

Product datasheet for **RR202832**

NIn (NM_053970) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIn (NM_053970) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NIn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR202832 representing NM_053970
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATCACCTGTGCCTTCGACTCTGCGAGGCCTCCACAGAGCTGGTGGCTCCAGGCTTCAGCTGACAA
 TGACACTGGGAAAGGAGCTGGCTTCTCCTTCAAGCTATGTCTTCTACTGCGGCTGGCAGGAATGT
 TCTCAGATGGGACCTTCTCCAGAGCAGATCAAGACGAGGACAGAGCAGCTCATAGCACAGACCAAGCAG
 GTGTACGACACCGTGGGACAATCGCCCTGAAAGAAGTAACTTATGAGAACTGTCTGCAGGTGCTGGCTG
 ACATAGAAGTGACGTACATAGTGAAAGGACCATGCTGGACTTCCTCAGCACGTGTCTGACAGAGA
 AGTGCGGGCTGCAAGCACAGAAGCAGACAAAAGGCTTCTCGTTTTGATATTGAGATGAGCATGAGAGAA
 GATGTGTTTCAGAGAATTGTTTCATTTACAAGAACATGCGATTTGGAGAAGATAAAGCCTGAAGCCAGGC
 GATACTTGAAAAGTCAATTAATGAAAGGAAAGGAAATGGACTCCATCTTTCAGAACACATAAGAAATGA
 AATCAAAATCAATGAAGAAGAGAATGAGTGAGCTATGCATTGACTTCAACAAGAACCTCAATGAGGACGAC
 ACTTCCCTTGATTCTCCAAGGCTGAACTTGGTGTCTTCTGATGACTTCAATTGACAGTTAGAAAAAA
 CAGATGAAGACAAGTACAAAGTTACCTTAAAGTATCCTCACTACTTCCCTGTCATGAAGAAATGCTGTGT
 CCCTGAAACTCGAAGGAAGATGGAAATGGCTTTTCATACCAGGTGCAAACAGGAAAACACCGCAATTCTG
 CAACAGCTCCTCCCGCTGCGAGCTCAAGTGCCAAAGCTGCTGGGCTATAACCCCATGCTGACTTTGTCC
 TTGAACTGAACACTGCGAAGAGCACCAGCCGCTGGCCGCTTCTAGATGATTTAAGCCAGAAATTGAA
 ACCCTTGGGTGAGGCAGAACGGGAGTTTATTTGAGCCTGAAGAAGAAGGAATGTGAAGAGCGAGTTTT
 GAATACGACGGGAAGATCAATGCATGGGACCTCCATTACTACATGACACAGACAGAGGAGCTCAAGTACT
 CGGTGGACCAGGAGTCCCTTAAGGAGTACTTCCCATGAGGTGGTCACGGAAGGCTTGCTAAGCATCA
 CCAGGAGCTGCTGGGACTTTCATTTGAACAAGTGCCCGATGCTCATGTTTGAATAAAGAGCGTTTCACTT
 TACACTGTGAAGGATAAAGCTACAGGAGAGGTCCTGGGGCAGTTCTACCTGGACCTCTATCCAAGGGAAG
 GAAAATACAACCATGCAGCCTGCTTCGGTCTCCAGCCAGGCTGCCTTCTCCCTGATGGCAGTCGGATGAT
 GTCTGTGGCCGCCCTGGTGGTCAACTTCTCTCAGCCTGTAGCAGGTGCGCCCTCTCTCCTGAGACATGAT
 GAAGTGCGGACTTACTTCCAGGATTCGGTCACGTGCATGCATCAGATCTGTGCGCAGACTGACTTTGCAC
 GATTCAGTGGAACAAACGTGAAACTGACTTTGTAGAGGTGCCATCACAATGCTTGAAACTGGGTGTG
 GGACGTTGATCCCTGCGAAAACGTCAAAGCATTATAAAGATGGACACCCTATCACAGACGAGCTGCTC
 GAGAAGCTTGTTGCTTCTAGGCTGGTCAACACAGGTCTTCTGACGCTGCGCCAAATGTTTTGAGCAAAG
 TTGACCAATCTCTCCATACCAATGCGACTCTGGATGCCGCGAGCGAATACGCTAAATACTGCACAGAAAT
 TCTGGGAGTTGCAGCTACGCCAGGCACAAATATGCCAGCTACTTTTGGCACTTGGCAGGAGGGTATGAT
 GGCCAATATTATGGATATCTTTGGAGTGAAGTGTTCATGGACATGTTTCACAGCTGTTTTAAAAAAG
 AGGGGATCATGAATCCAGAGGTTGGAATGAAATACAGAAACTTAATCCTGAAGCCTGGGGGTCCTGGA
 CGGCATGGACATGCTCCAGAATTTCTGCAACGTGAGCCAAACAAAAAGCATTCTAATGAGTCGAGGC
 CTGAATGGTTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202832 representing NM_053970
 Red=Cloning site Green=Tags(s)

