

Product datasheet for **SC127963**

CBF (CEBPZ) (NM_005760) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CBF (CEBPZ) (NM_005760) Human Untagged Clone
Tag:	Tag Free
Symbol:	CBF
Synonyms:	CBF; CBF2; HSP-CBF; NOC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127963 sequence for NM_005760 edited (data generated by NextGen Sequencing)

```

ATGGCCGAGTCAAGGAGCCTTTGGAGTCCATGCCAAGCGGCCTTGGCGCCCCGAGGAGGCAGTAGAAG
ATCCGGACGAGGAGGATGAGGATAATACTAGTGAAGCCGAGAATGGGTTCTCCCTGGAGGAAGTGTACG
GCTCGGAGGCACCAAGCAAGATTACCTTATGCTGGCTACTTTGGATGAGAATGAGGAAGTATAGATGGA
GGCAAAAAGGAGCAATCGATGACCTTCAGCAAGGTGAATTGGAAGCATTATTCAAATCTTAATTTGG
CGAAGTATACAAAAGCTTCTTAGTTGAAGAAGATGAACCAGCTGAAAAAGAAAATCCAGCAAAAAGA
AGTAAAAATACCTAAAAATAATAAAAAATACAGCAGAAAGTCAAAGGACATCAGTTAATAAGGTGAAA
AATAAGAATAGGCCAGAACCACATTCTGATGAGAATGGCAGTACCACACCAGAAAGTAAAGAAAGATAAC
AGAACATCTTTGAATTTTTGAGAGACAGACTTTGTTACTTAGGCCTGGAGGCAAATGGTATGATCTGGA
GTACAGCAATGAATATTCTTTGAAACCCAGCCTCAGGATGTTGTATCTAAGTACAAAACCTTGCTCAG
AAGCTGTATCAGCATGAAATCAACTTATCAAAGTAAGACGAATAGTCAAAGGGAGCCTCTTCTACCT
GGATGAAGGCAATTGTGTCATCGGGGACACTAGGTGACAGGATGGCAGCCATGATTTCTTATTACAGGA
TGATGCCGTTACACACTTCAGTTTGTAGAACTCTTGTGAACCTTGTAAAAAGAGGGCAGCAAAACAG
CAGTGCCTTATGGCCTTGATACTTTCAAAGAGTTGCTTATCACAGACCTTTGCCAGACAATCGGAAGC
TGAGGATTTTCAGCCAGCGTCCTTTTGACAACTGGAACAGTTGCCAGTGGCAACAAGGACTCAAGAGA
TAGAAGACTGATATTATGGTATTTTGAACACCAGCTGAAACACTTAGTGGCTGAATTTGTGCAGGTCTTA
GAAACTTTAAGTCATGATACATTAAGTAACCACTAAAACCTCGAGCCCTTACCGTGGCTCATGAGCTGCTT
GTAACAAGCCTGAGGAAGAAAAGGCTCTTCTTGTGCAAGTGGTAAATAAACTGGGAGATCCTCAGAACAG
AATTGCCACAAAAGCATCCCATCTGTTAGAGACATTACTTTGTAACATCCCAATATGAAAGGAGTTGTG
TCTGGTGAAGTAGAAAGGCTACTCTCCGCTCAAATATCAGCTCCAAAGCTCAATATTATGCAATTTGCT
TTTTAAATCAAATGGCTCTGTCCATGAAGAAAGTGAATTGGCTAACAAATTAATAACTGTTTACTTTTG
CTTTTTTCGACTTGTGTCAAAAAAAGATGTTGAATCAAAAATGCTTAGCGCCCTTTAACAGGTGTG
AATAGGCATACCCTTATCCCAGACTGGTATGACAAAGTAAGGGAGCAGATTGACACACTGTTTAAAG
TGTTGCATATTGTGAATTTAATACCAGTGTCCAGGCTTAATGTTGCTTTTCCAAGTAATGAATCTCA

```



[View online »](#)

