

Product datasheet for **RG205981**

NFYA (NM_021705) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFYA (NM_021705) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NFYA
Synonyms:	CBF-A; CBF-B; HAP2; NF-YA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205981 representing NM_021705 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCAGTATACAGCAAACAGCAATAGTTCGACAGAGCAGATTGTTGTCCAGGCAGGACAGATTCAGC
AGCAGGTCCAAGGGCAGCCATTAATGGTGCAGGTCAGTGGAGGCCAGCTAATCACATCAACTGGCCAACC
CATCATGGTCCAGGCTGTCCCTGGTGGCAAGGTCAAACCATCATGCAAGTACCTGTTTCTGGAACACAG
GGTTTGCAGCAAATACAGTTGGTCCACCTGGACAGATCCAGATCCAGGGTGGACAGGCTGTGCAGGTGC
AGGGCCAGCAGGGCCAGACCCAGCAGATCATCATCCAGCAGCCCCAGACGGCTGTCAGTCTGGCCAGAC
TCAGACACAGCAGCAGATTGCTGTCCAGGGACAGCAAGTGGCACAGACTGCTGAAGGGCAGACCATCGTC
TATCAACCAGTTAATGCAGATGGCACCATTCTCCAGCAAGTTACAGTCCCTGTTTCAGGCATGATCACTA
TCCCAGCAGCCAGTTTGGCAGGAGCACAGATTGTTCAAACAGGAGCCAATACCAACAACCAGCAGTGG
GCAAGGGACTGTCACTGTGACACTACCAGTGGCAGGCAATGTGGTCAATTCAGGAGGGATGGTCATGATG
GTTCTGGGGCTGGCTCTGTGCCTGCTATCAAAGAATCCCTCTACCTGGAGCAGAGATGCTTGAAGAAG
AGCCTCTCTACGTGAATGCCAAACAATAACAACCGTATTCTTAAGAGGAGGCAAGCCCGAGCTAAACTAGA
GGCAGAAGGGAAAATCCAAAGGAGAGAAGGAAATACCTGCATGAGTCTCGGCACCGTCATGCCATGGCA
CGGAAGCGTGGTGAAGGTGGACGATTTTTCTCTCAAAGGAAAAGGATAGTCCCATATGCAGGATCCAA
ACCAAGCCGATGAAGAAGCAATGACACAGATCATCCGAGTGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205981 representing NM_021705
 Red=Cloning site Green=Tags(s)

```
MEQYTANSNSSTEQIVVQAGQIQQVQGGQPLMVQVSGGQLITSTGQPIMVQAVPGGQGTIMQVPVSGTQ
GLQQIQLVPPGQIQIQGGQAVQVQGGQGTQQIIIQQPQTAVTAGQTQTQQQIAVQGGQVAQTAEGQTIV
YQFPVNADGTILQQVTVPVSGMITIPAASLAGAQIVQTGANTNTTSSGQGTVTVTLPVAGNVVNSGGMVM
VPGAGSVP AIQR IPLPGAEMLEEEPLYVNAKQYNRILKRRQARAKLEAEGKIPKERRKYLHESRHRHAMA
RKRGEGRFFSPKEKDSPHMQDPNQADEEAMTQIIIRVS
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021705

ORF Size: 954 bp

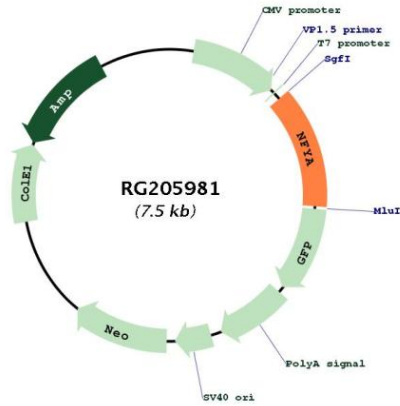
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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_021705.2 , NP_068351.1
RefSeq Size:	2747 bp
RefSeq ORF:	957 bp
Locus ID:	4800
UniProt ID:	P23511
Cytogenetics:	6p21.1
Domains:	CBF
Protein Families:	Transcription Factors
Protein Pathways:	Antigen processing and presentation
Gene Summary:	<p>The protein encoded by this gene is one subunit of a trimeric complex, forming a highly conserved transcription factor that binds to CCAAT motifs in the promoter regions in a variety of genes. Subunit A associates with a tight dimer composed of the B and C subunits, resulting in a trimer that binds to DNA with high specificity and affinity. The sequence specific interactions of the complex are made by the A subunit, suggesting a role as the regulatory subunit. In addition, there is evidence of post-transcriptional regulation in this gene product, either by protein degradation or control of translation. Further regulation is represented by alternative splicing in the glutamine-rich activation domain, with clear tissue-specific preferences for the two isoforms. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RG205981