

Product datasheet for **MG204581**

Nfya (NM_010913) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nfya (NM_010913) 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: >MG204581 representing NM_010913
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCAGTATACGACAAACAGCAATAGTTCCACAGAGCAGATCGTGGTGCAGGCCGGCCAGATTCAGC
 AGCAGGTCCAGGGGCGCCGTTAATGGTGAAGTCACTGGAGGCCAGCTTATTACATCAACAGGCCAACC
 CATCATGGTACAGGCTGTGCCTGGTGGACAAGGCCAAACCATCATGCAAGTACCTGTGTCTGGAACACAA
 GGTTTACAGCAGATACAGTTGGTGCCTCCTGGACAGATCCAGATTCAGGGTGGCAGGCTGTGCAGGTGC
 AAGGCCAGCAGGGTCAAACCCAGCAGATCATCCAACAGCCACAGACTGCAGTCACTGCTGGCCAGAC
 TCAGACACAACAACAGATTGCTGTCCAGGGACAGCAAGTGGCCAGACTGCTGAAGGACAGACTATTGTC
 TACCAACCAAGTTAATGCAGATGGCACAATTCTCCAGCAAGTTACAGTCCCTGTTTCAGGCATGATACCA
 TCCCAGCAGCCAGTTTGGCAGGGGCACAGATCGTTCAGACAGGAGCCAATACCAACAACAGCAGTGG
 ACAAGGGACGGTCACTGTGACACTGCCTGTGGCAGGGAATGTGGTCAACTCAGGAGGAATGGTCATGATG
 GTACCAGGAGCTGGCTCTGTGCCTGCTATCCAAGAATCCCTTACCTGGAGCAGAGATGCTGGAAGAAG
 AGCCCTGTATGTGAATGCCAAACAGTATCACCGCATCCTTAAGAGGAGACAAGCACGGGCTAAGCTAGA
 GGTAGAAGGAAAATCCCAAAGGAACGAAGGAAATACCTCCATGAGTCTCGGCATCGGCACGCCATGGCA
 CGGAAGCGTGGGAAGGGGCGCCTTCTTCTCCTCAAAGAAAAGCAGATCCTCACATGCAGGATCCAA
 ACCAAGCTGACGAAGAAGCCATGACACAGATCATCCGAGTTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204581 representing NM_010913
 Red=Cloning site Green=Tags(s)

MEQYTTNSNSSTEQIVVQAGQIQQVQGGQPLMVQVSGGQLITSTGQPIMVQAVPGGQGTIMQVPVSGTQ
 GLQQIQLVPPGQIQIQGGQAVQVQGGQGTQQIIIQQPQTAVTAGQTQTQQQIAVQGGQVAQTAEQTIV
 YQFPVNDGTILQQVTVPVSGMITIPAASLAGAQIVQTGANTNTSSGQGTVTVTLPVAGNVVNSGGMVM
 VPGAGSVP AIQR IPLPGAEMLEEEPLYVNAKQYHRILKRRQARAKLEVEGKIPKERRKYLHESRHRHAMA
 RKRGEGRFFSPKEKDSPHMQDPNQADEEAMTQIIIRVS

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2799_b12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_010913

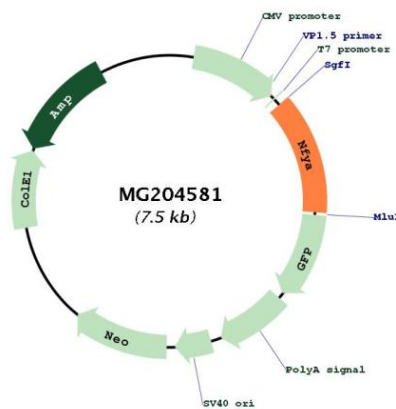
ORF Size: 954 bp

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 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:	<ol style="list-style-type: none">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_010913.1 , NP_035043.1
RefSeq Size:	3641 bp
RefSeq ORF:	957 bp
Locus ID:	18044
UniProt ID:	P23708
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 MG204581