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Product datasheet for RC232695

BORIS (CTCFL) (NM_001269050) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BORIS (CTCFL) (NM_001269050) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CTCFL
Synonyms:	BORIS; CT27; CTCF-T; dJ579F20.2; HMGB1L1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232695 representing NM_001269050 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCAGGAGATGAAAGAAGTGACGAAATTGTTCTCACAGTTTCAAATTCAAATGTGGAAGAACAAGAGG ATCAACCTACAGCTGGTCAAGCAGATGCTGAAAAGGCCAAATCTACAAAAAATCAAAGAAAGACAAAGGG AGCAAAAGGAACCTTCCACTGTGATGTCTGCATGTTCACCTCTTCTAGAATGTCAAGTTTTAATCGTCAT ATGAAAACTCACACCAGTGAGAAGCCTCACCTGTGTCACCTCTGCCTGAAAACCTTCCGTACGGTCACTC TGCTGCGGAACCATGTTAACACCCACACAGGAACCAGGCCCTACAAGTGTAACGACTGCAACATGGCATT TGTCACCAGTGGAGAACTCGTCCGACACAGGCGCTATAAACATACTCATGAGAAACCCTTTAAATGTTCC ATGTGCAAGTATGCCAGTGTGGAGGCAAGTAAATTGAAGCGCCATGTCCGATCCCACACTGGGGAGCGCC CCTTTCAGTGTTGCCAGTGCAGCTATGCCAGCAGAGATACCTACAAGCTGAAACGCCACATGAGAACGCA CTCAGGTGAGAAGCCTTACGAATGCCACATCTGCCACACCCGCTTCACCCAGAGCGGGACCATGAAAATA CATATTCTGCAGAAACACGGCGAAAATGTCCCCAAATACCAGTGTCCCCATTGTGCCACCATCATTGCAC GGAAAAGCGACCTACGTGTGCATATGCGCAACTTGCATGCTTACAGCGCTGCAGAGCTGAAATGCCGCTA CTGTTCTGCTGTCTTCCATGAACGCTATGCCCTCATTCAGCACCAGAAAACTCATAAGAATGAGAAGAGG TTCAAGTGCAAACACTGCAGTTATGCCTGCAAGCAGGAACGTCATATGACCGCTCACATTCGTACCCACA CTGGAGAGAAACCATTCACCTGCCTTTCTTGCAATAAATGTTTCCGACAGAAGCAACTTCTAAACGCTCA CTTCAGGAAATACCACGATGCAAATTTCATCCCGACTGTTTACAAATGCTCCAAGTGTGGCAAAGGCTTT TCCCGCTGGATTCTCTGGGTTGGGAACTCGGAAGTGGCTGAACTGGGTGGTCCTGGCTCAGGGCCACTCC TGAGGCTGCAGTCAGGATGTCCGCCAGGGCTGCATCATCCGAAGGCTGGACTGGGGCCAGAGGATCCACT TCCAGGACAGCTCCGCCACACAACTGCTGGCACCGGCCTCAGTTCCTTGCTACAGGGACCTCTCTGCAGG GCTGCT ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

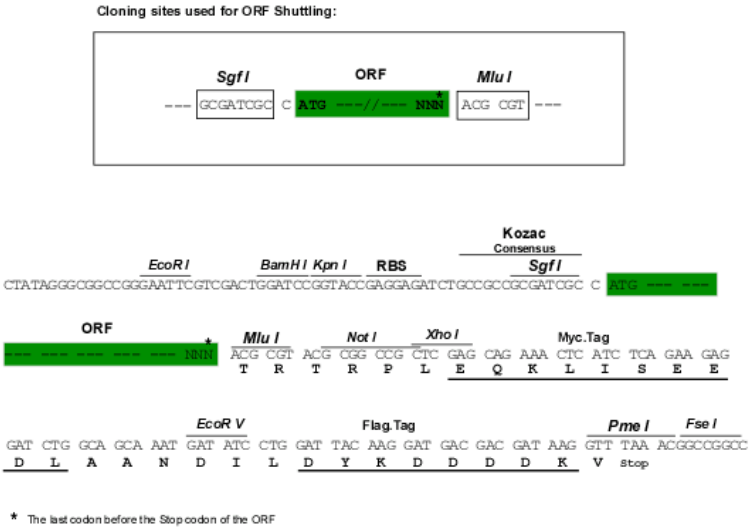
>RC232695 representing NM_001269050
Red=Cloning site Green=Tags(s)

MSGDERSDEIVLTVSNSNVEEQEDQPTAGQADAEKAKSTKNQRKTKGAKGTFHCDVCMFTSSRMSSFNRH
MKTHTSEKPHLCHLCLKTFRTVTLLRNHVNTHTGTRPYKCNDCNMAFVTSGELVRHRRYKHTHEKPFKCS
MCKYASVEASKLKRHVRSHTGERPFQCCQCSYASRDTYKLKRHMRTHSGEKPYECHICHTRFTQSGTMKI
HILQKHGENVPKYQCPHCATIIARKSDLRVHMRNLHAYSAAELKCRYCSAVFHERYALIQHQKTHKNEKR
FKCKHCSYACKQERHMTAHIRTHTGEKPFTCLSCNKCFRQKQLLNAHFRKYHDANFIPTVYKCSKCGKGF
SRWILWVGNSEVAELGGPGSGPLLRLQSGCPPGLHHPKAGLGPEDPLPGQLRHTTAGTGLSSLLQGPLCR
AA

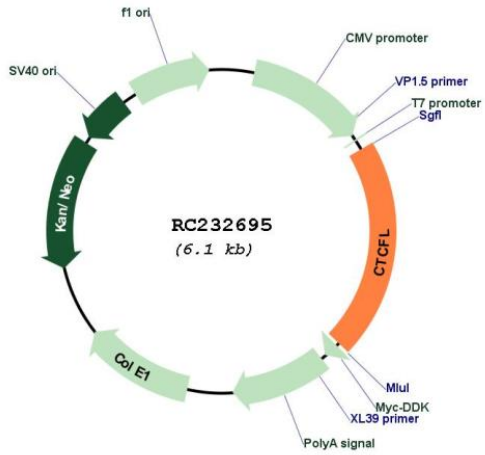
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001269050

ORF Size:	1266 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_001269050.2
RefSeq Size:	2302 bp
RefSeq ORF:	1269 bp
Locus ID:	140690
UniProt ID:	Q8NI51
Cytogenetics:	20q13.31
Protein Families:	Transcription Factors
MW:	48.5 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]