

## Product datasheet for **SC116285**

### **NFYB (NM\_006166) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NFYB (NM_006166) Human Untagged Clone
Tag:	Tag Free
Symbol:	NFYB
Synonyms:	CBF-A; CBF-B; HAP3; NF-YB
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:**

```
>OriGene sequence for NM_006166 edited
GAATTCGGCACGAGGCCGCGCGGAGGGAGGGAGGCCGAGTCCTGGAAGCGGAGCTCCG
CGCTGGGACTGGTTCTTCGCGAGCCATTTCTGTCCAACCAAACAGCCGATTGGAGACGG
GAGCCAACCAGGGCTGCATTGGAGGTTGAAATCACAAAGATTAGACACCTTTTTAGATAG
GTGTTCTTCAGCACCCTGACAACACGGTCTGACAGTATTTTCATGACAATGGATGGTGA
CAGTTCTACAACAGATGCTTCTCAACTAGGAATCTCTGCAGACTATATTGGAGGAAGTCA
TTATGTTATACAGCCTCATGATGATACTGAGGACAGCATGAATGATCATGAAGACACAAA
TGGTTCAAAGAAAGTTTCAGAGAACAAGATATATCTTCCAATAGCAAACGTGGCTAG
GATAATGAAAAATGCCATACCTCAAACGGGAAAGATTGCAAAAAGATGCCAAAAGATGTGT
TCAAGAATGTGTAAGTGAGTTCATCAGTTTTATAACATCTGAAGCAAGTAAAAGTGCCA
TCAAGAGAAACGGAAAACAATCAATGGAGAAGATATTCTCTTTGCTATGTCTACTTTAGG
CTTTGACAGTTATGTGGAACCTCTGAAATTATACCTTCAGAAATTCAGAGAGGCTATGAA
AGGAGAAAAGGGAATTGGTGGAGCAGTCACAGCTACAGATGGACTAAGTGAAGAGCTTAC
AGAGGAGGCATTTACTAACAGTTACCAGCTGGCTTAATAACCACAGACGGTCAACAACA
AAATGTTATGGTTTACACAACATCATATCAACAGATTTCTGGTGTTCAGCAAATTCAGTT
TTCATGATCTGAAGAAATGATGGAATGGGGAGTGTAGAGAAATGAGAGTCTGTATGATTC
TGAACAGAGACATCAGAAGGAAAGACTGGTAAAAGATGTATCTTTGTATATAATAGC
TGTAATGTAGCTTCTGTAGCTTACTAATTGAGGTGTTAATTCTGACTTGAGAACTTTT
TTCATGAATGATTTTAAAGAAAAATTTGGATTTTAAAGGTATTAATAATTTTTGTTTTG
TACGAGAGTTTGTGCTCTGTATGACTCCTGTATGCATTGTATATTGCAATTTTACTG
TCAGAGATTTGTAGACAGTTTCTTATTTTCATATTGAATCATGTTACTTTTGTAAATCAA
GTAAGCGGCTGGGTTAATTCATGATGTTTGCCTTTTAAATAAATAAAGGTTAGAGTTC
ATTTTGAATGCAAGTTGCCTTTTATAAATTTGAGTTTGTCTTGGTTATACCTTGCAATG
ATAACCTAGCTAGATTTCTAGCATTGCTGTATTTATAAAAATTTATTTTTTTGGTAA
AACATTAATAGTTTAAAGCAGCATCATTTTTTAAAAAATGAATTGAATAAGTGTGAATG
CAGAAGCAAAATATTGCTGCCCTGTTAAACTTGGTGGCCATTAACAGTGTTTACACTGTT
CATCGTGCCTGTTAATGTAGTTTGTAGTTACTGGAGCTTTTTTAAAGACTAGATTTGGTTTT
GAGTTACATTTTTAAGAATGTGGGAATATATTTAAGTTTAAATGTAGTCTAGTGTCTTG
AAATGGTGCCCTTTTCAATTTGGTACATGATTTTTTTTCAAATCATATCTTCAAGTACTAT
AGTATTCTTTACAGAAGAGGAGTTTTATAGXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XGTCCTTCAATTTACCTTTTTAATTGAAATGTCAAGTTTCTGTACACTATGGAAACCAA
GAAACATCAGACATCATTGCGTGTACAGACCTTTTGCATGGGTGAGTGGATGAAATGGAG
AACAGAGTGAGTGTGTAACGGTGTGAAATAGAAGCCAACCTTCTAGTATGCTGTCTTCA
TCTCTGCAATAAACTAAACGTAAATAATGTAACCTTTGTATAATTTAGTAGTATGACTTG
GATTGTTTCTTTTTGAAAAGTGAGGATTTGTATTTTCTCATCTATTCTTTTTGGTGTAA
TTAACTTGAGGGATTTCTTTTTTAAAGTTTTTAAATCAAAAATGCTATTGTATAGTTTG
CCTAAAAGGAAGTTGGAGTGAATATCATCTTTGAAGGACACTCAAATTTATAAGGTAGAA
GCAATTTCCAGATATAGGCTGAACAGAAACATTTACTTTGCCAGAAGGAGCCTTTAGGA
GTATATGTGGGCTAATCAGAGGTTAATAATGTCCTCATCTCCTACTCTCCATTTAAAAAA
CAAACCTTATTGTAGTAAATTCAAATAGGAAAAATGGGGGAGTGTAAAGCAAAATCAA
CAGTCATCCTACTATGTTGAAAGAACCAATGTTAATTTTTGATAAATATCATTGTCTCT
TTTACTTTGCTAAATATGTATATTTTTATAAAAATGGGCTCATATTGTGCATACCATTTT
GTAACCTGCTTTTTTCACTTAACAATATATTGGGAACATCTTTAAAAAAAAAAAAAAAAAA
AAAACTCGAC
```

