

Product datasheet for **RC234163**

BORIS (CTCFL) (NM_001269049) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BORIS (CTCFL) (NM_001269049) 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:

>RC234163 representing NM_001269049
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAGGAGATGAAAGAAGTGACGAAATTGTTCTCACAGTTTCAAATTCAAATGTGGAAGAACAAGAGG
 ATCAACCTACAGCTGGTCAAGCAGATGCTGAAAAGGCCAAATCTACAAAAATCAAAGAAAGACAAAGGG
 AGCAAAAGGAACCTTCCACTGTGATGTCTGCATGTTACCTCTTCTAGAATGTCAAGTTTAAATCGTCAT
 ATGAAAACCTCACACCAGTGAGAAGCCTCACCTGTGTACCTCTGCCTGAAAACCTTCCGTACGGTCACTC
 TGCTGCGGAACCATGTTAACCCACACAGGAACCAGGCCCTACAAGTGTAACTGCAACATGGCATT
 TGTACCAGTGGAGAAGCTCGCCGACACAGGCGCTATAAACATACTCATGAGAAACCTTTAAATGTTCC
 ATGTGCAAGTATGCCAGTGTGGAGGCAAGTAAATTGAAGCGCCATGTCCGATCCACACTGGGGAGCGCC
 CCTTTCAGTGTGCCAGTGCAGCTATGCCAGCAGAGATACCTACAAGCTGAAACGCCACATGAGAAGCGA
 CTCAGGTGAGAAGCCTTACGAATGCCACATCTGCCACACCCGCTTACCCAGAGCGGGACCATGAAAATA
 CATATTCTGCAGAAACACGGCGAAAATGTCCCAAATACCAAGTGTCCCATTTGTGCCACCATCATTGCAC
 GGAAAAGCGACCTACGTGTGCATATGCGCAACTTGATGCTTACAGCGCTGCAGAGCTGAAATGCCGCTA
 CTGTTCTGCTGCTTCCATGAACGCTATGCCCTCATTGACACCAGAAAACCTATAAGAATGAGAAGAGG
 TTCAAGTGCAAACTGCAGTTATGCCTGCAAGCAGGAACGTCATATGACCGCTCACATTCGTACCCACA
 CTGGAGAGAAACCATTCACCTGCCTTCTTGAATAAATGTTCCGACAGAAGCAACTTCTAAACGCTCA
 CTTCAGGAAATACCACGATGCAATTTCCGACTGTTTACAATGCTCCAAGTGTGGCAAAGGCTTT
 TCCCGCTGGATTAACCTGCACAGACATTCGAGAAGTGTGGATCAGGGGAAGCAAAGTCCGCTGCTTCA
 GAAAGGGAAGAACAAGAAAGAGGAAGCAGACCATCCTGAAGGAAGCCACAAGGGTCAAGAAGGAAGC
 TGCGAAGGGATGGAAGGAAGCCGCGAAGCAGGAGCGGTGTGATCTCAGCTCACCGCAACCTCTGCCTCTG
 GTTCAAGTGATTCTCATGCCTCAGTCTCCGGAGCTGGGATTACAGATGCCCGCCACCACGCTGGCTAA
 TTGTTCTATTATTTTAGTAGAGATGGGTTTTACCATGTCTCTCACTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234163 representing NM_001269049
 Red=Cloning site Green=Tags(s)

MSGDERSDEIVLTVSNSNVEEQEDQPTAGQADAERKAKSTKNQRKTKGAKGTFHCDVCMFTSSRMSSFNRH
 MKTHTSEKPHLCHLCLKTFRTVTLRNHVNTHTGTRPYKCNDNCNMAFVTSSELVRHRRYKHTHEKPFKCS
 MCKYASVEASKLKRHVRSHTGERPFQCCQCSYASRDYKLRHMRTHSGEKPYECHICHTRFTQSGTMKI
 HILQKHGENVPKYQCPHCATIIARKSDLRVHMRNLHAYSAAELKCRYCSAVFHERYALIQHKTHKNEKR
 FKCKHCSYACKQERHMTAHIRHTHTGKPFPTCLSCNKCFRQQLLNAHFRKYHDANFIPTVYKCSKCGKGF
 SRWINLHRHSEKCGSGEAKSAASGKRRTRKRKQITLKEATKGQKEAAKWKEAANGDGVISAHRNLCLL
 GSSDSHASVSGAITDARHHAWLIVLLFLVEMGFYHVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001269049

ORF Size: 1380 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_001269049.1](#), [NP_001255978.1](#)
RefSeq Size: 2288 bp

RefSeq ORF: 1383 bp

Locus ID: 140690

UniProt ID: [Q8NI51](#)

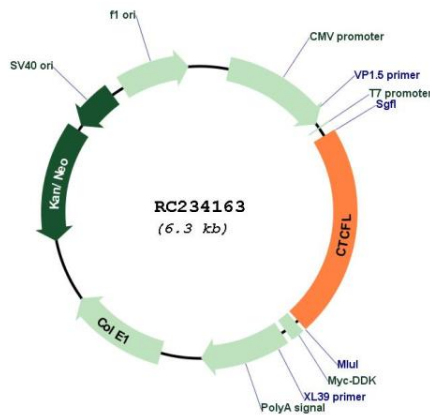
Cytogenetics: 20q13.31

Protein Families: Transcription Factors

MW: 53.1 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 RC234163