

Product datasheet for **RG234740**

BORIS (CTCFL) (NM_001269043) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BORIS (CTCFL) (NM_001269043) 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)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG234740 representing NM_001269043
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCCACTGAGATCTCTGTCTTTCTGAGCAATTCACCAAGATCAAAGAACTCGAGTTGATGCCGG
 AAAAAGGCCTGAAGGAGGAGGAAAAAGACGGAGTGTGCAGAGAGAAAGACCATCGGAGCCCTAGTGAGTT
 GGAGGCCGAGCGTACCTCTGGGGCCTTCCAGGACAGCGTCTGGAGGAAGAAGTGGAGCTGGTGCTGGCC
 CCCTCGGAGGAGAGCGAGAAGTACATCCTGACCCTGCAGACGGTGCACCTTCACTTCTGAAGCTGTGGAGT
 TGCAGGATATGAGCTTGCTGAGCATACAGCAGCAAGAAGGGTGCAGGTGGTGGTCAACAGCCTGGCCC
 TGGGTTGCTGTGGCTTGAGGAAGGGCCCCGCGAGGCCTGCAGCAGTGTGTGGCCATTAGTATCCAGCAA
 GAGCTGTACTCCCGCAAGAGATGGAGGTGTGCAGTTCACGCTCTAGAGGAGAATGTGATGGTGGCCA
 GTGAAGACAGTAAGTTAGCGGTGAGCCTGGCTGAAACTACTGGACTGATCAAGCTCGAGGAAGAGCAGGA
 GAAGAACCAGTTATTGGCTGAAAGAACAAGGAGCAGCTCTTTTTTGTGGAACAATGTCAGGAGATGAA
 AGAAGTGACGAAATTGTTCTCACAGTTTCAAATCAAATGTGGAAGAACAAGAGGATCAACCTACAGCTG
 GTCAAGCAGATGCTGAAAAGGCCAAATCTACAAAAATCAAAGAAAGACAAGGGGAGCAAAAGGAACCTT
 CCACTGTGATGTCTGCATGTTACCTCTTCTAGAATGTCAAGTTTAAATCGTCATATGAAAACCTCACACC
 AGTGAGAAGCCTCACCTGTGCACCTCTGCCTGAAAACCTTCCGTACGGTCACTCTGCTGCGGAACCATG
 TTAACACCCACACAGGAACCGCCCTACAAGTGTAACTGCAACATGGCATTGTCACCAGTGGAGA
 ACTCGTCCGACACAGGCGCTATAAACAATCTCATGAGAAACCTTTAAATGTTCCATGTGCAAGTATGCC
 AGTGTGGAGGCAAGTAAATTGAAGCGCCATGTCGATCCCACACTGGGGAGCGCCCTTTTCAGTGTGGCC
 AGTGCAGCTATGCCAGCAGAGATACCTACAAGCTGAAACGCCACATGAGAACGCACCTCAGGTGAGAAGCC
 TTACGAATGCCACATCTGCCACACCCGCTTCAACCAGAGCGGGACCATGAAAATACATATTCTGCAGAAA
 CACGGCGAAAATGTCCCAAAATACCAGTGTCCCAATTGTGCCACCATCATTGCACGAAAAGCGACCTAC
 GTGTGCATATGCGCAACTTGCATGCTTACAGCGCTGCAGAGCTGAAATGCCGCTACTGTTCTGCTGCTT
 CCATGAACGCTATGCCCTCATTACAGCACCAGAAAACCTATAAGAATGAGAAGAGGTTCAAGTGCAAAAC
 TGCAGTTATGCCTGCAAGCAGGAACGTATGACCGCTCACATTCGTACCCACACTGGAGAGAAACCAT
 TCACCTGCCTTTCTTGAATAAATGTTCCGACAGAAGCAACTTCTAAACGCTCACTTCAGGAAATACCA
 CGATGCAAAATTCATCCCGACTGTTTACAATGCTCCAAGTGTGGCAAAGGCTTTTCCCGCTGGATTAAC
 CTGCACAGACATTCGGAGAAGTGTGGATCAGGGGAAGCAAAGTCCGCTGCTTCAGGAAAGGGAAGAAGAA
 CAAGAAAGAGGAAGCAGACCATCCTGAAGGAAGCCACAAAGGGTCAAGGGAAGCTGCGAAGGGATGGAA
 GGAAGCCGCAACGGAGACGAAGCTGCTGCTGAGGAGGCTTCCACCACGAAGGGAGAACAGTTCACAGGA
 GAGATGTTTCTGCTGCCTGCAGAGAAACCACAGCCAGAGTCAAAGAGGAAGTGGATGAAGGCGTGACCT
 GTGAAATGCTCCTCAACACGATGGATAATCCGCAGGCTGTACAGGAAGGATGATGTTGGTATCTGCCTG
 GCTTCTGGGGAGGCTCAGGAACTTACAATCAAGGCAGAAGGCGAAGAGGGAGTAGGCGCGTCACATGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234740 representing NM_001269043
 Red=Cloning site Green=Tags(s)

MAATEISVLSEQFTKIKELELMPEKGLKEEEKDGVCREKDHRSPSELEAERTSGAFQDSVLEEEVELVLA
 PSEESEKYILTLQTVHFTSEAVELQDMSLLSIQQQEGVQVVVQQPGPGLLWLEEGPRQSLQQCVAISIQQ
 ELYSPQEMEVLQFHALEENVMVASEDSKLAVSLAETTGLIKLEEEQEKNQLLAERTKEQLFFVETMSGDE
 RSDEIVLTVSNSNVEEQEDQPTAGQADAEKAKSTKNQRKTKGAKGTFHCDVCMFTSSRMSSFNRHMKTHT
 SEKPHLCHLCLKTFRTVTLRLNHVNTHTGTRPYKCNDCNMAFVTSGELVRHRRYKHTHEKPFKCSMCKYA
 SVEASKLKRHVRSHGTGERPFQCCQCSYASRDYTKLKRHMRTSNGEKPYECHICHTRFTQSGTMKIHLQK
 HGENVPKYQCPHCATIIARKSDLRVHMRNLHAYSAAELKCRYCSAVFHRYALIQHQKTHKNEKRFKCKH
 CSYACKQERHMTAHIRTHTGKPFCTLSCNKCFRQKQLLNAHFRKYHDANFIPTVYKCSKCGKGFSRWIN
 LHRHSEKCGSGEAKSAASGKGRTRKRKQTI LKEATKGQKEAAKGWKEAANGDEAAAAEASTTKGEQFPG
 EMFPVACRETTARVKEEVDEGVTCEMLLNTMDNSAGCTGRMMLVSAWLLGRPQETYNQRRRRRSRRVTW

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001269043

ORF Size: 2100 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_001269043.1](#), [NP_001255972.1](#)

RefSeq Size: 2499 bp

RefSeq ORF: 2103 bp

Locus ID: 140690

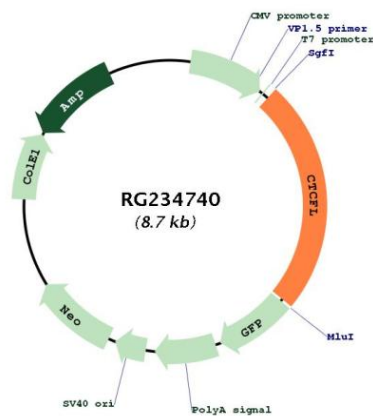
UniProt ID: [Q8NI51](#)

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 RG234740