

Product datasheet for **RC222223**

NARF (NM_012336) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NARF (NM_012336) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NARF
Synonyms:	IOP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC222223 representing NM_012336
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGAAGTGTGAGCACTGCACGCGCAAGGAATGTAGTAAGAAAACAAAACTGATGACCAAGAGAATGTGT
 CAGCCGATGCACCGAGTCCAGCCAGGAAATGGAGAGAAGGGAGAATCCACAAGTTGGCTGATGCCAA
 GATATTTTGTGAGCGACTGCCTGGCATGTGACAGCTGTATGACTGCAGAGGAAGGAGTCCAACTTTCCAG
 CAAATGCCAAGGACTTCTTCGCGTTCTGAACCTTAACAAGAAATGTGATACCTCAAAGCACAAAGTGC
 TGGTAGTGTCTGTGTCTCAATCTTTGCCTATTTTGTGCTAAATCAACCTCAGTGAAGTATGATGC
 ATCCAGAAGACTCTGTGGTTTCTCAAAGTCTTGGGGTGCATATGATTTGATACGACGATAGCTGCG
 GATTTTAGTATCCTGGAGAGTCAAAAAGAATTCGTGCGTCGCTATCGCCAGCACAGTGAAGAGAACGCA
 CCCTGCCCATGCTGACCTCTGCCTGTCTGGCTGGTCCGATACGCCAGCGGGTCTGGTGCCTCCAT
 CACTGCCACCTCTGCACCGCAAGTCCCCCAGCAGGTATGGGCTCTTGGTGAAGGATTATTTGCC
 AGACAGCAGAACCTGTCTCCAGAGAAGATTTCCACGTATTGTGGCCCTTGTATGACAAGAAGCTGG
 AGGCTCTTCAGGAAGCCTTCCCTGCTTGCATGGCTCCCGGGGCGCTGACTGCGTGTAAACATCAGG
 TGAAATTGCTCAAATAATGGAGCAAGGTGACCTCTCAGTGAGAGATGCTGCCGTCGACACTCTGTTTGA
 GACTTGAAGGAGGACAAAGTACGCGTCATGATGGAGCCAGCTCAGACGGGCACCTGGCACACATCTTCA
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 CTTCCAAGAGGTACCCCTTGAGAAGAACGGAGAGGTGGTGTACGCTTTGCTGCAGCCTATGGCTTTGCA
 AACATCCAGAACATGATCCTGAAGCTTAAGAAGGGCAAGTCCCATTCACCTTTGTGGAGGTCTCGCCT
 GTGCTGGAGGATGCTTAAATGGCAGAGGCCAAGCCAGACTCCAGACGGACATGCGGATAAGGCCCTGCT
 GCGGCAGATGGAAGGCATTTACGCTGACATCCCTGTGCGGCGTCCGGAGTCCAGTGCACACGTGCAGGAG
 CTGTACAGGAGTGGCTGGAGGGGATCAACTCCCCAAGGCCGAGAGGTGCTGCATACCACGTACCAGA
 GCCAGGAGCGTGGCACACACAGCTGGACATCAAGTGG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222223 representing NM_012336
 Red=Cloning site Green=Tags(s)

MKCEHCTRKECSKKTDDQENVSAAPSPAQENGEKGEFHKLADAKIFLSDCLACDSCMTAEQVQLSQ
 QNAKDFFRVLNLNKKCDTSKHKVLVSVCPQSLPYFAAKFNLVTDASRRLCGFLKSLGVHYVFDTTIAA
 DFSILESQKEFVRRYRQHSEERTLPMLTSACPGWVRYAERVLGRPITAHLCATAKSPQVMGSLVKDYFA
 RQQNLSPEKIFHVIVAPCYDKLEALQESLPPALHSGRGADCVLTSGEIAQIMEQDLSVRDAAVDTLFG
 DLKEDKVTRHDGASSDGLAHIFRHAKELFNEDVEEVTYRALRNKDFQEVTLKNGEVVLRFAAAYGFR
 NIQNMILKLLKKGKFPFHFVEVLACAGGCLNGRGAQTPDGHADKALLRQMEGIYADIPVRRPESSAHVQE
 LYQEWLEGINSKAREVLHTTYQSQERGTSLDIKW

