

Product datasheet for **RC231154**

NIT1 (NM_001185093) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIT1 (NM_001185093) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NIT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC231154 representing NM_001185093 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACTTTTGGACTGCGGAAACGTTTGTGAGAGGAAAGAGGCTTCAGTTTAATGCCAGAGCCATGGCTA
 TCTCCTCTTCTCCTGCGAACTGCCCCCTGGTGGCTGTGTGCCAGGTAACATCGACGCCAGACAAGCAACA
 GAACTTTAAACATGTGCTGAGCTGGTTCGAGAGGCTGCCAGACTGGGTGCCTGCCTGGCTTTCTGCCT
 GAGGCATTTGACTTCATTGCACGGGACCTGCAGAGACGCTACACCTGTCTGAACCACTGGGTGGGAAAC
 TTTTGAAGAATACACCCAGCTTGCCAGGGAATGTGGACTCTGGCTGCTCTGGGTGGTTCCATGAGCG
 TGGCCAAGACTGGGAGCAGACTCAGAAAATCTACAATTGTCACGTGCTGCTGAACAGCAAAGGGGCAGTA
 GTGGCCACTTACAGGAAGACACATCTGTGTGACGTAGAGATTCCAGGGCAGGGGCCTATGTGTGAAAGCA
 ACTCTACCATGCCTGGGCCAGTCTTGAGTCACCTGTGAGCACACCAGCAGGCAAGATTGGTCTAGCTGT
 CTGCTATGACATGCGGTTCCCTGAACTCTCTGGCATTGGCTCAAGCTGGAGCAGAGATACTTACCTAT
 CCTTCAGCTTTTGGATCCATTACAGGCCAGCCCACTGGGAGGTGTTGCTGCGGGCCCGTCTATCGAAA
 CCCAGTGCTATGTAGTGGCAGCAGCACAGTGTGGACGCCACCATGAGAAGAGAGCAAGTTATGGCCACAG
 CATGGTGGTAGACCCCTGGGGAACAGTGGTGGCCCGCTGCTCTGAGGGGCCAGGCCTCTGCCTTGCCCGA
 ATAGACCTCAACTATCTGCGACAGTTGCGCCGACACCTGCCTGTGTTCCAGCACCGCAGGCCTGACCTCT
 ATGGCAATCTGGGTACCCCACTGTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC231154 representing NM_001185093
 Red=Cloning site Green=Tags(s)

MTFGLRKRLSEERGFSLMPRAIISSSSCELPLVAVCQVTSTPDKQQNFKTCAELVREAARLGACLAFLP
 EAFDFIARDPAETLHLSEPLGGKLL EYTQLARECGLWLSLGGFHERGQDWEQTQKIYNCHVLLNSKGAV
 VATYRKTHLCDVEIPGQGPMCESNSTMPGPSLESFVSTPAGKIGLAVCYDMRFP ELSALAQAGAEILTY
 PSAFGSITGPAHWEVLLRARAIETQCYVVAQAQCGRHHEKRASYGHSMVVDPWGTVVARCSEGPGLCLAR
 IDLNYLRQLRRHLPVVFQHRRPDLYGNLGHPLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8051_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001185093

ORF Size: 936 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_001185093.1](#), [NP_001172022.1](#)

RefSeq ORF: 939 bp

Locus ID: 4817

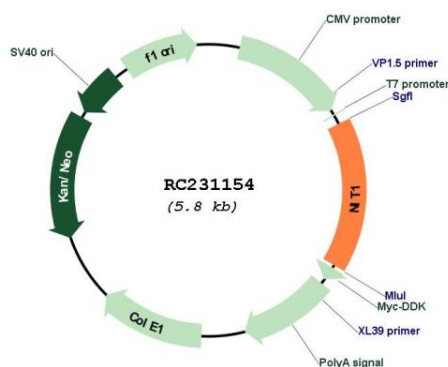
UniProt ID: [Q86X76](#)

Cytogenetics: 1q23.3

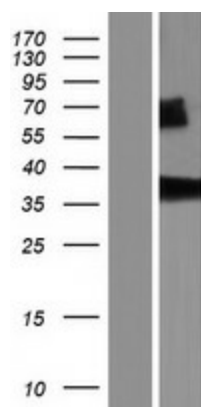
MW: 34.8 kDa

Gene Summary: This gene encodes a member of the nitrilase protein family with homology to bacterial and plant nitrilases, enzymes that cleave nitriles and organic amides to the corresponding carboxylic acids plus ammonia. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2010]

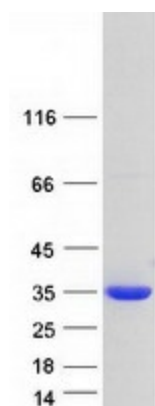
Product images:



Circular map for RC231154



Western blot validation of overexpression lysate (Cat# [LY434153]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231154 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NIT1 protein (Cat# [TP331154]). The protein was produced from HEK293T cells transfected with NIT1 cDNA clone (Cat# RC231154) using MegaTran 2.0 (Cat# [TT210002]).