

Product datasheet for **RG201543**

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:	TurboGFP
Symbol:	N myc interactor
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201543 representing NM_004688 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCTGATAAAGATGACACACAACAAATTCTTAAGGAGCATTGCCAGATGAATTTATAAAAGATG
AACAAAATAAGGGACTAATTGATGAAATTACAAAGAAAAATTTCAACTAAAGAAGGAGATCCAAAAGCT
TGAAACGGAGTTACAAGAGGCTACCAAAGAATTCAGATTAAGAGGATATTCCTGAAACAAAGATGAAA
TTCTTATCAGTTGAAACTCCTGAGAATGACAGCCAGTTGTCAAATATCTCCTGTTCAATTTCAAGTGAGCT
CGAAAGTTCCCTTATGAGATACAAAAGGCAAGCACTTATCACCTTTGAAAAGAAGAAGTTGCTCAAAA
TGTGGTAAGCATGAGTAAACATCATGTACAGATAAAGATGTAAATCTGGAGTTACGGCCAAGCCAGTT
CCATTAATTCAGGAGTCAGATTCAGGTTTATGTAGAAGTTTCTAAAATGAAAATCAATGTTACTGAAA
TTCCTGACACATTGCGTGAAGATCAAATGAGAGACAACTAGAGCTGAGCTTTTCAAAGTCCCGAAATGG
AGGCGGAGAGGTGGACCGCTGGACTATGACAGACAGTCCGGGAGTGCAGTCATCACGTTTGTGGAGATT
GGAGTGGCTGACAAGATTTTAAAAAGAAAGAATACCCTCTTATATAAATCAAACCTGCCATAGAGTTA
CTGTTTCTCCATACACAGAAATACACTTGAAAAAGTATCAGATATTTTCAGGAACATCTAAGAGGACAGT
GCTTCTGACAGGAATGGAAGCATTCAAATGGATGAAGAAATTTGGAGGATTTAATTAACATTCACCTT
CAACGGGCAAAGAATGGAGGTGGAGAAGTAGATGTGGTCAAGTGTCTCTAGGTCAACCTCACATAGCAT
ACTTTGAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201543 representing NM_004688
Red=Cloning site Green=Tags(s)

MEADKDDTQQILKEHSPDEFIKDEQNKGLIDEITKKNIQLKKEIQKLETELQEATKEFQIKEDIPETKMK
 FLSVETPENDSQLSNISCSFQVSSKVPYEQKQALITFEKEEVAQNVSMSKHHVQIKDYNLEVTAKPV
 PLNSGVRFQVYVEVSKMKINVTEIPDTLREDQMRDKLELSFSKSRNGGGEVDRVDYDRQSGSAVITFVEI
 GVADKILKKKEYPLYINQTCRVRTVSPYTEIHLKKYQIFSGTSKRTVLLTGMEGIQMDEEIVEDLINIHFI
 QRAKNGGGEVDVVKCSLGQPHIAYFEE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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.

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_004688.1](#), [NP_004679.1](#)

RefSeq Size: 1426 bp

RefSeq ORF: 924 bp

Locus ID: 9111

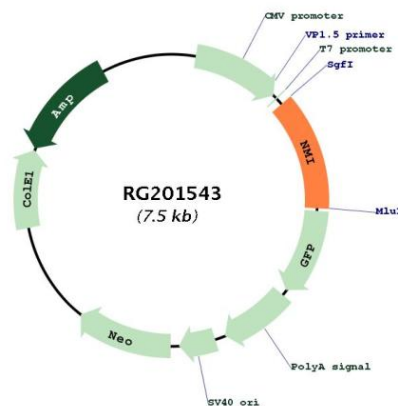
UniProt ID: [Q13287](#)

Cytogenetics: 2q23.3

Protein Families: Druggable Genome, Transcription Factors

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:



Circular map for RG201543