

## Product datasheet for **RG234667**

### **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:                      | TurboGFP  |
| Symbol:                   | BORIS   |
| Synonyms:                 | BORIS; CT27; CTCF-T; dj579F20.2; HMGB1L1            |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                             |
| E. coli Selection:        | Ampicillin (100 ug/mL)                              |



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ORF Nucleotide  
Sequence:

>RG234667 representing NM\_001269042  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCAGCCACTGAGATCTCTGTCTTTCTGAGCAATTCACCAAGATCAAAGAACTCGAGTTGATGCCGG  
AAAAAGGCCTGAAGGAGGAGGAAAAAGACGGAGTGTGCAGAGAGAAAGACCATCGGAGCCCTAGTGAGTT  
GGAGGCCGAGCGTACCTCTGGGGCCTTCCAGGACAGCGTCTGGAGGAAGAAGTGGAGCTGGTGCTGGCC  
CCCTCGGAGGAGAGCGAGAAGTACATCCTGACCCTGCAGACGGTGCACCTTCACTTCTGAAGCTGTGGAGT  
TGCAGGATATGAGCTTGCTGAGCATACAGCAGCAAGAAGGGTGCAGGTGGTGGTCAACAGCCTGGCCC  
TGGGTTGCTGTGGCTTGAAGGAAGGGCCCCGCGAGGCCTGCAGCAGTGTGTGGCCATTAGTATCCAGCAA  
GAGCTGTACTCCCGCAAGAGATGGAGGTGTGCAGTTCACGCTCTAGAGGAGAATGTGATGGTGGCCA  
GTGAAGACAGTAAGTTAGCGGTGAGCCTGGCTGAAACTACTGGACTGATCAAGCTCGAGGAAGAGCAGGA  
GAAGAACCAGTTATTGGCTGAAAGAACAAGGAGCAGCTCTTTTTTGTGGAACAATGTCAGGAGATGAA  
AGAAGTGACGAAATTGTTCTCACAGTTTCAAATTCAAATGTGGAAGAACAAGAGGATCAACCTACAGCTG  
GTCAAGCAGATGTGAAAAGGCCAAATCTCAAAAAATCAAAGAAAGACAAGGGGAGCAAAAGGAACCTT  
CCACTGTGATGTCTGCATGTTACCTCTTCTAGAATGTCAAGTTTAAATCGTCATATGAAAACCTCACACC  
AGTGAGAAGCCTCACCTGTGCACCTCTGCCTGAAAACCTTCCGTACGGTCACTCTGCTGCGGAACCATG  
TTAACACCCACACAGGAACCGGCCCTACAAGTGTAACTGCAACATGGCATTGTCACCAGTGGAGA  
ACTCGTCCGACACAGGCGCTATAAACAATACTCATGAGAAACCCTTTAAATGTTCCATGTGCAAGTATGCC  
AGTGTGGAGGCAAGTAAATTGAAGCGCCATGTCGATCCCACACTGGGGAGCGCCCTTTTCAGTGTGGCC  
AGTGCAGCTATGCCAGCAGAGATACCTACAAGCTGAAACGCCACATGAGAACGCACTCAGGTGAGAAGCC  
TTACGAATGCCACATCTGCCACACCCGCTTCAACCAGAGCGGGACCATGAAAATACATATTCTGCAGAAA  
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CCATGAACGCTATGCCCTCATTACAGCACCAGAAAACCTATAAGAATGAGAAGAGGTTCAAGTGCAAAAC  
TGCAGTTATGCCTGCAAGCAGGAACGTATGACCGCTCACATTCGTACCCACACTGGAGAGAAACCAT  
TCACCTGCCTTTCTTGAATAAATGTTTCCGACAGAAGCAACTTCTAAACGCTCACTTCAGGAAATACCA  
CGATGCAAAATTCATCCCGACTGTTTACAATGCTCCAAGTGTGGCAAAGGCTTTTCCCGCTGGATTAAC  
CTGCACAGACATTCGGAGAAGTGTGGATCAGGGGAAGCAAAGTCCGCTGCTTCAGGAAAGGGAAGAAGAA  
CAAGAAAGAGGAAGCAGACCATCCTGAAGGAAGCCACAAAGGGTCAAGAGGAAGCTGCGAAGGGATGGAA  
GGAAGCCGCAACGGAGACGCTGCTGCTGAGGAGGCTTCCACCAGAAAGGAGAAACAGTTCCAGGAGAG  
ATGTTTCTGTCGCTGCAGAGAAAACACAGCCAGAGTCAAAGAGGAAGTGGATGAAGCGGTGACCTGTG  
AAATGCTCCTCAACAGATGGATAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG234667 representing NM\_001269042  
 Red=Cloning site Green=Tags(s)

```

MAATEISVLSQFTKIKELELMPEKGLKEEEKDGVCREKDHRSPSELEAERTSGAFQDSVLEEEVELVLA
PSEESEKYILTLQTVHFTSEAVELQDMSLLSIQQQEGVQVVVQQPGPGLLWLEEGPRQSLQQCVAI SIQQ
ELYSPQEMEVLQFHAELEENVVASEDSKLAVSLAETTGLIKLEEEQEKNQLLAERTKEQLFFVETMSGDE
RSDEIVLTVSNSNVEEQEDQPTAGQADAEKAKSTKNQRKTKGAKGTFHCDVCMFTSSRMSSFNRHMKTHT
SEKPHLCHLCLKTFRTVTLRLNHVNTHTGTRPYKCNDCNMAFVTSGELVRHRRYKHTHEKPFKCSMCKYA
SVEASKLKRHVRSHGTGERPFQCCQCSYASRDYTKLKRHMRTSNGEKPYECHICHTRFTQSGTMKIHLQK
HGENVPKYQCPHCATIIARKSDLRVHMRNLHAYSAAELKCRYCSAVFHRYALIQHQKTHKNEKRFKCKH
CSYACKQERHMTAHIRTHTGKPFCTLSCNKCFRQKQLLNAHFRKYHDANFIPTVYKCSKCGKGF SRWIN
LHRHSEKCGSGEAKSAASGKRRTRKRKQTI LKEATKGQKEAAKGWKEAANGDAAEEASTTKGEQFPGE
MFPVACRETTARVKEEVDEGVTCEMLLNTMDK
  
```

TRTRPLE - GFP Tag - V

**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

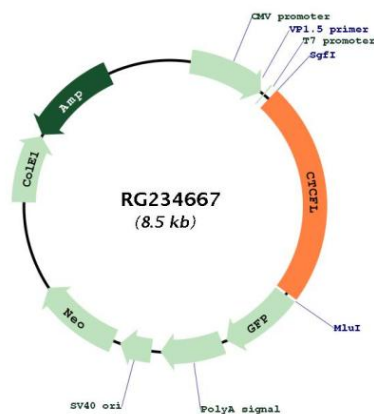
**UniProt ID:** [Q8NI51](#)

**Cytogenetics:** 20q13.31

**Protein Families:** Transcription Factors

**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 RG234667