

Product datasheet for **RG216042**

BORIS (CTCFL) (NM_080618) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BORIS (CTCFL) (NM_080618) 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:

>RG216042 representing NM_080618
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCCACTGAGATCTCTGTCTTTCTGAGCAATTCACCAAGATCAAAGAACTCGAGTTGATGCCGG
 AAAAAGGCCTGAAGGAGGAGGAAAAAGACGGAGTGTGCAGAGAGAAAGACCATCGGAGCCCTAGTGAGTT
 GGAGGCCGAGCGTACCTCTGGGGCCTTCCAGGACAGCGTCTGGAGGAAGAAGTGGAGCTGGTGCTGGCC
 CCCTCGGAGGAGAGCGAGAAGTACATCCTGACCCTGCAGACGGTGCACCTTCACTTCTGAAGCTGTGGAGT
 TGCAGGATATGAGCTTGCTGAGCATACAGCAGCAAGAAGGGTGCAGGTGGTGGTGAACAGCCTGGCCC
 TGGGTTGCTGTGGCTTGAGGAAGGGCCCCGCGAGCCTGCAGCAGTGTGTGGCCATTAGTATCCAGCAA
 GAGCTGTACTCCCGCAAGAGATGGAGGTGTGCAGTTCACGCTCTAGAGGAGAATGTGATGGTGGCCA
 GTGAAGACAGTAAGTTAGCGGTGAGCCTGGCTGAAACTGCTGGACTGATCAAGCTCGAGGAAGAGCAGGA
 GAAGAACCAGTTATTGGCTGAAAGAACAAGGAGCAGCTCTTTTTTGTGGAACAATGTCAGGAGATGAA
 AGAAGTGACGAAATTGTTCTCACAGTTTCAAATTCAAATGTGGAAGAACAAGAGGATCAACCTACAGCTG
 GTCAAGCAGATGCTGAAAAGGCCAAATCTACAAAAATCAAAGAAAGACAAGGGGAGCAAAAGGAACCTT
 CCACTGTGATGTCTGCATGTTACCTCTTCTAGAATGTCAAGTTTAAATCGTCATATGAAAACCTCACACC
 AGTGAGAAGCCTCACCTGTGCACCTCTGCCTGAAAACCTTCCGTACGGTCACTCTGCTGCGGAACCATG
 TTAACACCCACACAGGAACCGCCCTACAAGTGTAACTGCAACATGGCATTGTCACCAGTGGAGA
 ACTCGTCCGACACAGGCGCTATAACATACTCATGAGAAACCTTTAAATGTTCCATGTGCAAGTATGCC
 AGTGTGGAGGCAAGTAAATTGAAGCGCCATGTCCGATCCCACACTGGGGAGCGCCCTTTTCAGTGTGGCC
 AGTGCAGCTATGCCAGCAGAGATACCTACAAGCTGAAACGCCACATGAGAACGCACACTCAGGTGAGAAGCC
 TTACGAATGCCACATCTGCCACACCCGCTTCAACCAGAGCGGGACCATGAAAATACATATTCTGCAGAAA
 CACGGCGAAAATGTCCCAAAATACCAGTGTCCCAATTGTGCCACCATCATTGCACGAAAAGCGACCTAC
 GTGTGCATATGCGCAACTTGCATGCTTACAGCGTGCAGAGCTGAAATGCCGCTACTGTTCTGCTGCTT
 CCATGAACGCTATGCCCTCATTACAGCACCAGAAAACCTATAAGAATGAGAAGAGGTTCAAGTGCAAAAC
 TGCAGTTATGCCTGCAAGCAGGAACGTATGACCGCTCACATTCGTACCCACACTGGAGAGAAACCAT
 TCACCTGCCTTTCTTGAATAAATGTTTCCGACAGAAGCAACTTCTAAACGCTCACTTCAGGAAATACCA
 CGATGCAATTTTCATCCCGACTGTTTACAATGCTCCAAGTGTGGCAAAGGCTTTTCCCGCTGGATTAAC
 CTGCACAGACATTCGGAGAAGTGTGGATCAGGGGAAGCAAAGTCCGCTGCTTTCAGGAAAGGGAAGAAGAA
 CAAGAAAGAGGAAGCAGACCATCCTGAAGGAAGCCACAAAGGGTCAAGGGAAGCTGCGAAGGGATGGAA
 GGAAGCCGCAACGGAGACGAAGCTGCTGCTGAGGAGGCTTCCACCACGAAGGGAGAACAGTTCCAGGA
 GAGATGTTTCTGTCGCTGCAGAGAAACCACAGCCAGAGTCAAAGAGGAAGTGGATGAAGGCGTGACCT
 GTGAAATGCTCCTCAACACGATGGATAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_080618

ORF Size: 1989 bp

OTI Disclaimer: 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.

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_080618.1](#)

RefSeq Size: 3493 bp

RefSeq ORF: 1992 bp

Locus ID: 140690

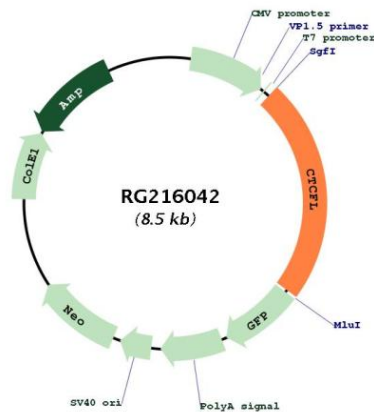
UniProt ID: [Q8NI51](#)

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]

Product images:



Circular map for RG216042