

Product datasheet for **KN216042**

BORIS (CTCFL) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	BORIS
Locus ID:	140690
Components:	<p>KN216042G1, BORIS gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTCGAGTTGATGCCGAAAA</p> <p>KN216042G2, BORIS gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCTTGGTGAATTGCTCAGAA</p> <p>KN216042D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p> <p>Homologous arm and GFP-puro sequences: pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet</p> <pre> TTGGCCAAGT CTGGGTGGGC TCGAGGCCAC TAGGCCAAA GCCTGCCTGG CTCTGAGGGT GCTAGGTCTA GAACCGTGCA CGAGGGGAAT GCCTGCTCGG GCCCGAACCT CGCTGGGCGC CGGGTGTGCA CTGGCCCGGG GCCTGCTTGG ACCTGAAACT TGCTAGGCC AGGATATGCA CTGGCCGAGA GCCTGCTGGG CCCAACCTT ACTAGGCCCA GGATGTTTAC TGA CTGAACC GGCTCAGGCC TAACCTTGCT AGGCCAGGA TATGCACTGG GCCAGAGTGT GCTCAGGCGG AACCTTGCCA GGCCAGGAT GTGTGCTGGC CCTAAGCCTG CTGAGGCCCA AACCTGTTTCG TTCTAGGGTT TTGTACAAAA TCCTGCTTTA GCCTAAATCC TGCTTAGCCT TGACCCCTC CTAGACCCAA GCCAGATCAG CATTGTTCTG ACCCTACTAA GTCCAAAACC TTTTGAGGCC AGACCTTGTT TCAACTCAA AGCCTGCTAG GTTCCAGCAC CCCC GCATC CCTCCTCATA CCACCCCTT CTCCCCCTA TGGAAACCGC TTGCTTATTT TTCAAACAGG CCAAGTCATT AAAGACCATC GGAGCCCTAG TGAGTTGGAG GCCGAGCGTA CCTCTGGGGC CTTCCAGGAC AGCGTCTGG AGGAAGAAGT GGAGCTGGTG CTGGCCCTT CGGAGGAGAG CGAGAAGTAC ATCCTGACCC TGCAGACGGT GCACTTCACT TCTGAAGCTG TGGAGTTGCA GGATATGAGC TTGCTGAGCA TACAGCAGCA AGAAGGGGTG CAGGTGGTGG TGCAACAGCC TGGCCCTGGG TTGCTGTGGC TTGAGGAAGG GCCCCGCAG AGCCTGCAGC AGTGTGTGGC CATTAGTATC CAGCAAGAGC TGTACTCCC GCAAGAGATG GAGGTGTTGC AGTTCACGC TCTAGAGGAG AATGTGATGG TGGCCAGTGA AGACAGTAAG TTAGCGGTGA GCCTGGCTGA AACTACTGGA CTGATCAAG TACAGCTGGT TTTAATAAAC AACCCCTTAC ATGAAAAAGA AAAAATCAA GTCGGCTTTT ATGCAATATT ATGTCTGGAC AAGGTATTTT GCAGTTGCAA ATTAAGACA GTACAAATAC TTCCAGGAA AATCTTGAGA GTTCTTAGT TCTTTTTTAA AAAAGATTT </pre> <p>GE100003, scramble sequence in pCas-Guide vector</p>



[View online »](#)

Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

RefSeq: [NM_001269040](#), [NM_001269041](#), [NM_001269042](#), [NM_001269043](#), [NM_001269044](#), [NM_001269045](#), [NM_001269046](#), [NM_001269047](#), [NM_001269048](#), [NM_001269049](#), [NM_001269050](#), [NM_001269051](#), [NM_001269052](#), [NM_001269054](#), [NM_001269055](#), [NM_080618](#), [NR_072975](#)

UniProt ID: [Q8NI51](#)

Synonyms: BORIS; CT27; CTCF-T; dj579F20.2; HMGB1L1

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:

