

## Product datasheet for **MG223083**

### **Nfya (NM\_001110832) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nfya (NM\_001110832) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Nfya  
**Synonyms:** AA407810; Cbf-b; SEZ-10; SEZ10  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG223083 representing NM\_001110832  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCAGTATACGACAAACAGCAATAGTTCCACAGAGCAGATCGTGGTGCAGGCCGGCCAGATTCAGC  
AGCAGCAGCAGGGTGGTGTCACTGCTGTCCAGCTGCAGACTGAGGCCAGGTGGCATCCGCCTCAGGCCA  
GCAAGTCCAGACCCTCCAGGTAGTCCAGGGCAGCCGTTAATGGTGAAGTCAGTGGAGGCCAGCTTATT  
ACATCAACAGGCCAACCCATCATGGTACAGGCTGTGCCTGGTGGACAAGGCCAAACCATCATGCAAGTAC  
CTGTGTCTGGAACACAAGGTTTACAGCAGATACAGTTGGTGCCTCCTGGACAGATCCAGATTCAGGGTGG  
GCAGGCTGTGCAGGTGCAAGGCCAGCAGGGTCAAACCCAGCAGATCATCATCCAACAGCCACAGACTGCA  
GTCACTGTGGCCAGACTCAGACACAACAACAGATTGCTGTCCAGGGACAGCAAGTGGCCAGACTGCTG  
AAGGACAGACTATTGTCTACCAACCAGTTAATGCAGATGGCACAATTCTCCAGCAAGTTACAGTCCCTGT  
TTCAGGCATGATCACCATCCCAGCAGCCAGTTTGGCAGGGGCACAGATCGTTCAGACAGGAGCCAAATACC  
AACACAACCAGCAGTGGACAAGGGACGGTCACTGTGACTGCCTGTGGCAGGGAATGTGGTCAACTCAG  
GAGGAATGGTCATGATGGTACCAGGAGCTGGCTCTGTGCCTGCTATCCAAGAATCCCTTACCTGGAGC  
AGAGATGCTGGAAGAAGAGCCCCCTGTATGTGAATGCCAAACAGTATCACCGCATCCTTAAGAGGAGACAA  
GCACGGGCTAAGCTAGAGGCAGAAGGAAAAATCCCAAAGGAACGAAGGAAATACCTCCATGAGTCTCGGC  
ATCGGCACGCCATGGCACGGAAGCGTGGGGAAGGGGCCCTTCTTCTCCTCCAAAAGAAAAGACAGTCC  
TCACATGCAGGATCCAACCAAGCTGACGAAGAAGCCATGACACAGATCATCCGAGTTTCC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >MG223083 representing NM\_001110832  
Red=Cloning site Green=Tags(s)

MEQYTTNSNSSTEQIVVQAGQIQQQQGGVTAVQLQTEAQVASASGQQVQTLQVVQGGQPLMVQVSGGLI  
 TSTGQPI MVQAVPGGQGTIMQVPVSGTQGLQQIQLVPPGQIQIQGGQAVVQGGQGTQQII IQQPQTA  
 VTAGQTQTQQQIAVQGGQVAQTAEGQTI VYQPVNADGTILQQVTVPVSGMITIPAASLAGAQIVQTGANT  
 NTTSSGQGT VTVLTPVAGNVVNSGGMVMMVPGAGSVPAIQRIPLPGAEMLEEEPLVYNAKQYHRILKRRQ  
 ARAKLEAEGKIPKERRKYLHESRHRHAMARKRGEGRFFSPKEKDSPHMQDPNQADEEAMTQIIRVS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001110832

**ORF Size:** 1041 bp

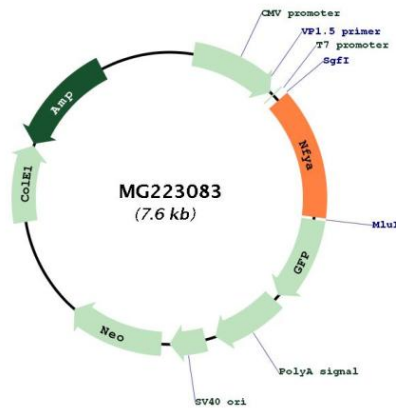
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\_001110832.1, NP\_001104302.1
- RefSeq Size:** 3728 bp
- RefSeq ORF:** 1044 bp
- Locus ID:** 18044
- Cytogenetics:** 17 23.99 cM
- Gene Summary:** Component of the sequence-specific heterotrimeric transcription factor (NF-Y) which specifically recognizes a 5'-CCAAT-3' box motif found in the promoters of its target genes. NF-Y can function as both an activator and a repressor, depending on its interacting cofactors. NF-YA positively regulates the transcription of the core clock component ARNTL/BMAL1. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG223083