GCAGACAATATCGGATCGATATTACACAGCATTATACAGGAAGATGTTGGATCCAGGGTTGATGACGTGT
 TCCAAGCAAGCTATGTTTCTTAACCTTGTCTACAAATCTCTGAAAGCTGACATTGTGTTGCGCCGGTGA
 AGGCTTTTGTGAAGAGGTTACTTCAAGTTACTTGTCAACAGATGCCACCATTTATATGTGGAGCTTTATA
 TCTTGTGTCTGAGATCCTTAAAGCAAACCAGGTTTAAAGAAGCCAACTAGATGATCATCCGGAGTCTGAT
 GATGAAGAAAATTTTATTGATGCAAATGATGATGAAGACATGGAAAAATCACTGATGCAGACAAAGAAA
 CAGAGATAGTAAAAAATTGAGACAGAGGAAACAGTTCCTGAACTGATGTAGAAACCAAAAAACCAGA
 GGTTGCTTCTCGGTGCACTTTGATAATTTGAAAGTGGGAAACAGTTAAATAAATACGATCCATTCAGT
 AGAAACCCTCTGTTCTGTGGAGCTGAAAAACAAGTCTTTGGGAACTCAAAAAGTTATCTGTGCATTTTC
 ATCCCTCCGTGGCCCTTTTTCGAAAAGACCATCCTTCAGGGAAACTATATTCAGTATTCAGGGGACCCACT
 GCAGGATTTCACTCTAATGAGATTTTTGGATCGATTTGTATACCGAAATCCAAAGCCCCATAAAGGCAAA
 GAAAACACAGATAGTGTGTGATGCAGCCGAAAAGAAAACATTTTATTAAGGATATTCGTCATCTTCCTG
 TGAACAGTAAGGAGTTCCTTGCAAAAGAAGAAAGCCAAATACCAGTGGATGAAGTGTTCACACAGGTA
 TTATAAAAAAGTTGCTGTTAAAGAGAAAACAAAACGGGATGCAGATGAAGAAAGTATAGAAGACGTGGAT
 GATGAAGAATTTGAAGAGCTGATTGACACATTTGAAGATGATAACTGTTTCAGCTCTGAAAGGATGATA
 TGGATTTTGTGAAACGTGAAAAGAGAACAAAAGGAGCTAAGGATAACACATTAGATGAAGATTCAGA
 AGGTAGTGATGATGAACCTGGTAACCTGGATGACGATGAAGTTTCTTTAGGAAAGTATGGATGATGAAGAA
 TTTGCTGAAGTTGATGAAGATGGAGGAACATTCATGGATGTGTTAGATGATGAAAGTGAGAGCGTCCAG
 AACTTGAAGTCCACTCCAAAGTCAGTACTAAGAAAAGCAAGAGAAAAGGTACAGATGATTTTGACTTTGC
 TGGCTCATTTCAAGGGCCAAGAAAAAGAAAAGAACTTAAATGATTCAGCCTATTTGTATCTGCTGAA
 GAGTTTGGCCATCTATTGGATGAAAATATGGGATCCAAGTTTGATAACATTGGCATGAATGCCATGGCTA
 ACAAAGATAATGCAAGTCTCAAACAGCTTAGATGGGAGGCTGAACGTGATGACTGGCTACACAACAGAGA
 TGCAAAAAGTATCATCAAGAAAAAGAAACATTTTAAAAAGAAGAGGATTAACCCTCAAAAACTAAA
 AAACAAAGGAAATGA

