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Product datasheet for SC118595

NFYA (NM_002505) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NFYA (NM_002505) Human Untagged Clone
Tag:	Tag Free
Symbol:	NFYA
Synonyms:	CBF-A; CBF-B; HAP2; NF-YA
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC118595 sequence for NM_002505 edited (data generated by NextGen Sequencing)

ATGGAGCAGTATACAGCAAACAGCAATAGTTCGACAGAGCAGATTGTTGTCCAGGCAGGA
CAGATTCAGCAGCAGCAGCAGGGTGGTGTCACTGCTGTGCAGTTGCAGACTGAGGCCCAG
GTGGCATCCGCCTCAGGCCAGCAAGTCCAGACCCTCCAGGTAGTCCAAGGGCAGCCATTA
ATGGTGCAGGTCAGTGGAGGCCAGCTAATCACATCAACTGGCCAACCCATCATGGTCCAG
GCTGTCCCTGGTGGACAAGGTCAAACCATCATGCAAGTACCTGTTTCTGGAACACAGGGT
TTGCAGCAAATACAGTTGGTCCCACCTGGACAGATCCAGATCCAGGGTGGACAGGCTGTG
CAGGTGCAGGGCCAGCAGGGCCAGACCCAGCAGATCATCATCCAGCAGCCCCAGACGGCT
GTCACTGCTGGCCAGACTCAGACACAGCAGCAGATTGCTGTCCAGGGACAGCAAGTGGCA
CAGACTGCTGAAGGGCAGACCATCGTCTATCAACCAGTTAATGCAGATGGCACCATTCTC
CAGCAAGTTACAGTCCCTGTTTCAGGCATGATCACTATCCCAGCAGCCAGTTTGGCAGGA
GCACAGATTGTTCAAACAGGAGCCAATACCAACACAACCAGCAGTGGGCAAGGGACTGTC
ACTGTGACACTACCAGTGGCAGGCAATGTGGTCAATTCAGGAGGGATGGTCATGATGGTT
CCTGGGGCTGGCTCTGTGCCTGCTATCCAAAGAATCCCTCTACCTGGAGCAGAGATGCTT
GAAGAAGAGCCTCTCTACGTGAATGCCAAACAATACCACCGTATTCTTAAGAGGAGGCAA
GCCCGAGCTAAACTAGAGGCAGAAGGGAAAATTCCAAAGGAGAGAAGGAAATACCTGCAT
GAGTCTCGGCACCGTCATGCCATGGCACGGAAGCGTGGTGAAGGTGGACGATTTTTCTCT
CCAAAGGAAAAGGATAGTCCCCATATGCAGGATCCAAACCAAGCCGATGAAGAAGCAATG
ACACAGATCATCCGAGTGTCCTAA

Clone variation with respect to NM_002505.4

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002505 unedited
TGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCCTCGTGCCGAATTCG
GCACGAGGCGGCGGCAGCGGCGGCTGGAGCCTCTGATTGGGTTTCGGAGTCCGGTACTGG
AGCCAATCAGCGCGGGCAGCGAACCGGGGGAGCGAGGCACGGAGTGTACCTCACAGCCTT
CTAGGATCTCCAGAGTGGACAGGAATCTCACTTGGAGGGACCATGGAGCAGTATACAGCA
AACAGCAATAGTTCGACAGAGCAGATTGTTGTCCAGGCAGGACAGATTCAGCAGCAGCAG
CAGGGTGGTGTCACTGCTGTGCAGTTGCAGACTGAGGCCCAGGTGGCATCCGCCTCAGGC
CAGCAAGTCCAGACCCTCCAGGTAGTCCAAGGGCAGCCATTAATGGTGCAGGTCAGTGGA
GGCCAGCTAATCACATCAACTGGCCAACCCATCATGGTCCAGGCTGTCCCTGGTGGACAA
GGTCAAACCATCATGCAAGTACCTGTTTCTGGAACACAGGGTTTGCAGCAAATACAGTTG
GTCCCACCTGGACAGATCCAGATCCAGGGTGGACAGGCTGTGCAGGTGCAGGGCCAGCAG
GGCCAGACCCAGCAGATCATCATCCAGCAGCCCCAGACGGCTGTCACTGCTGGCCAGACT
CAGACACAGCAGCAGATTGCTGTCCAGGGACAGCAAGTGGCACAGACTGCTGAAGGGCAG
ACCATCGTCTATCAACCAGTTAATGCAGATGGCACCATTCTCCAGCAGTTACAGTCCCTG
GTTCAGGCATGATCACTATCCAGCAGCCAGTTTGGGCAGAGCCCAGATTGTNAAACAGGA
GCCATACCACACACCAGCAGTGGCAAGGGACTGTACTGTGCACTACAGTG

Restriction Sites: NotI-NotI

ACCN: NM_002505

Insert Size: 3800 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).

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.

RefSeq: NM_002505.3, NP_002496.1

RefSeq Size: 2834 bp

RefSeq ORF: 1044 bp

Locus ID: 4800

UniProt ID: P23511

Cytogenetics: 6p21.1

Domains: CBF

Protein Families: Transcription Factors

Protein Pathways: Antigen processing and presentation

Gene Summary: 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]
Transcript Variant: This variant (1) includes alternate exon B, resulting in the long isoform, isoform 1.