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006166 unedited</p> <pre> AGGTCGAATTTGTATACGACTCCTATAGGCGGCNCGCGATTTCGGCACGAGGCCGCGGCGG AGGGAGGGGAGGCCGAGTCTGGAAGCGGAGCTCCGCGCTGGGACTGGTTCCTTCGCAGC CATTTTCTGTCCAACCAACAGCCGATTGGAGACGGGAGCCAACCAGGGCTGCATTGGAG GTTGAAATCACAAAGATTAGACACCTTTTTAGATAGGTGTTCTTCAGCACCCTGACAAC ACGGTTCGACAGTATTTTCATGACAATGGATGGTGACAGTCTACAACAGATGCTTCTCA ACTAGGAATCTCTGCAGACTATATTGGAGGAAGTCATTATGTTATACAGCCTCATGATGA TACTGAGGACAGCATGAATGATCATGAAGACACAATGGTTCAAAAAGAAAGTTTCAGAGA ACAAGATATATATCTTCCAATAGCAAACGTGGCTAGGATAATGAAAAATGCCATACCTCA AACGGGAAAGATTGCAAAAGATGCCAAAGAATGTGTTCAAGAATGTGTAAGTGAGTTCAT CAGTTTTATAACATCTGAAGCAAGTAAAGGTGCCATCAAGAGAAACGGAAAAACAATCAA TGGAGAAGATATTCTCTTTGCTATGTCTACTTTAGGCTTTGACAGTTATGTGGAACCTCT GAAATTACCTTCAGAAATTCAGAGAGGCTATGAAAGGAGAAAAGGGAATTGGGGGAGC AGTCACAGCTACAGATGGACTAAGTGAAGAGCTTACAGAGGAGGCATTTACTAACCAGTT ACCAGCTGGCTTAATAACACAGACGGTCACAACAAATGTTAATGGTTTACACAACATCA TATAACAGATTTTTNTGTTCCACANATTCAGTTTCATGATCTGAACAATGATGAAAGGG GGGAGTGT </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006166 unedited</p> <pre> ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTAAAAATGTTCCCAA TATATTGTTAAGTAAAAAAGCGGTTACAAAATGGTATGCACAATATGAGCCATTTTTTA TAAAAATATACATATTTAGCAAAGTAAAAGGACAAATGATATTTATCAAAATATTAACAT TGGTTCTTTCAACATAGTAGGATGACTGTTGATTTTGCTTAACTACTCCCCATTTTTTC CTATTTGAATTTACTACAATGAAGTTTGTTTTTTAAATGGAGAGTAGGAGATGAGGACAT TATTAACCTCTGATTAGCCACATATACTCCTAAAGGCTCCTTCTGGCAAAGTAAATGTT TCTGTTGAGCCTATATCTGGGAAATTGCTTCTACCTTATAAAATTTGAGTGTCTTCAAAG ATGATATTCACCTCAACTTCCTTTTAGGCAAATATACAATAGCAATTTTTGATATTTAA AACTTAAAAAAGAAATCCCTCAAGTTAATTAACACCAAAAAGAATAGATGAGAAAATACA AATCCTCACTTTTCAAAAAGAAACAATCCAAGTACATACTACTAAATTATACAAAGTTAC ATTATTTACGTTTAGTTTATTGCAGAGATGAAGACAGCATACTAGAAGTTGGCTTCTATT TCACACCGTTTACAGACTCACTCTGTTCTCCATTTTCATCCACTACCCATGCAAAAAGGT CTGTACACCCAATGATGCCTGATGGTTCTTGCGTTCCATAGCGCAACAAGAAAACTCGAC ATTTCAATTATAAAGGTAAATGAAGACCTTAACCATCANACTATTAACTGCTCTTNTG TAAGAGGATCCTATATTACTTGAATAATTAATTGAAAAAATCATGTCCCAAATGAAGG GGCCCTTTCAGAGCCTAGGACTACCTTAACTTAATTATT </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006166
<b>Insert Size:</b>	2850 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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_006166.3</a> , <a href="#">NP_006157.1</a>
<b>RefSeq Size:</b>	3482 bp
<b>RefSeq ORF:</b>	624 bp
<b>Locus ID:</b>	4801
<b>UniProt ID:</b>	<a href="#">P25208</a>
<b>Cytogenetics:</b>	12q23.3
<b>Domains:</b>	CBFD_NFYB_HMF
<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 with high specificity to CCAAT motifs in the promoter regions in a variety of genes. This gene product, subunit B, forms a tight dimer with the C subunit, a prerequisite for subunit A association. The resulting trimer binds to DNA with high specificity and affinity. Subunits B and C each contain a histone-like motif. Observation of the histone nature of these subunits is supported by two types of evidence; protein sequence alignments and experiments with mutants. [provided by RefSeq, Jul 2008]</p>