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Product datasheet for RC207117

MNDA (NM_002432) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MNDA (NM_002432) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MNDA
Synonyms:	PYHIN3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC207117 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGAATGAATACAAGAAAATTCTTTTGCTGAAAGGATTTGAGCTCATGGATGATTATCATTTTACAT
CAATTAAGTCCTTACTGGCCTATGATTTAGGACTAACTACAAAAATGCAAGAGGAATACAACAGAATTAA
GATTACAGATTTGATGGAAAAAAAGTTCCAAGGCGTTGCCTGTCTAGACAAACTAATAGAACTTGCCAAA
GATATGCCATCACTTAAAAACCTTGTTAACAATCTTCGAAAAGAGAAGTCAAAAGTTGCTAAGAAAATTA
AAACACAAGAAAAAGCTCCAGTGAAAAAAATAAACCAGGAAGAAGTGGGTCTTGCGGCACCTGCACCCAC
CGCAAGAAACAAACTGACATCGGAAGCAAGAGGGAGGATTCCTGTAGCTCAGAAAAGAAAAACTCCAAAC
AAAGAAAAGACTGAAGCCAAAAGGAATAAGGTGTCCCAAGAGCAGAGTAAGCCCCCAGGTCCCTCAGGAG
CCAGCACATCTGCAGCTGTGGATCATCCCCCACTACCCCAGACCTCATCATCAACTCCATCCAACACTTC
GTTTACTCCGAATCAGGAAACCCAGGCCCAACGGCAGGTGGATGCAAGAAGAAATGTTCCCCAAAACGAC
CCAGTGACAGTGGTGGTACTGAAAGCAACAGCGCCATTTAAATACGAGTCCCCAGAAAATGGGAAAAGCA
CAATGTTTCATGCTACAGTGGCCAGTAAGACTCAATATTTCCATGTGAAAGTCTTCGACATCAACTTGAA
AGAGAAATTTGTAAGGAAGAAGGTCATTACCATATCTGATTACTCTGAATGTAAAGGAGTAATGGAAATA
AAGGAAGCATCATCTGTGTCTGACTTTAATCAAAATTTTGAGGTCCCAAACAGAATTATCGAAATAGCAA
ATAAAACTCCCAAGATCAGTCAACTTTACAAGCAAGCATCTGGAACAATGGTGTATGGGTTGTTTATGTT
ACAAAAGAAAAGCGTACACAAGAAGAACACAATTTATGAAATACAGGATAATACAGGATCCATGGATGTA
GTGGGGAGTGGAAAATGGCACAATATCAAGTGTGAGAAAGGAGATAAACTTCGACTCTTCTGCCTTCAAC
TGAGAACAGTTGACCGCAAGCTGAAACTGGTGTGTGGAAGTCACAGCTTCATCAAGGTCATCAAGGCCAA
GAAAAACAAGGAAGGACCAATGAATGTTAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC207117 protein sequence
Red=Cloning site Green=Tags(s)

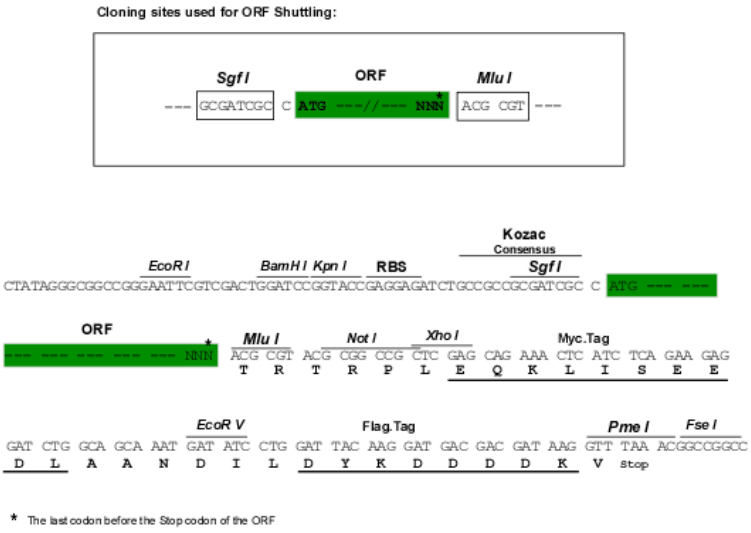
MVNEYKKILLLKGFELMDDYHFTSIKSLLAYDLGLTTKMQEEYNRIKITDLMEKKFQGVACLDKLIELAK
DMPSLKNLVNNLRKEKSKVAKKIKTQEKAPVKKINQEEVGLAAPAPTARNKLTSEARGRIPVAQKRKTPN
KEKTEAKRNKVSQEQSKPPGPSGASTSAAVDHPPLPQTSSSTPSNTSFTPNQETQAQRQVDARRNVPQND
PVTVVVLKATAPFKYESPENGKSTMFHATVASKTQYFHVKVFDINLKEKFVRKKVITISDYSECKGVMEI
KEASSVSDFNQNFEVPNRIIEIANKTPKISQLYKQASGTMVYGLFMLQKKSVHKKNTIYEIQDNTGSMDV
VGSGKWHNIKCEKGDKLRLFCLQLRTVDRKLKLVCGSHSFIKVIKAKKNKEGPMNVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6020_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002432