MITLCLSTLRGLHRAGGSRLQLTMTLGKELASPLQAMSSYTAAGRNVLRWDL SPEQIKTRTEQLIAQTKQ
 VYDVTGVTIALKEVTYENCLQVLADIEVTYIVERTMLDFPQHVS SDREVRAASTEADKRLSRFDIEMSMRE
 DVFQRIVHLQETCDLEKIKPEARRYLEKSIKMGKRNLHLSEHIRNEIKSMKKRMS ELCIDFNKNLNEDD
 TSLVFSKAEALGALPDDFIDSLEKTDDEK YKVTLYPHYFPVMKKCCVPETRRKMEMAFHTRCKQENTAIL
 QQLLPLRAQVAKLLGYNTHADFLVLELNTAKSTSRVA AFLDDLSQLKPLGEAEREFILSLKKKECEERGF
 EYDGINAWDLHYMTQTEELKYSVDQESLKEYFPIEVVTEGLLSIYQELLGLSFEQVPDAHVNKSVSL
 YTVKDKATGEVLGQFYLDLYPREGKYNHAACFGLQPGCLLPDGSRMMSVAALVVNF SQPVAGRPSLLRHD
 EVRTYFHEFGHVMHQICAQTD FARFSGTNVETDFVEVPSQMLENWWVDVSLRKL SKHYKDGHPITDELL
 EKLVASRLVNTGLLTLRQIVLSKVDQSLHTNATLDAASEYAKYCTEILGVAATPGTNMPATFGHLAGGYD
 GQYYGYLWSEVFSMDMFHSCFKKEGIMNPEVGMKYRNLILKPGGSLDGM DMLQNFLQREPQKAF LMSRG
 LNGS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_053970

ORF Size: 2112 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.

RefSeq: [NM_053970.2](#), [NP_446422.2](#)

RefSeq Size: 2705 bp

RefSeq ORF: 2115 bp

Locus ID: 117041

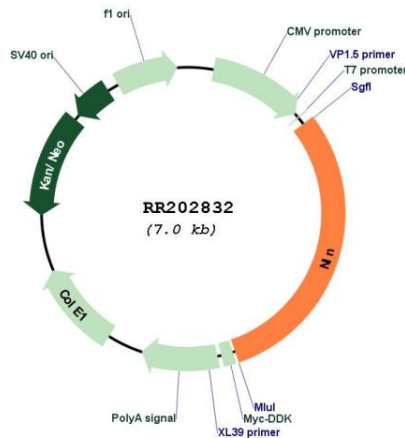
UniProt ID: [P42676](#)

Cytogenetics: 2q12

MW: 80.3 kDa

Gene Summary: endopeptidase that cleaves bioactive and synthetic peptides [RGD, Feb 2006]

Product images:



Circular map for RR202832