Clone variation with respect to NM_005760.2

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_005760 unedited
 GATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCATGGCCGCG
 TCAAGGAGCCTTTGGAGTCCATGCCAAGCGCCTTGGCGCCCGAGGAGGCAGTAGAAG
 ATCCGGACGAGGAGGATGAGGATAATACTAGTGAAGCCGAGAATGGGTTCTCCCTGGAGG
 AAGTGTTACGGCTCGGAGGCACCAAGCAAGATTACCTTATGCTGGCTACTTTGGATGAGA
 ATGAGGAAGTGATAGATGGAGGCAAAAAAGGAGCAATCGATGACCTTCAGCAAGGTGAAT
 TGGAAGCATTATTCAAATCTTAATTTGGCGAAGTATACAAAAGCTTCCTTAGTTGAAG
 AAGATGAACCAGCTGAAAAAGAAAATTCAGCAAAAAAGAAAGTAAAAATACCTAAAATAA
 ATAATAAAAAACAGCAGAAAGTCAAAGGACATCAGTTAATAAGGTGAAAAATAAGAATA
 GGCCAGAACCACATTCTGATGAGAATGGCAGTACCACACCGAAAGTAAAGAAAGATAAAC
 AGAACATCTTTGAATTTTTGAGAGACAGACTTTGTTACTTAGGCCTGGAGGCAAATGGT
 ATGATCTGGAGTACAGCAATGAATATTCTTTGAAACCCAGCCTCAGGATGTTGTATCTA
 AGTACAAAACCTTGCTCAGAAGCTGTATCAGCATGAAATCAACTTATTCAAAAGTAAGA
 CGAATAGTCAAAAAGGAGCCTTCTACCTGGATGAAGGGCATTGTGTCATCGGNGACAC
 TAGGTGACAGGATGGCAGCCATGATTCTTCTTATTACAGGATGATGCCGTTACACCCCTTC
 AGTTTGTAGAACTCTTGTGAACCCTTGTTAAAAGAAGGG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005760 unedited GNGAGCACTGGGCGNAGGGGTCACAGGNATGCCACCCGGGATCTGTTTCAGGAAACAGCT ATGACCGCGGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGATG TAAGTAGAATTTAATCTATAATTTACATTAATAACTCATTTCCTTTGTTTTTTAGTTTT TTGAGTTTTTTAATCCTCTTCTTTTTAAAATGTTTCTTTTTCTTGATGATACTTTTTGC ATCTCTGTTGTAGCCAGTCATCAGTTCAGCCTCCCATCTAAGCTGTTTGAGACTTGC ATTATCTTTGTTAGCCATGGCATTTCATGCCAATGTTATCAAACCTGGATCCCATATTTTC ATCCAATAGATGGCCAAACTCTTCAGCAGATACAAATAGGCTGGAATCATTTAAGTTTCT TTTCTTTTTTCTTGCCCTTGAAATGAGCCAGCAAAGTCAAATCATCTGTACCTTTTCT CTTGCTTTTCTTACTACTGACTTTGGAGTGGACTTCAAGTTCTGGAACGCTCTCACTTTC ATCCTCTAACACATTCATGAATGGTCCCCATCTTGACCAACTTATCAAATTCTCTCTC ATCCATACTTCTACAGAATATCCCCGTCTTTATGCCCCCTTCTTTTTTTTCGCTAC CCTTGCCCATCTGTTCTCCCGGCCCCACTCCTACCCCCCGTTTCTTTTTTGGCCT GTCCCTTTGCCCCCCCCTCCTTTTTTCCCCGGCATCCTGCCCGCCCTCTACTGCC GTCTCTTTCTGCTTCTGTTTCCCGCCCGCCCGTTTCTCCCCCCCCGCTCTGTGN
Restriction Sites:	NotI-NotI
ACCN:	NM_005760
Insert Size:	2850 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:	<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_005760.2 , NP_005751.2
RefSeq Size:	3341 bp
RefSeq ORF:	3165 bp
Locus ID:	10153
UniProt ID:	Q03701
Cytogenetics:	2p22.2
Domains:	CBF
Protein Families:	Stem cell - Pluripotency, Transcription Factors

Gene Summary:

This gene belongs to the CBF/Mak21 family. The encoded protein plays a role in cellular response to environmental stimuli through a transcriptional process that involves heat shock factors, conserved DNA elements (heat shock elements or HSEs) and CCAAT boxes. The protein acts as a DNA-binding transcriptional activator and regulates the heat-shock protein 70 (HSP70) promoter in a CCAAT-dependent manner. The protein is also involved in cell growth and differentiation, particularly, hematopoietic differentiation. [provided by RefSeq, Nov 2020]