

Product datasheet for **RC201694**

NAF1 (NM_138386) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NAF1 (NM_138386) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NAF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC201694 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGTAGTGGAGGCCCGCCGCTCAGCTGAAAACCTGAAATTCATGGCACCGACTTTGGAGTTG
 GGAAGGTCCGGCGGCTCCGTCTCCGGGCTCTGCCCTGTGCCAGGGACACAGCCCGCTACAGTCGTT
 TGAGGGGTCCCCGGACGCTGGGCAGACCGTGGAGGTTAAGCCTGCCGGGAGCAGCCTCTGCAGCCCGTT
 CTGAACGCCGTCGCGGCCGGGACCCCGCGCCGACCCAGCCACAGCCACCGGCTGAATCGCCGGCCTGCGGAG
 ACTGCGTCACCTCCCAGGAGCCGACAGCCTGCGCGGGCGCCGACTCCTTGGAGACCTCGGACTCGGA
 TTCGACTCGGACAGTAAACAGATTAGATAGTTCAAGTTCATCGTCTTCTCTTCTCATCTTCTCATCG
 TCGTCTTCTTCTTGTATATCACTTCTCCAGTGTGTGAGATGGAGATGATGATTTACAAGTTGAGA
 AGGAAAAAAGAATTTCTCTTAAAACAAAAGATGAATTAAGTCTTAAAGTGCCTTCTGTTGAAGA
 ACTCACTATTATCTGCCTGAAGATATTGAGTTAAAGCCTTGGGATGGTTTCAAGTATTATTGAACAA
 CTAGTAATAATTGAATCTATGACTAACCTACCTCCAGTTAATGAGGAGACTGTAATTTTTAAAAGTGATC
 GACAAGCAGCAGGAAAGATATTCGAGATATTTGGACCTGTTGCACATCCATTTTATGTGTTACGGTTTAA
 TTCTTCAGATCACATTGAGAGTAAAGGTATTAATAAAGGAGACTATGTATTTTGTCCATCAATGAAA
 GATTTCACTCAATATATTTACAGAAAAACTAAAACAGGATAAGGGATCAGATGCATCATGGAAGAATG
 ATCAGGAACCACCAGAGGCCCTAGATTTTAGTGATGATGAAAAAGAGAAGGAAGCCAAACAGAGGAA
 AAAATCTCAGATCAAGGCCGAAAAAACTCAAATCTGAATTTAATGAGCCTGGTGAAGATTTTACTGAA
 GTACATCAGAATTGGAATGCTCATAGCTCTGCTCAGAGCATGCAAAAAGGATATCGTAACAGAGAATTCA
 CACGAGGATTTCCAGGGCCAGATACCTCGATCTTCCATGGCAGGCCTCCACCTCAGCATTTCTATAA
 CTCAGAACATATGGTATCTCAGGAGACTTCAGGATTTCTTCTCAGAGACAAAATAATCCATTATGCCA
 CAATACCCCTTCTCTTCCAGTGTGACATGCATAATTTTCCCTCCGCCCTCCACCCACCACCAC
 CCCCACCTGTAACATGGGTTGGGCTACACCAACATGGCTGCTCATCCATTACTTAACCTACCATACTC
 CCTACCCACCCTCCCTCCACCCTGCCTCCTCCACCCTTCTGGAGATAGTAATTCTCATTTT
 GGACCTTACTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201694 protein sequence
 Red=Cloning site Green=Tags(s)

MEVVEAAAQLETLKFNGLDFGVGEGPAAPSPGSAPVPGTQPPLQSFEGSPDAGQTVEVKPAGEQPLQPV
 LNAVAAGTPAPQPQPPAESPACGDCVTSFGAAEPARAPDSLETSDSDSDSDSETSDSSSSSSSSSSSSSS
 SSSSSISLPPVLSGDGDDLQVEKENKNFPLKTKDELLELNLPSVEELTIILPEDIELKPLGMVSSIEEQ
 LVIIESMTNLPPVNEETVIFKSDRQAAGKIFEIFGPVAHPFYVLRFNSSDHIESKGIKIKETMYFAPSMK
 DFTQYIFTEKLKQDKGSDASWKNQEPPEALDFSDDEKEKEAKQRKKSQIQGRKKLKSEFNPEGDFTE
 VHQNWNHSSASEHAKGYRNFRTGRFSRARYPRSCHGRPPPQHFYNSEHMVSQETSGFPSQRQNNPIMP
 QYPFPLPVFDMHNFRLRPPPPPPPPVNMGWATPNMAAHPLLNLPYSLPPPPPPPLPPPPSSGDSNSHF
 GPYY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6828_e09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_138386

ORF Size: 1482 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_138386.1](#), [NP_612395.1](#)

RefSeq Size: 1918 bp

RefSeq ORF: 1485 bp

Locus ID: 92345

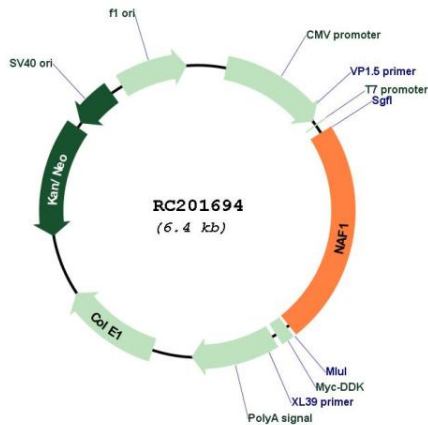
UniProt ID: [Q96HR8](#)

Cytogenetics: 4q32.2

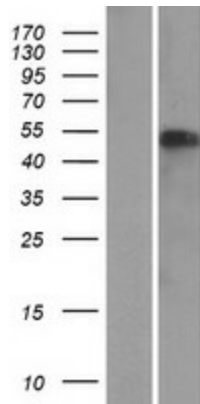
MW: 53.7 kDa

Gene Summary: RNA-binding protein required for the maturation of box H/ACA snoRNPs complex and ribosome biogenesis. During assembly of the H/ACA snoRNPs complex, it associates with the complex and disappears during maturation of the complex and is replaced by NOLA1/GAR1 to yield mature H/ACA snoRNPs complex. Probably competes with NOLA1/GAR1 for binding with DKC1/NOLA4.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC201694



Western blot validation of overexpression lysate (Cat# [LY408651]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201694 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).