

Product datasheet for **SC311151**

BORIS (CTCFL) (NM_080618) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BORIS (CTCFL) (NM_080618) Human Untagged Clone
Tag:	Tag Free
Symbol:	BORIS
Synonyms:	BORIS; CT27; CTCF-T; dj579F20.2; HMGB1L1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_080618 edited
 ATGGCAGCCACTGAGATCTCTGTCTTTCTGAGCAATTCACCAAGATCAAAGAACTCGAG
 TTGATGCCGAAAAAGGCTGAAGGAGGAGAAAAAGACGGAGTGTGCAGAGAGAAAAGAC
 CATCGGAGCCCTAGTGAGTTGGAGGCCGAGCGTACCTCTGGGGCCTTCCAGGACAGCGTC
 CTGGAGGAAGAAGTGGAGCTGGTGTGGCCCCCTCGGAGGAGAGCGAGAAGTACATCCTG
 ACCCTGCAGACGGTGCACCTTCACTTCTGAAGCTGTGGAGTTGCAGGATATGAGCTTGCTG
 AGCATAACAGCAGCAAGAAGGGGTGCAGGTGGTGGTGAACAGCCTGGCCCTGGGTTGCTG
 TGGCTTGAGGAAGGGCCCGGCAGAGCCTGCAGCAGTGTGTGGCCATTAGTATCCAGCAA
 GAGCTGTACTCCCGCAAGAGATGGAGGTGTGAGTTCCACGCTCTAGAGGAGAATGTG
 ATGGTGGCCAGTGAAGACAGTAAGTTAGCGGTGAGCCTGGCTGAAACTGCTGGACTGATC
 AAGCTCGAGGAAGAGCAGGAGAAGAACCAGTTATTGGCTGAAAGAACAAGGAGCAGCTC
 TTTTTGTGGAACAATGTCAGGAGATGAAAGAAGTACGAAATTGTTCTCACAGTTTCA
 AATTCAAATGTGGAAGAACAAGAGGATCAACCTACAGCTGGTCAAGCAGATGCTGAAAAG
 GCCAAATCTAAAAAATCAAAGAAAGCAAAGGGAGCAAAGGAACCTTCCACTGTGAT
 GTCTGCATGTTACCTCTTCTAGAATGTCAAGTTTTAATCGTCATATGAAAACCTCACACC
 AGTGAGAAAGCCTCACCTGTGTCACCTCTGCCTGAAAACCTTCCGTACGGTCACTCTGCTG
 CGGAACCATGTTAACACCCACACAGGAACCAAGGCTTACAAGTGTAACTGCAACATG
 GCATTTGTACCAGTGGAGAAGCTCGTCCGACACAGGCGCTATAAACATACTCATGAGAAA
 CCCTTTAAATGTTCCATGTGCAAGTATGCCAGTGTGGAGGCAAGTAAATTGAAGCGCCAT
 GTCCGATCCCACACTGGGGAGCGCCCTTTCAGTGTGGCCAGTGCAGCTATGCCAGCAGA
 GATACCTACAAGTGAACGCCACATGAGAAGCAGTCAAGTGAAGGCCTTACGAATGC
 CACATCTGCCACACCCGCTTACCCAGAGCGGGACCATGAAAATACATATTCTGCAGAAA
 CACGGCGAAAAATGTCCCAAAATACCAGTGTCCCAATTGTGCCACCATATTGCACGGAAA
 AGCGACCTACGTGTGCATATGCGCAACTTGCATGCTTACAGCGCTGCAGAGCTGAAATGC
 CGCTACTGTTCTGCTGTCTTCCATGAACGCTATGCCCTCATTACAGCACCAGAAAACCTCAT
 AAGAATGAGAAGAGGTTCAAGTGCAAACTGCAGTTATGCCTGCAAGCAGGAACGTCAT
 ATGACCGCTCACATTCGTACCCACACTGGAGAGAAACCTTACCTGCCTTTCTTGAAT
 AAATGTTTCCGACAGAAGCAACTTCTAAACGCTCACTTCAAGAAATACCACGATGCAAAAT
 TTCATCCCGACTGTTTACAAATGCTCCAAGTGTGGCAAAGGCTTTTCCCGCTGGATTAAC
 CTGCACAGACATTCGGAGAAGTGTGGATCAGGGGAAGCAAAGTCCGCTGCTTCAAGAAAG
 GGAAGAAGAACAAGAAAGAGGAAGCAGACCATCCTGAAGGAAGCCACAAAGGGTCAAG
 GAAGCTGCGAAGGGATGGAAGGAAGCCGGAACGAGACGAAGCTGCTGCTGAGGAGGCT
 TCCACCAGAAAGGAGAAACAGTTCCAGGAGAGATGTTTCTGTCGCTGCAGAGAAACC
 ACAGCCAGAGTCAAAGAGGAAGTGGATGAAGGCGTGACCTGTGAAATGCTCCTCAACACG
 ATGGATAAGTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_080618 unedited
 NNGAGGTCAATATTGTATACCACTCATATAGGCGGCCGCAATCTAGAGTCGAGCCGCGG
 CGGCCGGCTGTGGCTGCAGCACGCGGTGCACGAGGCAGAGCCACAAGCCAAAGACGGA
 GTGGGCCGAGCATTCCGGCCACGCTTCCGCGGCCAAGTATTATGGCAGCCACTGAGAT
 CTCTGTCTTTCTGAGCAATTCACCAAGATCAAAGAAGTCAAGTTGATGCCGAAAAAGG
 CCTGAAGGAGGAGAAAAAGACGGAGTGTGCAGAGAGAAAGACCATCGGAGCCCTAGTGA
 GTTGGAGGCCGAGCGTACCTCTGGGGCCTTCCAGGACAGCGTCTGGAGGAAGAAGTGA
 GCTGGTGTGGCCCCCTCGGAGGAGAGCGAGAAGTACATCCTGACCTGCAGACGGTGA
 CTTCACTTCTGAAGCTGTGGAGTTGCAGGATATGAGCTTGTGAGCATAACAGCAGCAAGA
 AGGGGTGCAGGTGGTGGTGAACAGCCTGGCCCTGGGTTGCTGTGGCTTGAAGAAAGGCC
 CCGGCAGAGCCTGCAGCAGTGTGTGGCCATTAGTATCCAGCAAGAGCTGTACTCCCGCA
 AGAGATGGAGGTGTGAGTTCCACGCTCTAGAGGAGAATGTGATGGTGGCCAGTGAAGA
 CAGTAAGTTAGCGGTGAGCCTGGCTGAAACTGCTGGACTGATCAAGCTCGAGGAAGAGCA
 NGAGAAGAACCAGTTATTGGCTGANAGAACANAGGAGCAGCTCTTTTTGTGGAACATG
 TCAGGAGATGAAAGAAGTACGAAATTTGCTCACAGTTTTCAAATCAATGGTGGAGAACA
 AGNANATCAACCTACAGCTGGTCAAGCAGATGCTGAAAAGGCC

Restriction Sites:	Please inquire
ACCN:	NM_080618
Insert Size:	3600 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<ol style="list-style-type: none"> 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_080618.2 , NP_542185.2
RefSeq Size:	3493 bp
RefSeq ORF:	1992 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]

Transcript Variant: This variant (2, also know as A2) has an additional exon in the 5' UTR, compared to variant 1. Variants 1, 2 and 3 encode the same isoform (1).