

Product datasheet for RC201510

NXT1 (NM_013248) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NXT1 (NM_013248) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NXT1
Synonyms: MTR2; P15
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC201510 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCATCTGTGGATTTCAAGACCTATGTGGATCAGGCCTGCAGAGCTGCTGAGGAGTTTGTCAATGTCT
 ACTACACCACCATGGATAAGCGGCGCGTTTGTCTCCCGCCTGTACATGGGCACAGCCACCCTGGTCTG
 GAATGGCAATGCTGTTTCAGGACAAGAATCCTTGAGTGAGTTTTTGAATGTTGCCTTCCAGCGAGTTC
 CAAATCAGCGTGGTAGACTGCCAGCCTGTTTCATGATGAAGCCACACCAAGCCAGACCACGGTCCTTGTTG
 TCATCTGTGGATCAGTGAAGTTTGAGGGGAACAACAACGGGACTTCAACCAGAACTTCATCCTGACCGC
 CCAGGCCTCACCCAGCAACACAGTGTGGAAGATCGCAAGTGACTGCTCCGCTTCCAGGACTGGCCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201510 protein sequence
 Red=Cloning site Green=Tags(s)

MASVDFKTYVDQACRAAEFVNYYTTMDKRRLLSRLYMGATLVWNGNAVSGQESLSEFFEMLPSEF
 QISVVDCQPVHDEATPSQTTVLVVICGSVKFEGNKQRDFNQNFILTAQASPSNTVWKIASDCFRFQDWS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6025_c07.zip

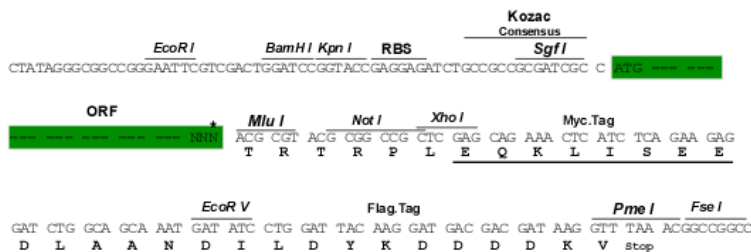
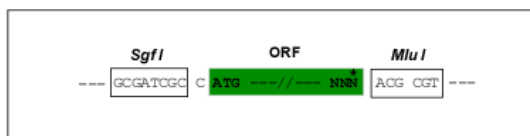
Restriction Sites: SgfI-MluI



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Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_013248

ORF Size: 420 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_013248.3](#)
RefSeq Size: 1176 bp

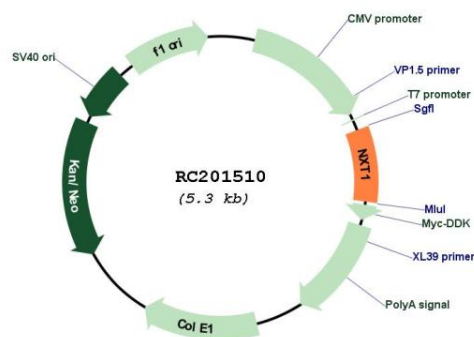
RefSeq ORF: 423 bp

Locus ID: 29107
UniProt ID: [Q9UUK6](#)
Cytogenetics: 20p11.21

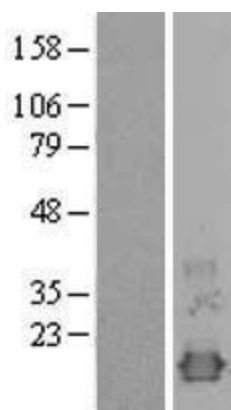
Domains: NTF2
MW: 15.8 kDa

Gene Summary: The protein encoded by this gene is located in the nuclear envelope. It has protein similarity to nuclear transport factor 2. This protein functions as a nuclear export factor in both RAN (Ras-related nuclear protein)- and CRM1 (required for chromosome region maintenance)-dependent pathways. It is found to stimulate the export of U1 snRNA in RAN- and CRM1-dependent pathways and the export of tRNA and mRNA in a CRM1-independent pathway. The encoded protein heterodimerizes with Tap protein and may regulate the ability of Tap protein to mediate nuclear mRNA export. The use of alternate polyadenylation sites has been found for this gene. [provided by RefSeq, Jul 2008]

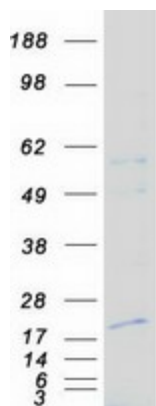
Product images:



Circular map for RC201510



Western blot validation of overexpression lysate (Cat# [LY402231]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201510 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NXT1 protein (Cat# [TP301510]). The protein was produced from HEK293T cells transfected with NXT1 cDNA clone (Cat# RC201510) using MegaTran 2.0 (Cat# [TT210002]).