

Product datasheet for RC205697

NTAN1 (NM_173474) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NTAN1 (NM_173474) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NTAN1
Synonyms:	PNAA; PNAD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC205697 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCGCTGCTCGTCGAGGGGCGCGAGTGCGGCTGCCGAGTCAGCCGGGGACCTCGTCCGAGCCCACC
CGCCTTTGGAGGAAAGAGCCAGACTTCTCAGAGGTCAGTCTGTTCAACAAGTGGGACCCAGGGCCTTCT
GTATGTTAGCAAGAGAGCTTGCAGTGACCTCCCAAAGGATGGCTCCATCTCCATTCTGGTTCTGAT
GATGCCACTACTTGTACATTGTGGTCCTGAGGCACACAGGTAATGGGGCCACCTGCTTGACACATTGTG
ACGGAACCGACACCAAAGCTGAGGTCCCTTGATCATGAACTCCATAAAATCCTTTTCTGACCACGCTCA
ATGTGGAAGGCTGGAAGTACACCTTGTGGAGGCTTCAGTGACGACAGGCAGTTGTACAAAACTCACT
CATCAACTTCTTAGTGAATTTGACAGGCAAGAAGTACATTCACTTAGTGACATTATGTGTGACAGAAT
TAAATGACCGGGAAGAAAACGAAAACCACTTTCCAGTAATATATGGCATTGCTGTCAACATTAAGACTGC
AGAGATTTACAGAGCATCCTTTCAAGATCGGGTCCGGAGGAGCAGCTTCGTGCTGCGGAACTTTAGCA
GGAGACCAATGATTAGCATTTATGATGCAGAGACAGAACAACCTCGTATAGGACCGTACTCCTGGACAC
CATTTCCACATGTGGATTTCTGGTTGCACCAAGATGACAAGCAAATACTAGAGAATCTTTCACTTCGCC
TCTGGCTGAGCCACCCCACTTTGTTGAACATATTAGATCTACCTTGATGTTTTTAAAAAACACCCATCT
CCAGCTCACACTGTTTTCTGAAATAAAGCCCTACTCTACAAAAAAATGAAGATGGCTTGTTGGGAAA
AGATCTCTTCCAGGAAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC205697 protein sequence
 Red=Cloning site Green=Tags(s)

MPLLVEGRRVRLPQSAGDLVRAHPPLLEERARLLRGQSVQVGPQGLLYVQQRELAVTSPKDGSIILGSD
 DATTCCHIVVLRHTGNGATCLTHCDGTDTKAEVPLIMNSIKSFSFDAQCGRLEVHLVGGFSDDRQLSQKLT
 HQLLSEFDRQEDDIHLVTLCVTELNDREENENHFPVIYIGIAVNIKTAEIYRASFDQRGPEEQLRAARTLA
 GGPMISIIYDAETEQLRIGPYSWTPFPHVDFWLHQDDKQILENLSTSPLAEPHFVEHIRSTLMFLKKHPS
 PAHTLFSGNKALLYKKNEDGLWEKISSPGS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

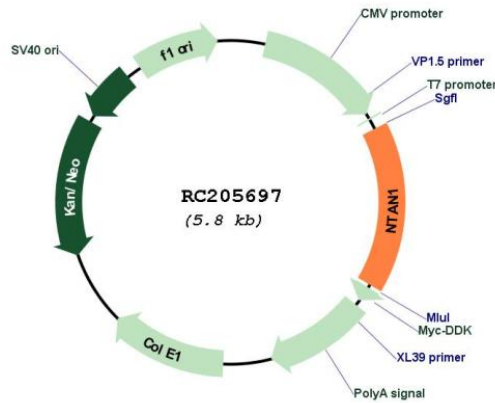
Chromatograms: https://cdn.origene.com/chromatograms/mk6420_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



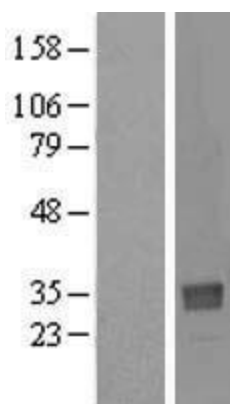
Plasmid Map:



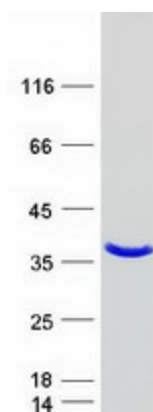
ACCN: NM_173474

ORF Size:	930 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.
RefSeq:	NM_173474.4
RefSeq Size:	1241 bp
RefSeq ORF:	933 bp
Locus ID:	123803
MW:	34.7 kDa
Gene Summary:	The protein encoded by this gene functions in a step-wise process of protein degradation through the N-end rule pathway. This protein acts as a tertiary destabilizing enzyme that deamidates N-terminal L-Asn residues on proteins to produce N-terminal L-Asp. L-Asp substrates are subsequently conjugated to L-Arg, which is recognized by specific E3 ubiquitin ligases and targeted to the proteasome. Pseudogenes of this gene are located on the long arms of chromosomes 8, 10 and 12. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Jul 2012]

Product images:



Western blot validation of overexpression lysate (Cat# [LY406607]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205697 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NTAN1 protein (Cat# [TP305697]). The protein was produced from HEK293T cells transfected with NTAN1 cDNA clone (Cat# RC205697) using MegaTran 2.0 (Cat# [TT210002]).