

## Product datasheet for **RC205981**

### NFYA (NM\_021705) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NFYA (NM_021705) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NFYA
Synonyms:	CBF-A; CBF-B; HAP2; NF-YA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205981 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGGAGCAGTATACAGCAAACAGCAATAGTTCGACAGAGCAGATTGTTGTCCAGGCAGGACAGATTCAGC  
AGCAGGTCCAAGGGCAGCCATTAATGGTGCAGGTCACTGGAGGCCAGCTAATCACATCAACTGGCCAACC  
CATCATGGTCCAGGCTGTCCCTGGTGGCAAGGTCAAACCATCATGCAAGTACCTGTTTCTGGAACACAG  
GGTTTGCAGCAAATACAGTTGGTCCCACCTGGACAGATCCAGATCCAGGGTGGACAGGCTGTGCAGGTGC  
AGGGCCAGCAGGGCCAGACCCAGCAGATCATCATCCAGCAGCCCCAGACGGCTGTCACTGCTGGCCAGAC  
TCAGACACAGCAGCAGATTGCTGTCCAGGGACAGCAAGTGGCACAGACTGCTGAAGGGCAGACCATCGTC  
TATCAACCAGTTAATGCAGATGGCACCATTCTCCAGCAAGTTACAGTCCCTGTTTCAGGCATGATCACTA  
TCCCAGCAGCCAGTTTGGCAGGAGCACAGATTGTTCAAACAGGAGCCAATACCAACACAACCAGCAGTGG  
GCAAGGGACTGTCACTGTGACACTACCAAGTGGCAGGCAATGTGGTCAATTCAGGAGGGATGGTCATGATG  
GTTCTGGGGCTGGCTCTGTGCCTGCTATCCAAAGAATCCCTCTACCTGGAGCAGAGATGCTTGAAGAAG  
AGCCTCTCTACGTGAATGCCAAACAATAACCCGATTCTTAAGAGGAGGCAAGCCCGAGCTAACTAGA  
GGCAGAAGGGAAAATCCAAAGGAGAGAAGGAAATACCTGCATGAGTCTCGGCACCGTCATGCCATGGCA  
CGGAAGCGTGGTGAAGGTGGACGATTTTCTCTCCAAAGGAAAAGGATAGTCCCATATGCAGGATCCAA  
ACCAAGCCGATGAAGAAGCAATGACACAGATCATCCGAGTGTCC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC205981 protein sequence  
Red=Cloning site Green=Tags(s)

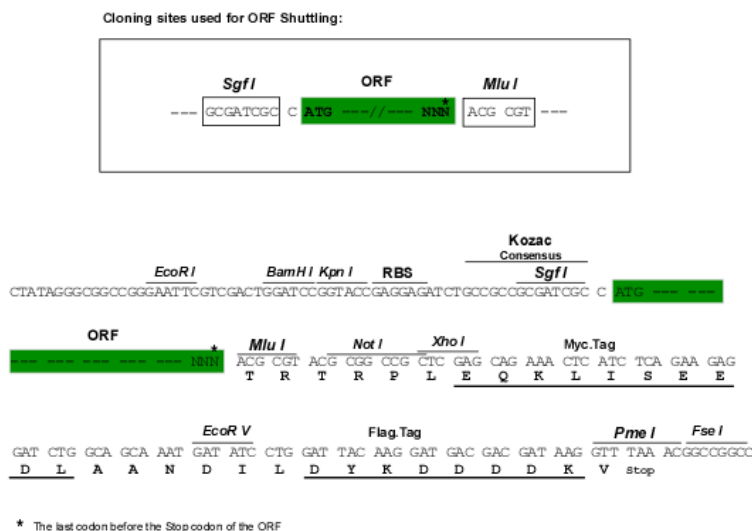
MEQYTANSNSSTEQIVVQAGQIQQQVQGGPLMVQVSGGQLITSTGQPIMVQAVPGGGQGTIMQVPVSGTQ  
GLQQIQLVPPGGQIQIQGGQAVQVQGGQGTQQIIIQPQTAVTAGQTQTQQQIAVQGGQVQAQTAEGQTIV  
YQPVNADGTLQQTVPVSGMITIPAASLAGAQIVQTGANTNTSSGGQGTVTVTLPVAGNVVNSGGMVM  
PVGAGSVPAIQRTPLPGAEMEEELPVYNAKQVNRILKRRQARAKLEAGKIPKERRKYLHESRHRHAMA  
RRKREGGRFISPEKDESPHMODPNOADEAMTOIIRVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6320\\_h10.zip](https://cdn.origene.com/chromatograms/mk6320_h10.zip)

Restriction Sites: Sgfl-MluI

### Cloning Scheme:



ACCN: NM 021705

ORF Size: 954 bp

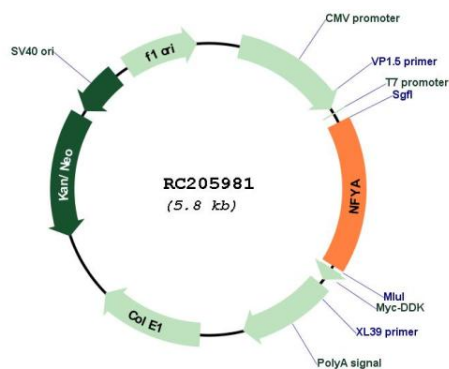
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

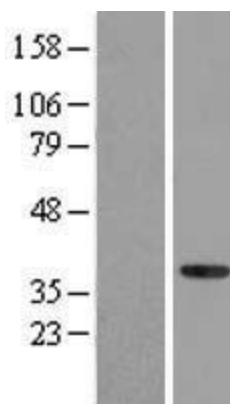
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_021705.4</u>
<b>RefSeq Size:</b>	6149 bp
<b>RefSeq ORF:</b>	957 bp
<b>Locus ID:</b>	4800
<b>UniProt ID:</b>	<u>P23511</u>
<b>Cytogenetics:</b>	6p21.1
<b>Domains:</b>	CBF
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Antigen processing and presentation
<b>MW:</b>	33.9 kDa
<b>Gene Summary:</b>	<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 RC205981



Western blot validation of overexpression lysate (Cat# [LY411938]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205981 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).