

Product datasheet for MR202199

Nfyb (NM_010914) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nfyb (NM_010914) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nfyb
Synonyms: AA985999; Cbf-A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202199 representing NM_010914
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGACAATGGACGGCGACAGCTCCACCACAGATGCCTCCCAGCTAGGGATTTCTGCAGACTACATCGGAG
 GAAGTCATTATGTGATCCAGCCCCATGATGATACTGAGGACAGCATGAATGATCATGAAGATACAAATGG
 TTCAAAGAAAAGTTTCAGAGAACAAGATATTTATCTTCCAATTGCAAATGTGGCTAGGATAATGAAAAAT
 GCCATACCTCAACAGGAAAGATCGAAAAGATGCCAAAGAATGTGTTTCAGGAATGTGTGAGTGAATTTA
 TAAGCTTCATCACGTCGGAAGCAAGCGAAAGGTGTCATCAGGAGAAGCGGAAGACAATCAATGGGGAGGA
 TATTCTGTTTGCCATGTCCACTCTAGGCTTTGACAGCTACGTGGAGCCTCTGAAACTGTACCTTCAGAAG
 TTCAGAGAGGCCATGAAAGGAGAGAAGGGTATCGGGGGAGCAGTCTCCGCCACAGATGGACTAAGCGAAG
 AGCTCACGGAAGAGGCATTCACTAACCAGTTACCAGCTGGCTTAATAACTGCAGATGGTCAACAGCAAAA
 CGTTATGGTTTACACAACGTCTTACCAACAGATTTCTGGTGTCCAGCAAATTCAGTTTCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR202199 representing NM_010914
 Red=Cloning site Green=Tags(s)

MTMDGDSSTTDASQLGISADYIGGSYHYVIQPHDDTEDSMNDHEDTNGSKESFREQDIYLPINANVARIMKN
 AIPQTGKIAKDAKECVQECVSEFISFITSEASERCHQEKRKTINGEDILFAMSTLGFDSEYVPLKLYLQK
 FREAMKGEKGIGGAVSATDGLSEELTEEAFTNQLPAGLITADGQQQNVMYTTSYQQISGVQIQIFS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV


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Chromatograms: https://cdn.origene.com/chromatograms/mm9044_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010914

ORF Size: 621 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_010914.2](#), [NP_035044.1](#)

RefSeq Size: 2552 bp

RefSeq ORF: 624 bp

Locus ID: 18045

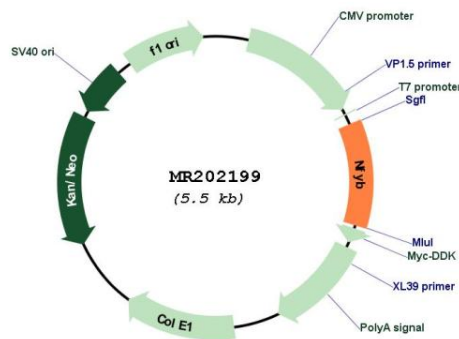
UniProt ID: [P63139](#)

Cytogenetics: 10 40.25 cM

MW: 23.2 kDa

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. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202199