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Product datasheet for RG234163

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:	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)

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ORF Nucleotide Sequence:

>RG234163 representing NM_001269049
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
TCCCGCTGGATTAACCTGCACAGACATTCGGAGAAGTGTGGATCAGGGGAAGCAAAGTCGGCTGCTTCAG
GAAAGGGAAGAAGAACAAGAAAGAGGAAGCAGACCATCCTGAAGGAAGCCACAAAGGGTCAGAAGGAAGC
TGCGAAGGGATGGAAGGAAGCCGCGAACGGAGACGGTGTGATCTCAGCTCACCGCAACCTCTGCCTCCTG
GGTTCAAGTGATTCTCATGCCTCAGTCTCCGGAGCTGGGATTACAGATGCCCGCCACCACGCCTGGCTAA
TTGTTCTATTATTTTTAGTAGAGATGGGGTTTTACCATGTCTCTCACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234163 representing NM_001269049
Red=Cloning site Green=Tags(s)

MSGDERSDEIVLTVSNSNVEEQEDQPTAGQADAEKAKSTKNQRKTKGAKGTFHCDVCMFTSSRMSSFNRH
MKTHTSEKPHLCHLCLKTFRTVTLLRNHVNTHTGTRPYKCNDCNMAFVTSGELVRHRRYKHTHEKPFKCS
MCKYASVEASKLKRHVRSHTGERPFQCCQCSYASRDTYKLKRHMRTHSGEKPYECHICHTRFTQSGTMKI
HILQKHGENVPKYQCPHCATIIARKSDLRVHMRNLHAYSAAELKCRYCSAVFHERYALIQHQKTHKNEKR
FKCKHCSYACKQERHMTAHIRTHTGEKPFTCLSCNKCFRQKQLLNAHFRKYHDANFIPTVYKCSKCGKGF
SRWINLHRHSEKCGSGEAKSAASGKGRRTRKRKQTILKEATKGQKEAAKGWKEAANGDGVISAHRNLCLL
GSSDSHASVSGAGITDARHHAWLIVLLFLVEMGFYHVSHS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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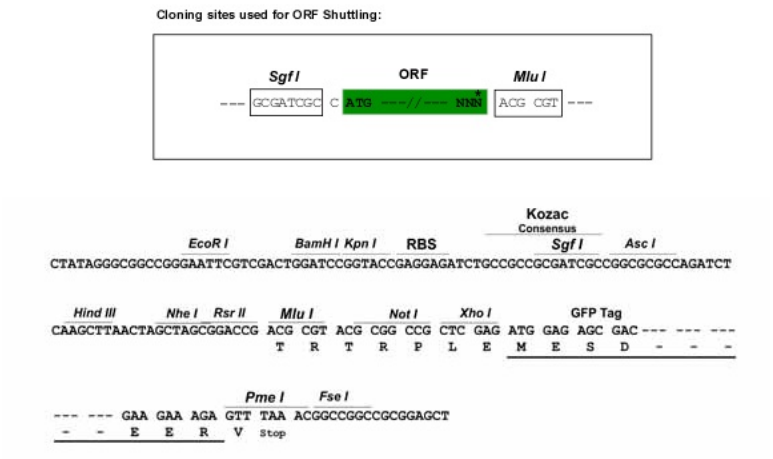
Cloning Scheme:



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

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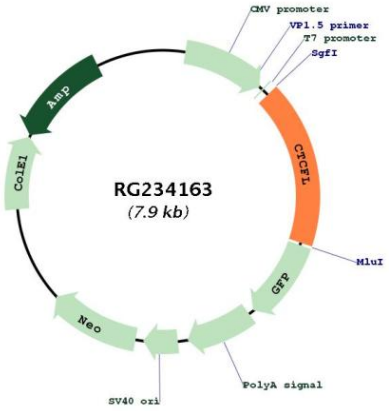
Protein Families: Transcription Factors

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 RG234163

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