ORF Size: 1221 bp

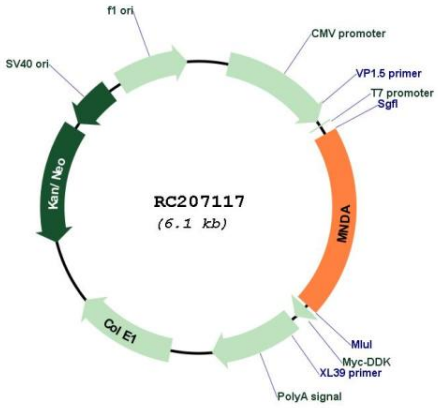
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

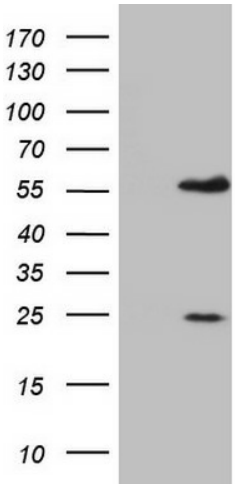
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_002432.3
RefSeq Size:	1670 bp
RefSeq ORF:	1224 bp
Locus ID:	4332
UniProt ID:	P41218
Cytogenetics:	1q23.1
Domains:	PAAD_DAPIN, HIN
Protein Families:	Transcription Factors
MW:	45.8 kDa
Gene Summary:	The myeloid cell nuclear differentiation antigen (MNDA) is detected only in nuclei of cells of the granulocyte-monocyte lineage. A 200-amino acid region of human MNDA is strikingly similar to a region in the proteins encoded by a family of interferon-inducible mouse genes, designated Ifi-201, Ifi-202, and Ifi-203, that are not regulated in a cell- or tissue-specific fashion. The 1.8-kb MNDA mRNA, which contains an interferon-stimulated response element in the 5-prime untranslated region, was significantly upregulated in human monocytes exposed to interferon alpha. MNDA is located within 2,200 kb of FCER1A, APCS, CRP, and SPTA1. In its pattern of expression and/or regulation, MNDA resembles IFI16, suggesting that these genes participate in blood cell-specific responses to interferons. [provided by RefSeq, Jul 2008]

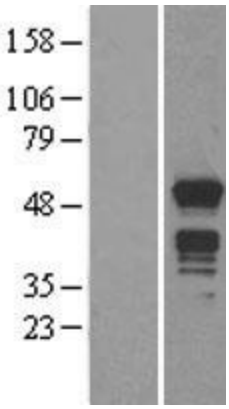
Product images:



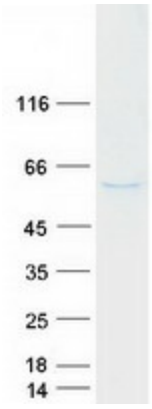
Circular map for RC207117



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MNDA (Cat# RC207117, 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-MNDA(Cat# [TA807178]). Positive lysates [LY400871] (100ug) and [LC400871] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400871]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207117 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MNDA protein (Cat# [TP307117]). The protein was produced from HEK293T cells transfected with MNDA cDNA clone (Cat# RC207117) using MegaTran 2.0 (Cat# [TT210002]).