

Product datasheet for **RC201543**

N myc interactor (NMI) (NM_004688) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	N myc interactor (NMI) (NM_004688) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NMI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC201543 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAAGCTGATAAAGATGACACACAACAATTCTTAAGGAGCATTGCCAGATGAATTTATAAAAGATG
AACAAAAAAGGGACTAATTGATGAAATTACAAGAAAAATTTCAACTAAAGAAGGAGATCCAAAAGCT
TGAAACGGAGTTACAAGAGGCTACCAAAGAATTCAGATTAAGAGGATTTCTGAAACAAAGATGAAA
TTCTTATCAGTTGAACTCCTGAGAATGACAGCCAGTTGTCAAATATCTCCTGTTCAATTTCAAGTGAGCT
CGAAAGTTCCTTATGAGATACAAAAAGGACAAGCACTTATCACCTTTGAAAAAGAAGAAGTTGCTCAAAA
TGTGGTAAGCATGAGTAAACATCATGTACAGATAAAAGATGTAATCTGGAGGTTACGGCCAAGCCAGTT
CCATTAATTCAGGAGTCAGATTCAGGTTTATGTAGAAGTTTCTAAAATGAAAAACAATGTTACTGAAA
TTCCTGACACATTGCGTGAAGATCAAATGAGAGACAACTAGAGCTGAGCTTTTCAAAGTCCCGAAATGG
AGGCGGAGAGGTGGACCGCTGGACTATGACAGACAGTCCGGGAGTGAGTCATCACGTTTGTGGAGATT
GGAGTGGCTGACAAGATTTTAAAAAGAAAGAATACCCTCTTTATATAAATCAAACCTGCCATAGAGTTA
CTGTTTCTCCATACACAGAAATACACTTAAAAAGTATCAGATATTTTCAGGAACATCTAAGAGGACAGT
GCTTCTGACAGGAATGGAAGGCATTCAAATGGATGAAGAAATTTGGAGGATTTAATTAACATTCACTTT
CAACGGGCAAAGAATGGAGGTGGAGAAGTAGATGTGGTCAAGTGTCTCTAGGTCAACCTCACATAGCAT
ACTTTGAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201543 protein sequence
 Red=Cloning site Green=Tags(s)

MEADKDDTQQILKEHSPDEFIKDEQNKGLIDEITKKNIQLKKEIQKLETELQEATKEFQIKEDIPETKMK
 FLSVETPENDSQLSNISCSFQVSSKVPYEQKQALITFEKEEVAQNVSMSKHHVQIKDVNLEVTAKPV
 PLNSGVRVQVYVEVSKMKINVTEIPDTLREDQMRDKLELSFSKSRNGGGEVDRVDYDRQSGSAVITFVEI
 GVADKILKKKEYPLYINQTCRVRTVSPYTEIHLKKYQIFSGTSKRTVLLTGMEGIQMDEEIVEDLINIHF
 QRAKNGGGEVDVVKCSLGQPHIAYFEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

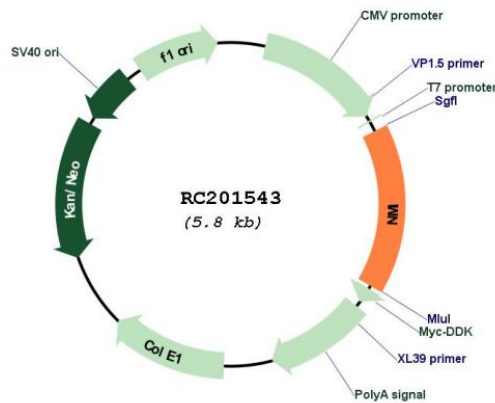
Chromatograms: https://cdn.origene.com/chromatograms/mk6300_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

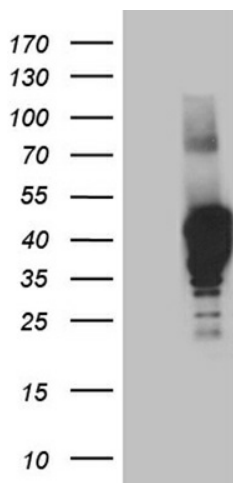


Plasmid Map:

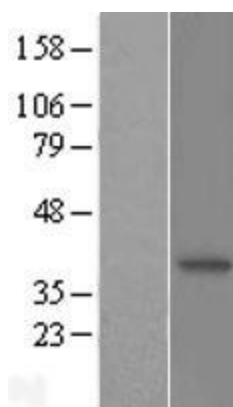


ACCN:	NM_004688
ORF Size:	921 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_004688.3
RefSeq Size:	1501 bp
RefSeq ORF:	924 bp
Locus ID:	9111
UniProt ID:	Q13287
Protein Families:	Druggable Genome, Transcription Factors
MW:	35.1 kDa
Gene Summary:	NMYC interactor (NMI) encodes a protein that interacts with NMYC and CMYC (two members of the oncogene Myc family), and other transcription factors containing a Zip, HLH, or HLH-Zip motif. The NMI protein also interacts with all STATs except STAT2 and augments STAT-mediated transcription in response to cytokines IL2 and IFN-gamma. The NMI mRNA has low expression levels in all human fetal and adult tissues tested except brain and has high expression in cancer cell line-myeloid leukemias. [provided by RefSeq, Jul 2008]

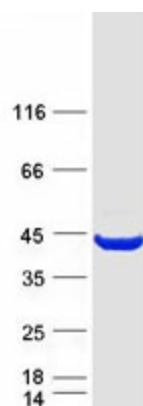
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NMI (Cat# RC201543, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NMI (Cat# [TA809982])(1:2000). Positive lysates [LY417813] (100ug) and [LC417813] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417813]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201543 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NMI protein (Cat# [TP301543]). The protein was produced from HEK293T cells transfected with NMI cDNA clone (Cat# RC201543) using MegaTran 2.0 (Cat# [TT210002]).