

## Product datasheet for **SC213937**

### CTCF (NM\_006565) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	CTCF (NM_006565) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	CTCF
Synonyms:	CFAP108; FAP108; MRD21
ACCN:	NM_006565
Insert Size:	1342 bp



[View online »](#)

**Insert Sequence:** >SC213937 3' UTR clone of NM\_006565  
The sequence shown below is from the reference sequence of NM\_006565. The complete sequence of this clone may contain minor differences, such as SNPs. **Red**=Cloning site  
**Blue**=Stop Codon

CAATTGGCAGAGCTCAGAATTCAA**GCGATCGC**

CCGAGATGATCCTCAGCATGATGGACCG**TGA**TGGCGGAGCCTTGTGCGTCGCCAGGACTTCTCTGGGCT  
GTGTTTAAACGGCCGCATCTTAATTTTTCTCCCTTCTTTCTTTTTTGGCTTTGGGAAAAGCATCATT  
TACCAACATACCGAGAACGAAAACCTCAAGGATGATGTTAGAAAAAATGTGATTTAACTAGAACTTGC  
TGTCTGATGTTAGCAAATCATGGAATGTTCTGAGTCCCTGAGGGTTTACTGTGAAGTGCTGAGGACAGTG  
TTGACAACAACTCGTTTTCTAGATGGAAACGGAGACATTGACCCCTCCCTCCATGTGGTAAACCCTC  
CAGAATGGCCACCAGGCTTCCCAGAGTCTATGGTCTTCTTCCAAGAGAGTTTTTAATGTAAATGCAT  
ACTTGGGAAGGACTTAGAGTTTTAACTGTTTTTGTCTTTTCCCTGACTCCCTTTGCTTGGAGT  
CAGCTGCACACAGTAGTATGGCATGCTACGATCAGGTTCTGTCTGAAAGCTTTGCCTCTTTCTGGCA  
AAGTTTCTGGTATGGTCAAGCTTGTAAATAACTTTTTTACATTTAATCTTTTCCATTAAATTAAGAGGT  
TGAAAAGAAGTGCAAGTGAAGAAAACCCAGCATTTAATTACTTGCAAATTAAGTTACCACAGACTCTGT  
AGTGTGTAATGTTGACAAGGAATTGGATCACAATCATGTAGCAGAATGGCACCCAGACCACTGCCACC  
AGTGACGGACATGCACGTGGCAGATCATGATTTCCAGCCCACGGAGCCAGCATTGAACCTTGTATAATT  
AACTTTTCAGTTATGATTTCCCATCGACATTTTCTTTGCCCTGTTGTAGCTGATTGTTGTGTTTTATAAA  
TCTTCTGTTAAGGCAGAAGGGTGATTATGAGTGGTTCACAGCAGCCCTTATAAGCTGGCCAGAAAATTT  
CACTAGGTCAGTAATTTAAACCTTGGATCTTCAAAAAAATAAATAATGTGAAGCAAACCAACTAAAAAG  
TGATTCTGCACATGAAGTGCACATGTTTAAAAATGTGTTTTTATAGAGAGCCTCAGTCTTACTGATTTT  
AAACACTTTTTTCTTCTGTGATTGCTTTTAAAGAGAGCCATCAGTTAGCTATCAGACTCTAGGTTGATGC  
ATTTTGTACTTAGCTGTACTGTGTGATTTTTTATTATTTTAGGACGCCAACATGAGACCTGTAATAAA  
ATATGTAATGGGGTTGAAAGCTGGGGAGGAGGATCTACTGCTGTACAGCTAATAAATCATAACGGATTAA  
CAAGTGCTCAA

**ACGCGT**AAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCG

**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_006565.2](#)

**Summary:**

This gene is a member of the BORIS + CTCF gene family and encodes a transcriptional regulator protein with 11 highly conserved zinc finger (ZF) domains. This nuclear protein is able to use different combinations of the ZF domains to bind different DNA target sequences and proteins. Depending upon the context of the site, the protein can bind a histone acetyltransferase (HAT)-containing complex and function as a transcriptional activator or bind a histone deacetylase (HDAC)-containing complex and function as a transcriptional repressor. If the protein is bound to a transcriptional insulator element, it can block communication between enhancers and upstream promoters, thereby regulating imprinted expression. Mutations in this gene have been associated with invasive breast cancers, prostate cancers, and Wilms' tumors. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]

**Locus ID:**

10664