

Product datasheet for **MR210154**

NIn (NM_029447) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIn (NM_029447) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NIn
Synonyms:	4930472G13Rik; C79345
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210154 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCACCTGTGCCTTCGGCTCTGCGAGGCCTCCACAGAGCTGGTGGTTCCAGGATTCGGCTCAGAA
TGACGTTGGGGAGGGAGCGGCATCTCCTTTCAGGCCATGTCTTCTACACCGCCGAGGCAGGAATGT
TCTCAGATGGGACCTTCTCCAGAGCAGATCAGGACGAGGACAGAGGAGCTCATAGCACAGACCAAGCAG
GTGTATGATACCGTGGGACAATCAACCTGGAGGATGTAACCTACGAGAAGTGTCTGAGGTTGGCTG
ACATAGAAGTGAAGTACATAGTGAAAGGACCATGCTGGACTTCCTCAGCACGTGTCGTCTGACAGAGA
AGTGCGGGCTGCAAGCACAGAAGCGGACAAAAGGCTTTCGTTTTGATATTGAGATGAGCATGAGAGAA
GATGTATTTAGAGAATTGTTTCATTTACAAGAACGTGCGATTTGGAGAAGATAAAGCCTGAGGCCAGGC
GATACTTGAAAAATCAATTAATGGGAAAAGGAATGGACTCCATCTCCAGAACACGTAATAAATGA
AATCAAAATCAATGAAGAAGAGAATGAGTGAGCTATGCATTGACTTCAACAAAAACCTCAATGAGGATGAC
ACGTCCCTTGATTTTCAAGGCTGAACCTGGTGTCTTCCCAGCAGCTTCAATTGACAGTTAGAAAAAA
CAGATGAAGACAAGTACAAAGTTACCTTAAAGTATCCCCACTATTTTCTGTGATGAAGAAATGCTGTGT
CCCTGAAACTCGAAGGAAGATGGAATGGCTTTTCATACCAGGTGCAAAGAGGAAAAACCCATAATTCTG
CAACAGCTCCTGCCGCTGCGAGCACAAGTGCCAAACTGCTCGGCTACAACCCCATGCTGACTTTGTCC
TTGAACTGAACACTGCAAAGAGCACAAGCCATGTGGCAACCTTTCTAGATGATTTAAGCCAGAAATAAA
ACCCTTGGGTGAGGCTGAACGGGAGTTTATTTGAGCTTGAAGAAGAAGGAATGCGAAGAGCGAGTTTT
GCATACGACGGGAAGATCAACGCATGGGACCTCCATTACTACATGACCCAGACAGAGGAGCTCAAGTACT
CTGTGGACCAGGAGTCCCTCAAGGAGTACTTTCCATTGAGGTGGTCACTGAAGGCTGCTAAGCATCTA
CCAGGAGCTGTTGGGACTTTCATTTGAACAAGTGGCTGATGCCCATGTTTGAATAAAGAGTGTTCACCT
TACACCGTGAAGGATAAAGCTACTGGAGAAGTGTGGGGCAGTTCTACCTGGACCTCTATCCAAGGGAAG
GAAAATACAACCATGCGGCCTGCTTTGGTCTCCAGCCAGGCTGCCTTCTCCCTGATGGCAGTCGGATGAT
GTCTGTGGCTGCCCTGGTGGTCAACTTCTCTCAGCCCATAGCAGGCCGGCCCTCTCTCTGAGACACGAC
GAAGTGCGAACTTACTTCCATGAGTTTGGTACGTCATGCATCAGATCTGTGCACAGACTGACTTTGCAC
GATTTAGTGAACAAATGTGAAACTGACTTTGTAGAGGTGCCATCACAATGCTTGAAACTGGGTGTG
GGACATTGACTCCCTGCGAAAATGTCAAACATTATAGAGACGGACACCCTATCACAGACGAGCTGCTG
GAGAAGCTTGTGGCTTCGAGACTGGTCAACACAGGTCTTCTGACGCTTCGCCAAATGTTTTGAGCAAAG
TTGACCAGTCCCTCCATACCAATGCGTCGCTGGATGCCGCGAGCGAATACGCTAAATACTGCACAGAAAT
TTTGGGAGTTGCAGCTACGCCAGGCACAAATATGCCAGCTACCTTTGGACATTTGGCAGGAGGGTATGAC
GGCCAGTATTATGGATATCTTTGGAGTGAAGTCTTTCCATGGACATGTTTCACAGCTGTTTCAGAAAAAG
AAGGGATTATGAATCCAGAGGTTGGAATGAAATACAGAAACCTAATCCTGAAGCCTGGGGGTCCTGGA
CGGCATGGACATGCTCCAGAATTTCTTGAACGTGAGCCAAACCAGAAAGCATTCTGATGAGTCGAGGC
CTGAATGCTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210154 protein sequence
Red=Cloning site Green=Tags(s)

MITLCLSALRGLHRAGGSRIIRLRLMTLGREASPLQAMSSYTAAGRNVLRWDL SPEQIRTRTEELIAQTKQ
 VYDTVGTINLEDVTYENCLQVLADIEVKYIVERTMLDFPQHVSDDREVRAASTEADKRLSRFDIEMSMRE
 DVFQRIVHLQETCDLEKIKPEARRYLEKSIKMGKRNLHLPEHVKNEIKSMKKRMSLCLIDFNKLNEDD
 TSLVFSKAELGALPDDFIDSLEKTDDEKVKVTLKYPHYFPVMKKCCVPETRRKMEMAFHTRCKEENTIIIL
 QQLLPLRAQVAKLLGYNTHADFLVLELNTAKSTSHVATFLDDLSQLKPLGEAEREFILSLKKKECEERGF
 AYDGKINAWDLHYMTQTEELKYSVDQESLKEYFPIEVVTEGLLSIYQELLGLSFEQVADAHVWNKSVSL
 YTVKDKATGEVLGQFYLDLYPREGKYNHAACFGLQPGCLLPDGSRMMSVAALVVNF SQPIAGRPSLLRHD
 EVRTYFHEFGHVMHQICAQTD FARFSGTNVETDFVEVPSQMLENWWIDSLRKL SKHYRDGHPITDELL
 EKLVASRLVNTGLLTLRQIVLSKVDQSLHTNASLDAASEYAKYCTEILGVAATPGTNMPATFGHLAGGYD
 GQYYGYLWSEVFSMDMFHSCFRKEGIMNPEVGMKYRNLILKPGGSLDGMMDLQNFLOREPQKAF LMSRG
 LNAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_029447

ORF Size: 2115 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_029447.2](#)

RefSeq Size: 3780 bp

RefSeq ORF: 2115 bp

Locus ID: 75805

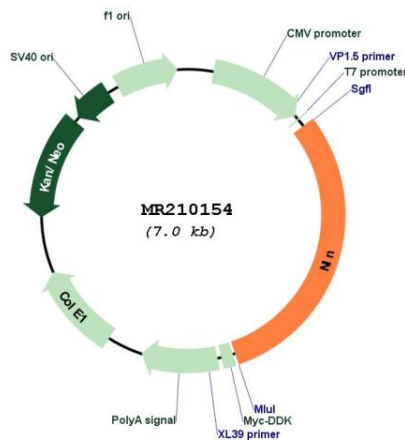
UniProt ID: [Q91YP2](#)

Cytogenetics: 13 D1

MW: 80.4 kDa

Gene Summary: Hydrolyzes oligopeptides such as neurotensin, bradykinin and dynorphin A.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210154