

Product datasheet for **RC215727**

NUFIP1 (NM_012345) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUFIP1 (NM_012345) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NUFIP1
Synonyms:	bA540M5.1; NUFIP; Rsa1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC215727 representing NM_012345
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGAGCCGACTAGTGATTTGAGACTCCTATCGGGTGGCATGCGTCTCCGAGCTGACTCCCACGT
 TAGGGCCCTGAGCGACACTGCCCCGCCGCGGACAGCTGGATGTTCTGGGCAATGCTGCCGCCACCGCC
 ACCACCACTTACGTCCTCGCTTCCCGCAGCCGGGTCAAAGCCTTCTCTGAGTCGAGCCCCCATGGAG
 GCCCAGTCTCTCCCGGGGCTCCGCCCTTCGACGCCAGATTCTCCGGGGCGCAACCCCTTCG
 ACGCCAGTCTCCCTTGATTCTCAGCCTCAACCCAGCGGCCAGCCTTGAATTTCCATGCTTCCACATC
 GTGGTATTGGAGACAGTCTTCTGATAGGTTTCTCGGCATCAGAAGTCCTCAACCTGCAGTAAAAAT
 TCTTATTATCCAGAAAGTATGATGCAAAATTCACAGACTTCAGCTTACCTCCAGTAGAAAACAGAAAA
 AAAAGAAAAGAAAGAACAGTTTTTCACTTTTTTGTGATACCTGTGATCGTGGTTTTAAAAATCAAGA
 AAAGTATGACAAACACATGTCTGAACATACAAAATGCCCTGAATTAGATTGCTTTTTACTGCACACGAG
 AAGATTGTCCAGTTCATTGGAGAAATATGCATGCTCCTGGCATGAAGAAGTCAAGTTAGACACTCCAG
 AGGAAATTGCACGGTGGAGGGAAGAAAGGAAAAAACTATCCAACCTCTGGCCAATATTGAAAGGAAGAA
 GAAGTTAAAACTTGAAGGAGAAGAGAGGAGCAGTATTGACAACAACACAATATGGCAAGATGAAGGGG
 ATGTCCAGACATTCACAAATGGCAAGATCAGAAGTCCTGGCAAGAATCACAATGGAAGAACGACAATT
 CTAGACAGAGAGCAGTCACTGGATCAGGCAGTCACTTGTGTGATTGAAGCTAGAAGTCCACCGGAGGC
 AAATGCAGATCCTCTTGGTGTGTTGATAAACAGTGATTCTGAGTCTGATAAGGAGGAGAAACCACAACAT
 TCTGTGATACCAAGGAAGTGACACCAGCCCTATGCTCACTAATGAGTAGCTATGGCAGTCTTTCAGGGT
 CAGAGAGTGAGCCAGAAGAACTCCCATCAAGACTGAAGCAGACGTTTTTGGCAGAAAACAGGTTCTTGA
 TAGCAGTGCTCCTAAGAGTCCAAGTCAAGATGTTAAAGCAACTGTTAGAAATTTTTCAGAAGCCAAGAGT
 GAGAACCAGAAAGAAAAGCTTTGAAAAACAAACCTAAGAGGAAAAAGATTATCACAACATCAAAAGT
 TATTCGAACCAAGAACACACCATCCATATCTTTGAAATGCTTCTAGCTCCGGACATTCGACATGAAAG
 AAATGTGATTTTGCAGTGTGTCGGTACATCATAAAAAGACTTTTTTGGACTGGATACTAATTCTGCG
 AAAAGTAAAGATGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215727 representing NM_012345
 Red=Cloning site Green=Tags(s)

MAEPTSDFETPIGWHASPELTPTLGPLSDTAPPRDSWMFWAMLP PPPPLTSSLPAAGSKPSSSQPPME
 AQLPLGAPPPFDAQILPGAQPPFDAQSPLDSPQPSGQPNFHAHSTSWYWRQSSDRFPRHQKSFNPAVKN
 SYYPKYDAKFTDFSLPPSRKQKKKKRKEPVFHFCDTCDRGFKNQEKYDKHMSEHTKPELDCSFTAHE
 KIVQFHWNRMHAPGMKKIKLDTPEEIARWREERRKNYPTLANIERKKKKLEKEKRGAVLTTTQYGMKG
 MSRHSQMAKIRSPGKNHKWKNDSRQRAVTGSGSHLCDLKLEGPPEANADPLGVLINSDSESDEEKPQH
 SVIPKEVTPALCSLMSSYGSLSGSESEPEETPIKTEADVLAENQVLDSSAPKSPSQDVKATVRNFSEAKS
 ENRKSFEKTNPKRKDYHNYQTLFEPRTTHPYLLEMLLAPDIRHERNVILQCVRYIIKKDFFGLDTNSA
 KSKDV

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8028_h04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_012345

ORF Size: 1485 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_012345.3](#)

RefSeq Size: 3463 bp

RefSeq ORF: 1488 bp

Locus ID: 26747

UniProt ID: [Q9UHK0](#)

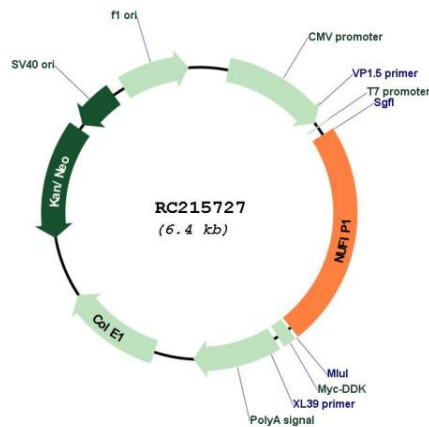
Cytogenetics: 13q14.12

Domains: zf-C2H2

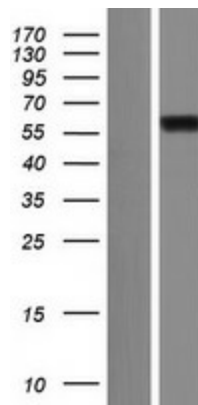
MW: 56.1 kDa

Gene Summary: This gene encodes a nuclear RNA binding protein that contains a C2H2 zinc finger motif and a nuclear localization signal. This protein is associated with the nuclear matrix in perichromatin fibrils and, in neurons, localizes to the cytoplasm in association with endoplasmic reticulum ribosomes. This protein interacts with the fragile X mental retardation protein (FMRP), the tumor suppressor protein BRCA1, upregulates RNA polymerase II transcription, and is involved in box C/D snoRNP biogenesis. A pseudogene of this gene resides on chromosome 6q12. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RC215727



Western blot validation of overexpression lysate (Cat# [LY415803]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215727 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).