

## Product datasheet for **RC234667**

### **BORIS (CTCFL) (NM\_001269042) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BORIS (CTCFL) (NM_001269042) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BORIS
Synonyms:	BORIS; CT27; CTCF-T; dj579F20.2; HMGB1L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC234667 representing NM\_001269042  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCAGCCACTGAGATCTCTGTCTTTCTGAGCAATTCACCAAGATCAAAGAACTCGAGTTGATGCCGG  
AAAAAGGCCTGAAGGAGGAGGAAAAAGACGGAGTGTGCAGAGAGAAAGACCATCGGAGCCCTAGTGAGTT  
GGAGGCCGAGCGTACCTCTGGGGCCTTCCAGGACAGCGTCTGGAGGAAGAAGTGGAGCTGGTGCTGGCC  
CCCTCGGAGGAGAGCGAGAAGTACATCCTGACCCTGCAGACGGTGCACCTTCACTTCTGAAGCTGTGGAGT  
TGCAGGATATGAGCTTGCTGAGCATACAGCAGCAAGAAGGGTGCAGGTGGTGGTCAACAGCCTGGCCC  
TGGGTTGCTGTGGCTTGAAGGAAGGGCCCCGCGAGAGCCTGCAGCAGTGTGTGGCCATTAGTATCCAGCAA  
GAGCTGTACTCCCGCAAGAGATGGAGGTGTGCAGTTCACGCTCTAGAGGAGAATGTGATGGTGGCCA  
GTGAAGACAGTAAGTTAGCGGTGAGCCTGGCTGAAACTACTGGACTGATCAAGCTCGAGGAAGAGCAGGA  
GAAGAACCAGTTATTGGCTGAAAGAACAAGGAGCAGCTCTTTTTTGTGGAACAATGTCAGGAGATGAA  
AGAAGTGACGAAATTGTTCTCACAGTTTCAAATTCAAATGTGGAAGAACAAGAGGATCAACCTACAGCTG  
GTCAAGCAGATGTGAAAAGGCCAAATCTCAAAAAATCAAAGAAAGACAAGGGGAGCAAAAGGAACCTT  
CCACTGTGATGTCTGCATGTTACCTCTTCTAGAATGTCAAGTTTAAATCGTCATATGAAAACCTCACACC  
AGTGAGAAGCCTCACCTGTGCACCTCTGCCTGAAAACCTTCCGTACGGTCACTCTGCTGCGGAACCATG  
TTAACACCCACACAGGAACCAAGGCCCTACAAGTGTAACTGCAACATGGCATTGTCACCAGTGGAGA  
ACTCGTCCGACACAGGCGCTATAAACAATACTCATGAGAAACCTTTAAATGTTCCATGTGCAAGTATGCC  
AGTGTGGAGGCAAGTAAATTGAAGCGCCATGTCCGATCCCACACTGGGGAGCGCCCTTTTCAGTGTGGCC  
AGTGCAGCTATGCCAGCAGAGATACCTACAAGCTGAAACGCCACATGAGAACGCACTCAGGTGAGAAGCC  
TTACGAATGCCACATCTGCCACACCCGCTTCAACCAGAGCGGGACCATGAAAATACATATTCTGCAGAAA  
CACGGCGAAAATGTCCCAAAATACCAGTGTCCCAATTGTGCCACCATCATTGCACGAAAAGCGACCTAC  
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CCATGAACGCTATGCCCTCATTACAGCACCAGAAAACCTATAAGAATGAGAAGAGGTTCAAGTCAAAACAC  
TGCAGTTATGCCTGCAAGCAGGAACGTATATGACCGCTCACATTCGTACCCACACTGGAGAGAAACCAT  
TCACCTGCCTTTCTTGAATAAATGTTTCCGACAGAAGCAACTTCTAAACGCTCACTTCAGGAAATACCA  
CGATGCAAAATTCATCCCGACTGTTTACAATGCTCCAAGTGTGGCAAAGGCTTTTCCCGCTGGATTAAC  
CTGCACAGACATTCGGAGAAGTGTGGATCAGGGGAAGCAAAGTCCGCTGCTTTCAGGAAAGGGAAGAAGAA  
CAAGAAAGAGGAAGCAGACCATCCTGAAGGAAGCCACAAAGGGTCAAGAGGAAGCTGCGAAGGGATGGAA  
GGAAGCCGCAACGGAGACGCTGCTGCTGAGGAGGCTTCCACCAGAAAGGAGAAACAGTTCCAGGAGAG  
ATGTTTCTGTCGCTGCAGAGAAAACACAGCCAGAGTCAAAGAGGAAGTGGATGAAGGCGTGACCTGTG  
AAATGCTCCTCAACAGTGGATAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234667 representing NM\_001269042  
Red=Cloning site Green=Tags(s)

MAATEISVLSQFTKIKELELMPEKGLKEEEKDGVCREKDHRSPSELEAERTSGAFQDSVLEEEVELVLA  
 PSEESEKYILTLQTVHFTSEAVELQDMSLLSIQQQEGVQVVVQQPGPGLLWLEEGPRQSLQQCVAI SIQQ  
 ELYSPQEMEVLFHAELEENVVASEDSKLAVSLAETTGLIKLEEEQEKNQLLAERTKEQLFFVETMSGDE  
 RSDEIVLTVSNSNVEEQEDQPTAGQADAERAKAKSTKNQRKTKGAKGTFHCDVCMFTSSRMSSFNRHMKTHT  
 SEKPHLCHLCLKTFRTVTLRLNHVNTHTGTRPYKCNDCNMAFVTSGELVRHRRYKHTHEKPFKCSMCKYA  
 SVEASKLKRHVRSHTGERPFQCCQCSYASRDYTKLKRHMRTSAGEKPYECHICHTRFTQSGTMKIHLQK  
 HGENVPKYQCPHCATIIARKSDLRVHMRNLHAYSAAELKCRYCSAVFHRYALIQHQKTHKNEKRFKCKH  
 CSYACKQERHMTAHIRTHTGKPFCTLSCNKCFRQKQLLNAHFRKYHDANFIPTVYKCSKCGKGFSRWIN  
 LHRHSEKCGSGEAKSAASGKRRTRKRKQITLKEATKGQKEAAKGWKEAANGDAAEEASTTKGEQFPGE  
 MFPVACRETTARVKEEVDEGVTCEMLLNTMDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001269042

**ORF Size:** 1986 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001269042.1](#), [NP\\_001255971.1](#)

**RefSeq Size:** 3598 bp

**RefSeq ORF:** 1989 bp

**Locus ID:** 140690

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

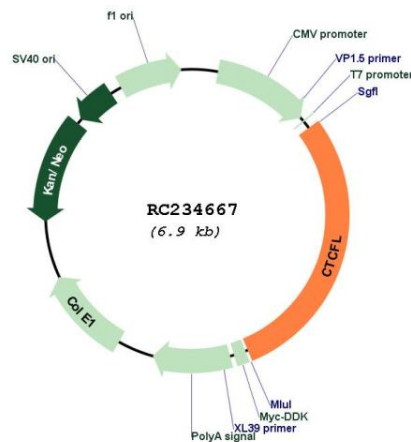
**Cytogenetics:** 20q13.31

**Protein Families:** Transcription Factors

**MW:** 76.1 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]

### Product images:



Circular map for RC234667