

## Product datasheet for **RG207117**

### MNDA (NM\_002432) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MNDA (NM_002432) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MNDA
Synonyms:	PYHIN3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207117 representing NM_002432 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGAATGAATACAAGAAAATCTTTTGTGAAAGGATTTGAGCTCATGGATGATTATCATTTTACAT  
CAATTAAGTCCTTACTGGCCTATGATTTAGGACTAACTACAAAAATGCAAGAGGAATACAACAGAATTAA  
GATTACAGATTTGATGGAAAAAAGTTCCAAGGCGTTGCCTGTCTAGACAACTAATAGAAGTTGCCAAA  
GATATGCCATCACTTAAAAACCTTGTTAACAATCTTCGAAAAGAGAAGTCAAAGTTGCTAAGAAAATTA  
AAACACAAGAAAAGCTCCAGTGAAAAAATAAACCCAGGAAGAAGTGGGTCTTGGCGCACCTGCACCCAC  
CGCAAGAAAACAACTGACATCGGAAGCAAGAGGGAGGATTCCTGTAGCTCAGAAAAGAAAACTCCAAC  
AAAGAAAAGACTGAAGCCAAAAGGAATAAGGTGTCCCAAGAGCAGAGTAAGCCCCAGGTCCCTCAGGAG  
CCAGCACATCTGCAGCTGTGGATCATCCCCACTACCCAGACCTCATCATCAACTCCATCCAACACTTC  
GTTTACTCCGAATCAGGAAACCCAGGCCAACGGCAGGTGGATGCAAGAAGAAATGTTCCCAAAACGAC  
CCAGTGACAGTGGTGGTACTGAAAGCAACAGCGCCATTTAAATACGAGTCCCAAGAAAATGGGAAAAGCA  
CAATGTTTCATGCTACAGTGGCCAGTAAGACTCAATATTTCCATGTGAAAGTCTTCGACATCAACTTGAA  
AGAGAAAATTTGTAAGGAAGAAGGTCATTACCATATCTGATTACTCTGAATGTAAGGAGTAATGGAATA  
AAGGAAGCATCATCTGTGTCTGACTTTAATCAAAATTTGAGGTCCCAACAGAATTATCGAAATAGCAA  
ATAAACTCCCAAGATCAGTCAACTTTACAAGCAAGCATCTGGAACAATGGTGTATGGGTTGTTTATGTT  
ACAAAAGAAAAGCGTACACAAGAAGAACAATTTATGAAATACAGGATAATACAGGATCCATGGATGTA  
GTGGGGAGTGGAAAATGGCACAATATCAAGTGTGAGAAAGGAGATAAACTTCGACTCTTCTGCCTTCAAC  
TGAGAACAGTTGACCGCAAGCTGAAACTGGTGTGTGGAAGTCACAGCTTCATCAAGGTATCAAGGCCAA  
GAAAAACAAGGAAGGACCAATGAATGTTAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

**Protein Sequence:** >RG207117 representing NM\_002432  
 Red=Cloning site Green=Tags(s)

MVNEYKKILLKGFELMDDYHFTSIKSLLAYDLGLTTKMQEEYNRIKITDLMEKKFQGVACLDKLIELAK  
 DMPSLKLNLVNLRKEKSKVAKKIKTQEKAPVKKINQEEVGLAAPAPTARNKLTSEARGRIPVAQKRKTPN  
 KEKTEAKRNKVSQEQSKPPGPGSASTAAVDHPPLPQTSSSTPSNTSFTPNQETQAQRQVDARRNVQND  
 PVTVVVLKATAPFKYESPENKSTMFHATVASKTQYFHVKVFIDLNLKEKQVVRKKVITISDYSECKGVMEI  
 KEASSVDFNQNFVFNRIIEIANKTPKISQLYKQASGTMVYGLFMLQKKSVHKKNTIYEIQDNTGSMVD  
 VSGSKWHNIKCEKGDKLRLFLCLQLRTVDRKLLVCGSHSFIKVIKAKKNKEGPMNVN

TRTRPLE - GFP Tag - V

**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](#)

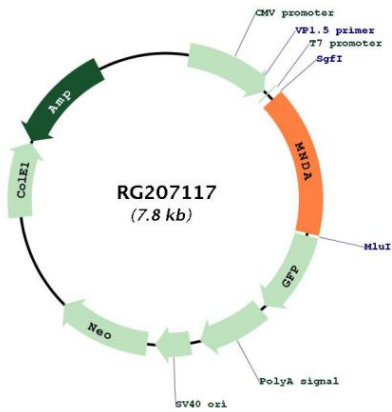
**Cytogenetics:** 1q23.1

**Domains:** PAAD\_DAPIN, HIN

**Protein Families:** Transcription Factors

**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 RG207117