

## Product datasheet for **SC330803**

### **BORIS (CTCFL) (NM\_001269050) Human Untagged Clone**

#### Product data:

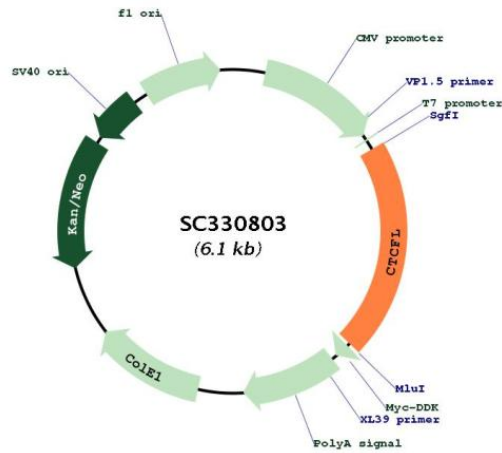
**Product Type:** Expression Plasmids  
**Product Name:** BORIS (CTCFL) (NM\_001269050) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** CTCFL  
**Synonyms:** BORIS; CT27; CTCF-T; dj579F20.2; HMGB1L1  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330803 representing NM\_001269050.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGTCAGGAGATGAAAGAAGTGACGAAATTGTTCTCACAGTTTCAAATTCAAATGTGGAAGAACAAGAG
GATCAACCTACAGCTGGTCAAGCAGATGCTGAAAAGGCCAAATCTACAAAAATCAAAGAAAGACAAAG
GGAGCAAAGGAACCTTCCACTGTGATGTCTGCATGTTCCACCTCTTCTAGAATGTCAAGTTTTAATCGT
CATATGAAAACCTCACACCAGTGAGAAGCCTCACCTGTGCACCTCTGCCTGAAAACCTTCCGTACGGTC
ACTCTGCTGCGGAACCATGTTAACACCCACACAGGAACCAGGCCCTACAAGTGTAAACGACTGCAACATG
GCATTTGTCACCAGTGGAGAAGCTCGTCCGACACAGGCGCTATAAACATACTCATGAGAAAACCTTTAAA
TGTTCATGTGCAAGTATGCCAGTGTGGAGGCAAGTAAATTGAAGCGCCATGTCCGATCCCACACTGGG
GAGCGCCCTTTTCAAGTGTGCCAGTGCAGCTATGCCAGCAGAGATACCTACAAGCTGAAACGCCACATG
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ATGAAAATACATATTCTGCAGAAACACGGCGAAAATGTCCCAAAATACCAGTGTCCCATTTGTGCCACC
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CTTCTAAACGCTCACTTACAGAAATACCACGATGCAAATTTTCATCCCGACTGTTTACAAATGCTCCAAG
TGTGGCAAAGGCTTTTCCGCTGGATTCTGCGTTGGGAACTCGGAAGTGGCTGAACTGGTGGTCTCT
GGCTCAGGGCCACTCCTGAGGCTGCAGTCCAGGATGTCCGCCAGGGCTGCATCATCCGAAGGCTGGACTG
GGGCCAGAGGATCCACTTCCAGGACAGCTCCGCCACAACTGCTGGCACCAGGCTCAGTTCCTTGTCTA
CAGGGACCTCTCTGCAGGGCTGCTTGA
```

**Restriction Sites:** SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001269050

**Insert Size:** 1269 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\\_001269050.1](#)

**RefSeq Size:** 2302 bp

**RefSeq ORF:** 1269 bp

**Locus ID:** 140690

UniProt ID: [Q8NI51](#)

Cytogenetics: 20q13.31

Protein Families: Transcription Factors

MW: 48.1 kDa

**Gene Summary:** CCCTC-binding factor (CTCF), an 11-zinc-finger factor involved in gene regulation, utilizes different zinc fingers to bind varying DNA target sites. CTCF forms methylation-sensitive insulators that regulate X-chromosome inactivation. This gene is a paralog of CTCF and appears to be expressed primarily in the cytoplasm of spermatocytes, unlike CTCF which is expressed primarily in the nucleus of somatic cells. CTCF and the protein encoded by this gene are normally expressed in a mutually exclusive pattern that correlates with resetting of methylation marks during male germ cell differentiation. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2012]

Transcript Variant: This variant (12, also known as B4) differs in the 5' and 3' UTRs and has multiple coding region differences, compared to variant 1. The translation initiation is at a downstream in-frame AUG and the resulting isoform (10, also known as B4) has a shorter N-terminus and a shorter and distinct C-terminus, compared to isoform 1.