

## Product datasheet for **SC332898**

### **BORIS (CTCFL) (NM\_001269044) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BORIS (CTCFL) (NM_001269044) Human Untagged Clone
Tag:	Tag Free
Symbol:	BORIS
Synonyms:	BORIS; CT27; CTCF-T; dj579F20.2; HMGB1L1
Vector:	pCMV6-Entry (PS100001)



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**Fully Sequenced ORF:** >SC332898 representing NM\_001269044.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGGCAGCCACTGAGATCTCTGTCTTTCTGAGCAATTCACCAAGATCAAAGAACTCGAGTTGATGCCG
GAAAAAGGCCCTGAAGGAGGAGGAAAAAGACGGAGTGTGCAGAGAGAAAGACCATCGGAGCCCTAGTGAG
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GCCCCCTCGGAGGAGAGCGAGAAGTACATCCTGACCCCTGCAGACGGTGCACCTTCACTTCTGAAGCTGTG
GAGTTGCAGGATATGAGCTTGTCTGAGCATACAGCAGCAAGAAGGGGTGCAGGTGGTGGTGAACAGCCT
GGCCCTGGGTTGCTGTGGCTTGAGGAAGGGCCCGGCAGAGCCTGCAGCAGTGTGTGCCATTAGTATC
CAGCAAGAGCTGTACTCCCCGAAGAGATGGAGGTGTTGCAGTTCACGCTCTAGAGGAGAATGTGATG
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AACGCTCACTTACAGAAATACCACGATGCAAAATTCATCCGACTGTTTACAAATGCTCCAAGTGTGGC
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GCTGCTTACAGAAAGGGAAGAAGAACAAGAAAGAGGAAGCAGACCATCTGAAGGAAGCCACAAAGGGT
CAGAAGGAAGCTGCGAAGGGATGGAAGGAAGCCGCAACGGAGACGGTGTGATCTCAGCTCACCGCAAC
CTCTGCCTCCTGGTTCAAGTATTCTCATGCCTCAGTCTCCGGAGCTGGGATTACAGATGCCCGCCAC
CAGCCTGGCTAATTGTTCTATTATTTTTAGTAGAGATGGGGTTTTACCATGTCTCTCACTCCTGA
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001269044

**Insert Size:** 1998 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\\_001269044.1](#)

**RefSeq Size:** 3393 bp

**RefSeq ORF:** 1998 bp

**Locus ID:** 140690

**UniProt ID:** [Q8NI51](#)

**Cytogenetics:** 20q13.31

**Protein Families:** Transcription Factors

**MW:** 75.8 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 (6, also known C3) differs in the 5' and 3' UTRs and the 3' coding region, compared to variant 1. The resulting isoform (4) has a longer and distinct C-terminus, compared to isoform 1.