

## Product datasheet for **RG232984**

### **BORIS (CTCFL) (NM\_001269047) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BORIS (CTCFL) (NM_001269047) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CTCFL
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:**

>RG232984 representing NM\_001269047  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAGCCACTGAGATCTCTGTCTTTCTGAGCAATTCACCAAGATCAAAGAACTCGAGTTGATGCCGG  
 AAAAAGGCCTGAAGGAGGAGGAAAAAGACGGAGTGTGCAGAGAGAAAGACCATCGGAGCCCTAGTGAGTT  
 GGAGGCCGAGCGTACCTCTGGGGCCTTCCAGGACAGCGTCTGGAGGAAGAAGTGGAGCTGGTGCTGGCC  
 CCCTCGGAGGAGAGCGAGAAGTACATCCTGACCCTGCAGACGGTGCACCTTCACTTCTGAAGCTGTGGAGT  
 TGCAGGATATGAGCTTGTGAGCATACAGCAGCAAGAAGGGTGCAGGTGGTGGTGAACAGCCTGGCCC  
 TGGGTTGTGTGGCTTGAAGGAAGGGCCCCGCGAGGCCTGCAGCAGTGTGTGGCCATTAGTATCCAGCAA  
 GAGCTGTACTCCCGCAAGAGATGGAGGTGTGCAGTTCACGCTCTAGAGGAGAATGTGATGGTGGCCA  
 GTGAAGACAGTAAGTTAGCGGTGAGCCTGGCTGAAACTACTGGACTGATCAAGCTCGAGGAAGAGCAGGA  
 GAAGAACCAGTTATTGGCTGAAAGAACAAGGAGCAGCTTTTTTTGTGGAACAATGTCAGGAGATGAA  
 AGAAGTGACGAAATTGTTCTCACAGTTTCAAATCAAATGTGGAAGAACAAGAGGATCAACCTACAGCTG  
 GTCAAGCAGATGCTGAAAAGGCCAAATCTACAAAAATCAAAGAAAGACAAGGGGAGCAAAAAGAACCTT  
 CCACTGTGATGTCTGCATGTTACCTCTTCTAGAATGTCAAGTTTAAATCGTCATATGAAAACCTCACACC  
 AGTGAGAAGCCTCACCTGTGCACCTCTGCCTGAAAACCTTCCGTACGGTCACTCTGCTGCGGAACCATG  
 TTAACACCCACACAGGAACCGGCCCTACAAGTGTAACTGCAACATGGCATTGTCACCAGTGGAGA  
 ACTCGTCCGACACAGGCGCTATAACATACTCATGAGAAACCTTTAAATGTTCCATGTGCAAGTATGCC  
 AGTGTGGAGGCAAGTAAATTGAAGCGCCATGTCGATCCCACACTGGGGAGCGCCCTTTTCAGTGTGCCC  
 AGTGCAGCTATGCCAGCAGAGATACCTACAAGCTGAAACGCCACATGAGAACGCACTCAGTTGAGAAGCC  
 TTACGAATGCCACATCTGCCACACCCGCTTCAACCCAGAGCGGGACCATGAAAATACATATTCTGCAGAAA  
 CACGGCGAAAATGTCCCAAAATACCAGTGTCCCAATTGTGCCACCATCATTGCACGGAAGCGACCTAC  
 GTGTGCATATGCGCAACTTGCATGCTTACAGCGCTGCAGAGCTGAAATGCCGCTACTGTTCTGCTGTCTT  
 CCATGAACGCTATGCCCTCATTACAGCACCAGAAAACCTATAAGAATGAGAAGAGGTTCAAGTGCAACAC  
 TGCAGTTATGCCTGCAAGCAGGAACGTATGACCGCTCACATTCGTACCCACACTGGAGAGAAACCAT  
 TCACCTGCCTTTCTTGAATAAATGTTCCGACAGAAGCAACTTCAAACGCTCACTTCAGGAAATACCA  
 CGATGCAATTTTCATCCCGACTGTTTACAATGCTCCAAGTGTGGCAAAGGCTTTTCCCGCTGGATTACC  
 TCAAAATGGAGTGGCTTAAAACCACAAACATTTATCACC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - **GTTTAA**

**Protein Sequence:**

>RG232984 representing NM\_001269047  
 Red=Cloning site Green=Tags(s)

MAATEISVLSEQFTKIKELELMPEKGLKEEEKDGVCREKDHRSPELEAERTSGAFQDSVLEEEVELVLA  
 PSEESEKYILTLQTVHFTSEAVELQDMSLLSIQQQEGVQVVVQQPGPGLLWLEEGPRQSLQQCVAI SIQQ  
 ELYSPQEMEVLQFHALEENVMVASEDSKLAVSLAETTGLIKLEEEQEKNQLLAERTKEQLFFVETMSGDE  
 RSDEIVLTVSNSNVEEQEDQPTAGQADAIEKAKSTKNQRKTKGAKGTFHCDVCMFTSSRMSSFNRHMKTHT  
 SEKPHLCHLCLKTFRVTVLLRNHVNTHTGTRPYKCNDCNMAFVTSSELVRHRYKHTHEKPFKCSMCKYA  
 SVEASKLKRHVRSHTGERPFQCCQCSYASRDYKLRHMRTHSGEKPYECHICHTRFTQSGTMKIHLQK  
 HGENVPKYQCPHCATIIARKSDLRVHMRNLHAYSAAELKCRYCSAVFHERYALIQHQKTHKNEKRFKCKH  
 CSYACKQERHMTAHIRHTHTGEKPFPTCLSCNKCFRQKQLLNAHFRKYHDANFIPTVYKCSKCGKGF SRWIT  
 SKWSGLKPQTFIT

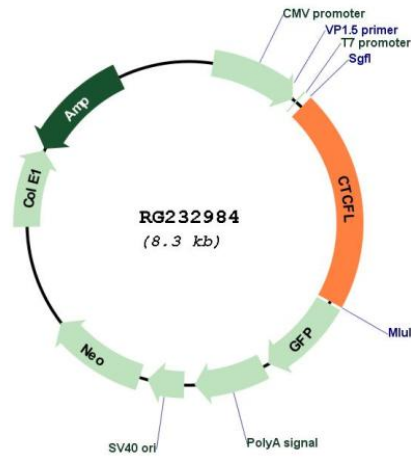
**TRTRPLE** - GFP Tag - **V**

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:

**Plasmid Map:**

ACCN: NM\_001269047

ORF Size: 1719 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001269047.1</a> , <a href="#">NP_001255976.1</a>
<b>RefSeq Size:</b>	3002 bp
<b>RefSeq ORF:</b>	1722 bp
<b>Locus ID:</b>	140690
<b>UniProt ID:</b>	<a href="#">Q8NI51</a>
<b>Cytogenetics:</b>	20q13.31
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	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]