

## Product datasheet for **SC112917**

### NFYA (NM\_021705) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NFYA (NM_021705) Human Untagged Clone
Tag:	Tag Free
Symbol:	NFYA
Synonyms:	CBF-A; CBF-B; HAP2; NF-YA
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_021705, the custom clone sequence may differ by one or more nucleotides

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ATGGAGCAGTATACAGCAAACAGCAATAGTTCGACAGAGCAGATTGTTGTCCAGGCAGGACAGATTCAGC
AGCAGGTCCAAGGGCAGCCATTAATGGTGCAGGTCAGTGGAGGCCAGCTAATCACATCAACTGGCCAACC
CATCATGGTCCAGGCTGTCCCTGGTGGACAAGGTCAAACCATCATGCAAGTACCTGTTTCTGGAACACAG
GGTTTGCAGCAAATACAGTTGGTCCCACCTGGACAGATCCAGATCCAGGGTGGACAGGCTGTGCAGGTGC
AGGGCCAGCAGGGCCAGACCCAGCAGATCATCATCCAGCAGCCCCAGACGGCTGCTACTGCTGGCCAGAC
TCAGACACAGCAGCAGATTGCTGTCCAGGGACAGCAAGTGGCACAGACTGCTGAAGGGCAGACCATCGTC
TATCAACCAGTTAATGCAGATGGCACCATTCTCCAGCAAGTTACAGTCCCTGTTTCAGGCATGATCACTA
TCCCAGCAGCCAGTTTGGCAGGAGCACAGATTGTTCAAACAGGAGCCAATACCAACAACAGCAGTGG
GCAAGGGACTGTCACTGTGACACTACCAGTGGCAGGCAATGTGGTCAATTCAGGAGGGATGGTCATGATG
GTTCTCTGGGGCTGGCTCTGTGCCTGCTATCCAAAGAATCCCTCTACCTGGAGCAGAGATGCTTGAAGAAG
AGCCTCTCTACGTGAATGCCAAACAATACCACCGTATTCTTAAGAGGAGGCAAGCCCGAGCTAAACTAGA
GGCAGAAGGGAAAATTCCAAAGGAGAGAAGGAAATACCTGCATGAGTCTCGGCACCGTATGCCATGGCA
CGGAAGCGTGGTGAAGGTGGACGATTTTTCTCTCAAAGGAAAAGGATAGTCCCATATGCAGGATCCAA
ACCAAGCCGATGAAGAAGCAATGACACAGATCATCCGAGTGTCTTAA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_021705 unedited  
 NGGGTTTCANATTTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCTAGG  
 ATCTCCAGAGTGGACAGGAATCTCACTTGGAGGGACCATGGAGCAGTATACAGCAAAACAG  
 CAATAGTTCGACAGAGCAGATTGTTGTCCAGGCAGGACAGATTCCAGCAGCAGGTCCAAGG  
 GCAGCCATTAATGGTGCAGGTCACTGGAGGCCAGCTAATCACATCAACTGGCCAACCCAT  
 CATGGTCCAGGCTGTCCCTGGTGGACAAGGTCAAACCATCATGCAAGTACCTGTTTCTGG  
 AACACAGGGTTTTGCAGCAAATACAGTTGGTCCCACCTGGACAGATCCAGATCCAGGTGG  
 ACAGGCTGTGCAGGTGCAGGGCCAGCAGGGCCAGACCCAGCAGATCATCATCCAGCAGCC  
 CCAGACGGCTGTCACTGTGCTGGCCAGACTCAGACACAGCAGCAGATTGCTGTCCAGGGACA  
 GCAAGTGGCACAGACTGTGAAGGGCAGACCATCGTCTATCAACCAGTTAATGCAGATGG  
 CACCATTCTCCAGCAAGTTACAGTCCCTGTTTCAGGCATGATCACTATCCAGCAGCCAG  
 TTTGGCAGGAGCACAGATTGTTCANACAGGAGCCAATACCAACACAACCAGCAGTGGCA  
 AGGGACTGTCACTGTGACACTACCAGTGGCANGGCATGTGGTCAATTAGGAAGGATGGT  
 CATGATGGTTCCTGGGGCTGCCTCTGTGCCTGCTANCCAAAGATCCCTCTACTGGAGCAN  
 AGATGCTGAAGAAGACCTCTTACGTGAATGCCAACATACCACGTATTCTTAAGAGGAGCA  
 GCCCGAGCTAACTAGAGCAGAGGGGAAATTCAGGAGAGAAGAATACTGCTGAGTCTCGC  
 ACGTCTGCT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_021705 unedited  
 GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTATTNTATAAATTTAT  
 TTTAAAAAATAACAATTGCAATGACATTAATGATCGATCACCTGTACGCCCCATACTGC  
 TGGGGGAAAAACCTTCGATATAGTTGAATCCCAAAGAAAAATCAAGACATTATTATCAGG  
 CACCCTATAGCCACAAAATGCTCTGTTGGTCCAGTGGCATCGACACTGACATGTTCAATG  
 TACCAGTGCAGTTAAAATATATACACTTAAAATATCCTGCAAAAAAAAAAAAAAGCACT  
 CAAGTTGCATAACTAGGCATTAACCAATTATTCAATTCATCCATTCACTCTTTCTCCATC  
 TGTAAGTTATCACTACAGTCACAAAATAAAAATGAATAAAAGAACTAGTATCAAAGAAAA  
 AATCCAATGTCAATACCTGCCCCACTTTGTGGGCTACTATGGTGTGCCAAAGTGACC  
 ACAAGAAAAGGGTCATGAGCTATTTGAAATGCAATGACAAAATGACAAGTGAAGCATTTC  
 AAACAAAATTAAGTCATCTCCCCCAAATAAAAAATCAGCACCAAGGCTGGCATTAC  
 TATGTACNAACTTACAGACACAAATAATAGCATCTTTTTACTGTTGGCAGCTTAAGCACT  
 CAAGTTAGGTCTGAGGAATTTTTTTGACCTCTGCATCTAAACTCCAAATTACCCAAGGA  
 TATAATTCCCCCATGGTAGAAATCTATTTCTGAAAACCTGGGACTACTGAAAACATTAT  
 ATCCCAACTCTTGAAAAGTAGAGGTTCTTATGAGCTACAAAGGAAAGTCCTTGCATCTGG  
 AGCCAGACGATACCAGAACCGGACTAGAAAATTACCTCCCGTCCCTTGAAAACCGCCCTT  
 TTTTTAAATTAACAATTTTTTTGGGGTTTAAAGGCTAATTTTGCTAAACGGTACCGAGCA  
 AAAACATTTTTTGGGTTACCCAGTCCCAGAAAAGGTTTCCTT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_021705

**Insert Size:**

3570 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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>	<a href="#">NM_021705.2</a> , <a href="#">NP_068351.1</a>
<b>RefSeq Size:</b>	2747 bp
<b>RefSeq ORF:</b>	957 bp
<b>Locus ID:</b>	4800
<b>UniProt ID:</b>	<a href="#">P23511</a>
<b>Cytogenetics:</b>	6p21.1
<b>Domains:</b>	CBF
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Antigen processing and presentation
<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> <p>Transcript Variant: This variant (2) is missing alternate exon B, resulting in the short isoform, isoform 2.</p>