGGGGGCCCTGGGACAGGCGGTGGCAGTGGCGCGGTGG
CCCAGCTGTAGCCCCAGTGTGCTGACCCCCATGCAACAACGTATCTGCAACCTGCTGGGCGAGGCCACC
ATCATCAGCCTGCCCAGCACACAGAGATCCACCCTGTGGCCCTCGGACCCTCGGCCACCGCAGCCGCAG
CCACGGTCACCCTGACACAGATCCCCACAGAGACCACCTATCACACGCTGGAGGAGGGCGTGGTGGAGTA
CTGCACGGCTGAGGCGCCCCACCTCTGCCACCAGAGACCCCTGTGGACATGATGGCCACGATGCAGAC
ACGTGGTCAAGCCGCAAGCGCTCAAGAGCCGATTGCTCTCAACTCCGCCAAGCTGATACAGGAGCAGC
GGGTACCAACCTGCATGTGAAGGAGATCGCACAGCACCTGGAACAGCAGAACGACCTACTGCAGATGAT
CCGCCGCTCCAGGAAGTGCAGGCTGTGCCAGGAGCGCCAGGCCAGGCCATGGAGGGCACACAGGCT
GCCCTGAGCGTCTCATCCAGGTCTCCGCCCTATGATCAAAGATTTCCGCCGTACCTGCAGAGCAACA
CAGCTAACCCGGCCCCCGCTCTGACCCTGGGCAGGTGGCCAGAATGGGCAGCCAGACAGCATCATCCA
G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC213099 representing NM_197956
 Red=Cloning site Green=Tags(s)

MAVPAKKRKMNFSEREVEIIVEEELKKHLLVNHFNAGVPLAAKSAAWHGILRRVNAVATCRRELPEVKK
 KWSDLKTEVRRKVAQVRAAVEGGEAPGPTTEEDGAGGPGTGGGSGGGPAPAVPLLTPMQQRICNLLGEAT
 IISLPSTTEIHPVALGPSATAAAATVTLTQIPTETTYHTLEEGVVEYCTAEAPPLPPETPVDMMQAQHAD
 TSVKPQALKSRIALNSAKLIQEQRVTNLHVKEIAQHLEQQNDLLQMIRRSQEVQACAQERQAQAMEGTQA
 ALSVLIQVLRPMIKDFRRYLQSNANTANPAPASDPGVAQNGQPDSSIIO

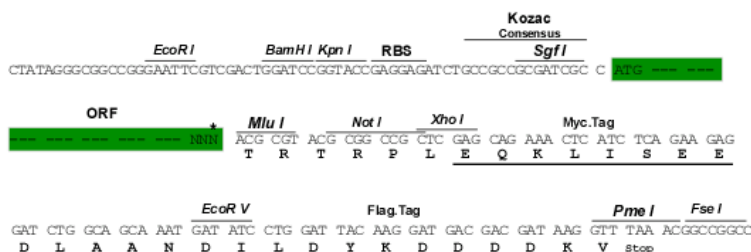
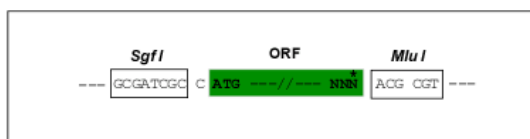
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6511_b09.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 197956

ORF Size: 981 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_197956.3](#)

RefSeq Size: 3198 bp

RefSeq ORF: 984 bp

Locus ID: 203245

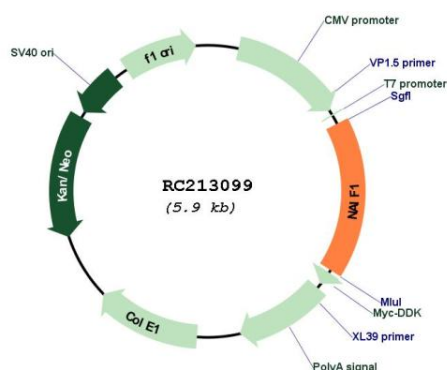
UniProt ID: [Q69YI7](#)

Cytogenetics: 9q34.11

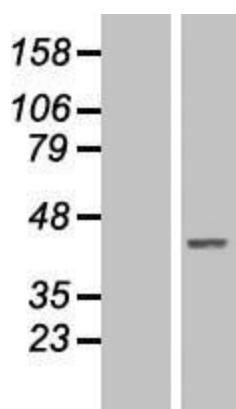
MW: 35 kDa

Gene Summary: Induces apoptosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC213099



Western blot validation of overexpression lysate (Cat# [LY405154]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213099 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).