

Supplementary Table S1. Sequence of primers used for constructing pGEX-4T-2-hCTCF-ZF expression vector.

Name	Sequence (from 5' to 3')
pGEX-4T-2-hCTCF-ZF-F	5'-CCGCTCGAGCGGTGTAAAGAAGACATTCCAGTG-3'
pGEX-4T-2-hCTCF-ZF-R	5'-ACGCGTCTGACTCAGCCATCTGGGCCAGCACAATTATC-3'

Supplementary Table S2. Sequence of probes used for EMSA experiments.

Name	Sequence (from 5' to 3')
M1-F	5'-CTTTTTGGTGCCCTCTGCTGGCCAGTTTAG-3'
M1-R	5'-CTAAACTGGCCAGCAGAGGGCACCAAAAAG-3'
M2-F	5'-CTTTTGGAAGTGCAGTTTAG-3'
M2-R	5'-CTAAACTGCAGTTCCAAAAG-3'
M1-Mut1-F	5'-CTTTTGTGGCCCTCTGCTGGCCAGTTTAG-3'
M1-Mut1-R	5'-CTAAACTGGCCAGCAGAGGGCAAACAAAAG-3'
M1-Mut2-F	5'-CTTTTGGGAACCTCTGCTGGCCAGTTTAG-3'
M1-Mut2-R	5'-CTAAACTGGCCAGCAGAGGTTCCCAAAAAG-3'
M1-Mut3-F	5'-CTTTTGGTGCAAAGTCTGCTGGCCAGTTTAG-3'
M1-Mut3-R	5'-CTAAACTGGCCAGCAGTTTGCACCAAAAAG-3'
M1-Mut4-F	5'-CTTTTGGTGCCCTCGTATGGCCAGTTTAG-3'
M1-Mut4-R	5'-CTAAACTGGCCATACGAGGGCACCAAAAAG-3'
M1-Mut5-F	5'-CTTTTGGTGCCCTCTGCGTTCCAGTTTAG-3'
M1-Mut5-R	5'-CTAAACTGGAACGCAGAGGGCACCAAAAAG-3'
M1-Mut6-F	5'-CTTTTGGTGCCCTCTGCTGGAACGTTTAG-3'
M1-Mut6-R	5'-CTAAACGTTCCAGCAGAGGGCACCAAAAAG-3'
M1-Mut7-F	5'-CTTTTGGTGCCCAAGGCTGGCCAGTTTAG-3'
M1-Mut7-R	5'-CTAAACTGGCCAGCCTTGGGCACCAAAAAG-3'
M1-Mut8-F	5'-CTTTTGGGTGCCCTCTGCTGGCCAGTTTAG-3'
M1-Mut8-R	5'-CTAAACTGGCCAGCAGAGGGCACCAAAAAG-3'
M1-Mut9-F	5'-CTTTTTTGTGCCCTCTGCTGGCCAGTTTAG-3'

M1-Mut9-R	5'-CTAAACTGGCCAGCAGAGGGCACAAAAAAG-3'
M1-Mut10-F	5'-CTTTTTGTTGCCCTCTGCTGGCCAGTTTAG-3'
M1-Mut10-R	5'-CTAAACTGGCCAGCAGAGGGCAACAAAAAAG-3'
M1-Mut11-F	5'-CTTTTTGTGTGCCCTCTGCTGGCCAGTTTAG-3'
M1-Mut11-R	5'-CTAAACTGGCCAGCAGAGGGCACACAAAAAAG-3'
M1-Mut12-F	5'-CTTTTTTTTTGCCCTCTGCTGGCCAGTTTAG-3'
M1-Mut12-R	5'-CTAAACTGGCCAGCAGAGGGCAAAAAAAG-3'
M1-Mut13-F	5'-CTTTTTGTGGCCCTCTGCTGGCCAGTTTAG-3'
M1-Mut13-R	5'-CTAAACTGGCCAGCAGAGGGCCACAAAAAAG-3'
M2-Mut1-F	5'-CTTTTGGACCTGCAGTTTAG-3
M2-Mut1-R	5'-CTAAACTGCAGGTCCAAAAG-3
M2-Mut2-F	5'-CTTTTGGAACGGCAGTTTAG-3
M2-Mut2-R	5'-CTAAACTGCCGTTCCAAAAG-3
M2-Mut3-F	5'-CTTTTGGAACTGAAGTTTAG-3
M2-Mut3-R	5'-CTAAACTTCAGTTCCAAAAG-3

Supplementary Table S3. Sequence of oligos used for constructing pFlag-CMV-4 vector.

Name	Sequence (from 5' to 3')
M1-F	5'-AATTCTTTTGGTGCCCTCTGCTGGCCAGTTTAG-3'
M1-R	5'-CTAGCTAAACTGGCCAGCAGAGGGCACCAAAAAAG-3'
M2-F	5'-AATTCTTTTGGAACCTGCAGTTTAG-3'
M2-R	5'-CTAGCTAAACTGCAGTTCCAAAAG-3'
M1-Mut1-F	5'-AATTCTTTTGTTTGCCCTCTGCTGGCCAGTTTAG-3'
M1-Mut1-R	5'-CTAGCTAAACTGGCCAGCAGAGGGCAACAAAAAAG-3'
M2-Mut1-F	5'-AATTCTTTTGGACCTGCAGTTTAG-3
M2-Mut1-R	5'-CTAGCTAAACTGCAGGTCCAAAAG-3
M2-Mut2-F	5'-AATTCTTTTGGAACGGCAGTTTAG-3
M2-Mut2-R	5'-CTAGCTAAACTGCCGTTCCAAAAG-3

M2-Mut3-F	5'-AATTCTTTTGGAACTGAAGTTTAG-3
M2-Mut3-R	5'-CTAGCTAAACTTCAGTTCCAAAAG-3

Supplementary Table S4. Sequence of primers used for ChIP-qPCR.

Name	Sequence (from 5' to 3')
pFlag-negative-F	5'-GAGTGTGTCTTCCCGTTTTCCG-3'
pFlag-negative-R	5'-CCTATGGAAAAACGCCAGCAAC-3'
pFlag-positive-F	5'-ATGGACTACAAAGACGATGACG-3'
pFlag-positive-R	5'-ACTGGGGAGGGGTCACAGGGAT-3'