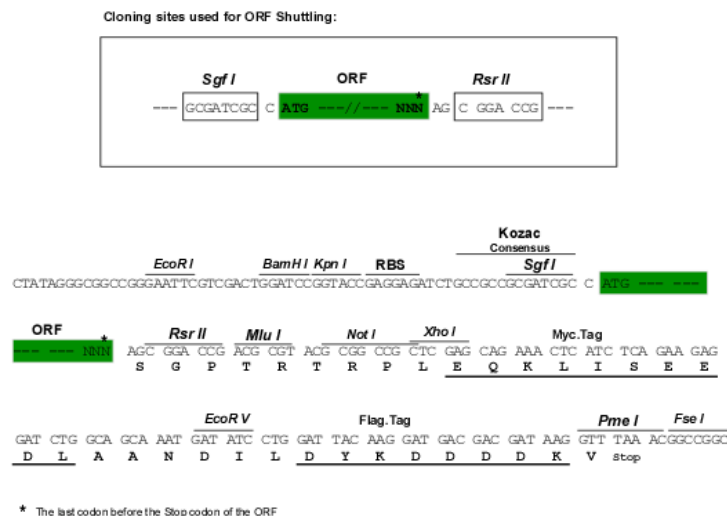
SGPTRRRLE**QKLISEEDLAANDILDYKDDDDKV**

Chromatograms:

https://cdn.origene.com/chromatograms/mk8040_h12.zip

Restriction Sites:

SgfI-RsrII

Cloning Scheme:


ACCN: NM_012336

ORF Size: 1368 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_012336.4](#)

RefSeq Size: 1606 bp

RefSeq ORF: 1371 bp

Locus ID: 26502

UniProt ID: [Q9UHQ1](#)

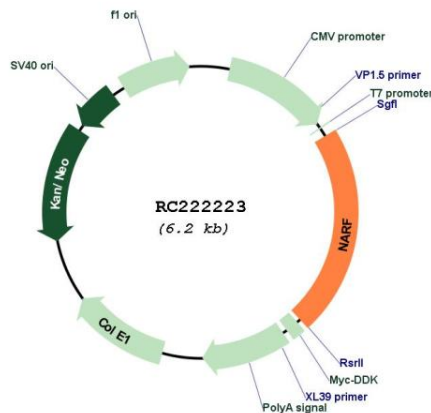
Cytogenetics: 17q25.3

Domains: Fe_hyd_SSU, Fe_hyd_Ig_C

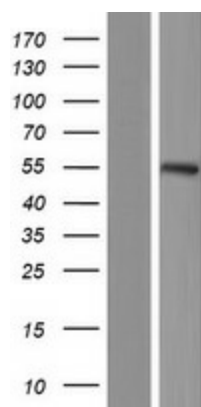
MW: 51 kDa

Gene Summary: Several proteins have been found to be prenylated and methylated at their carboxyl-terminal ends. Prenylation was initially believed to be important only for membrane attachment. However, another role for prenylation appears to be its importance in protein-protein interactions. The only nuclear proteins known to be prenylated in mammalian cells are prelamin A- and B-type lamins. Prelamin A is farnesylated and carboxymethylated on the cysteine residue of a carboxyl-terminal CaaX motif. This post-translationally modified cysteine residue is removed from prelamin A when it is endoproteolytically processed into mature lamin A. The protein encoded by this gene binds to the prenylated prelamin A carboxyl-terminal tail domain. It may be a component of a prelamin A endoprotease complex. The encoded protein is located in the nucleus, where it partially colocalizes with the nuclear lamina. It shares limited sequence similarity with iron-only bacterial hydrogenases. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene, including one with a novel exon that is generated by RNA editing. [provided by RefSeq, Jul 2008]

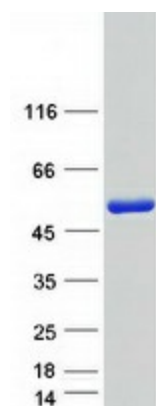
Product images:



Circular map for RC222223



Western blot validation of overexpression lysate (Cat# [LY415832]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222223 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NARF protein (Cat# [TP322223]). The protein was produced from HEK293T cells transfected with NARF cDNA clone (Cat# RC222223) using MegaTran 2.0 (Cat# [TT210002]).