

Product datasheet for RC231135

NIT1 (NM_001185094) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	NIT1
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PSI00001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC231135 representing NM_001185094
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCTATCTCCTCTTCTCCTGCGAACTGCCCTGGTGGCTGTGTGCCAGGTAACATCGACGCCAGACA
AGCAACAGAACTTTAAACATGTGCTGAGCTGGTTCGAGAGGCTGCCAGACTGGGTGCCTGCCTGGCTTT
CCTGCCTGAGGCATTTGACTTCATTGCACGGGACCCTGCAGAGACGCTACACCTGTCTGAACCACTGGGT
GGGAACTTTTGAAGAATACACCCAGCTTGCCAGGGAATGTGGACTCTGGCTGTCTTGGGTGGTTTCC
ATGAGCGTGGCCAAAGACTGGGAGCAGACTCAGAAAATCTACAATTGTCACGTGCTGCTGAACAGCAAAGG
GGCAGTAGTGGCACTTACAGGAAGACACATCTGTGTGACGTAGAGATTCCAGGGCAGGGGCCTATGTGT
GAAAGCAACTCTACCATGCCTGGGCCAGTCTTGAGTCACCTGTACACACACCAGCAGGCAAGATTGGTC
TAGCTGTCTGCTATGACATGCGGTTCCCTGAACTCTCTCTGGCATTGGCTCAAGCTGGAGCAGAGATACT
TACCTATCCTTCAGCTTTTGGATCCATTACAGGCCAGCCCACTGGGAGGTGTTGCTGCGGGCCCGTGCT
ATCGAAACCCAGTGCTATGTAGTGGCAGCAGCAGTGTGGACGCCACCATGAGAAGAGAGCAAGTTATG
GCCACAGCATGGTGGTAGACCCCTGGGGAACAGTGGTGGCCCGCTGCTCTGAGGGGCCAGGCCTCTGCCT
TGCCCCAATAGACCTCAACTATCTGCGACAGTTGCGCCGACACCTGCCTGTGTTCCAGCACCCGACGGCCT
GACCTCTATGGCAATCTGGGTACCCCACTGTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC231135 representing NM_001185094

Red=Cloning site Green=Tags(s)

MAISSSSCELPLVAVCQVTSTPDKQQNFKTCAELVREARLGACLAFLPEAFDFIARDPAETLHLSEPLG
GKLL E E Y T Q L A R E C G L W L S L G G F H E R G Q D W E Q T Q K I Y N C H V L L N S K G A V V A T Y R K T H L C D V E I P G Q G P M C
E S N S T M P G S L E S P V S T P A G K I G L A V C Y D M R F P E L S L A L A Q A G A E I L T Y P S A F G S I T G P A H W E V L L R A R A
I E T Q C Y V V A A A Q C G R H H E K R A S Y G H S M V V D P W G T V V A R C S E G P G L C L A R I D L N Y L R Q L R R H L P V F Q H R R P
D L Y G N L G H P L S

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8049_h07.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_001185094

ORF Size:

873 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_001185094.1](#), [NP_001172023.1](#)

RefSeq ORF: 876 bp

Locus ID: 4817

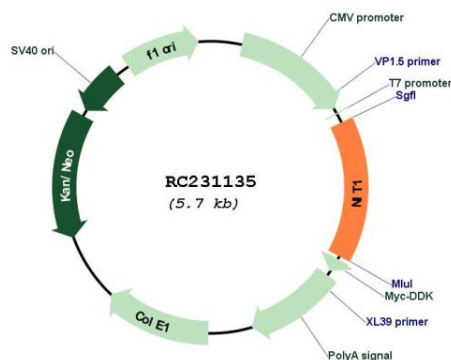
UniProt ID: [Q86X76](#)

Cytogenetics: 1q23.3

MW: 32.3 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 RC231135