

Product datasheet for MR212070

Bcor (NM_175045) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bcor (NM_175045) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bcor
Synonyms:	2900008C10Rik; 5830466J11Rik; 8430401K06Rik; BcorR; D930024N20Rik; mKIAA1575
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR212070 representing NM_175045 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTTTCTGCAACCCCTCTGTATGGGAACGTTACAGCTGGATGAACAGCGAGAGGGTCCGCATGTGTG
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GGAAATGGATGTTCTATCTATAGATCAGAGATCATCAGCACTGCTCCCTCATCTGGGTGGTGCCAGGGC
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>MR212070 representing NM_175045
Red=Cloning site Green=Tags(s)

MLSATPLYGNVHSMNSERVRMCGTSEDRKIPVNDGDASKARLELREETPLSHSVVDTSGAHRIDGLAAL
SMDRTGLIREGLRVPGNIVYSGLCGLGSEKGREATPSSL SGLGFSSERNPEMQFKPNTPETVEASAVSGK
PPNGFSAIYKTPPGIQKSAVATAESLGLDRPASDKQSPLNINGASYLRPWPVNPYMEGATPAIYPFLDSP
NKYSLNMYKALLPQQSYGLAQLYSPVCTSGERFLYLPPHYVNPHIPSSLASPMRLSTPSASAAIPPLV
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ASSTKLHPEVPTDKNLKPNSWNQKGTGVKSDKLVYVDLLREEADTKTDAGAPKAGLVAENVGQDTEATK
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FSPADWERLKGNEKPKSVTLEEAIAQNDSECEYSTGNKHDLFEAPEDKDLPVEKYFLERPPVSEPP
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ATQLPRNSPQETTSRPMPEARRLIVNKNAGETLLQRAARLGYEEVLYCLENKVCVNHHRDNAGYCA
LHEACARGWLNIVRHLLLEYGADVNCSAQDGTPLHDAVENDHLEIVRLLLSYGADPTLATYSGRTIMKMT
HSELMEKFLTDYLNLDLQGRSEDDTSGAWEFYGSVCEPDDESGYDVLANPPGPEDPDEEEDTYSDLFEFE
FAESSLLPCYNIQVVAQGRNWL LLDVLLKLLKMSRIFRSNFPNLEIVTIAEAEFYRQVSTSLFSCP
KDLEAFNPESKELLDLVEFTNELQTLGSSVEWLHPSDTGHENYW

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_175045

ORF Size: 5175 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_175045.3](#), [NP_778210.2](#)

RefSeq Size: 6857 bp

RefSeq ORF: 5178 bp

Locus ID: 71458

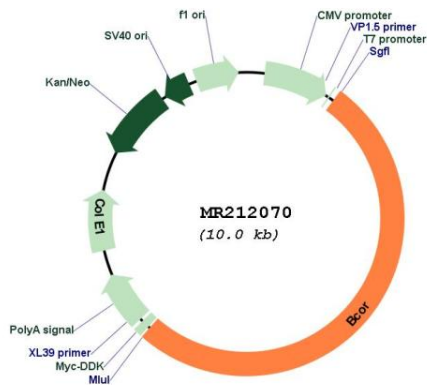
UniProt ID: [Q8CGN4](#)

Cytogenetics: X A1.1

MW: 189.1 kDa

Gene Summary: Transcriptional corepressor. May specifically inhibit gene expression when recruited to promoter regions by sequence-specific DNA-binding proteins such as BCL6 and MLLT3. This repression may be mediated at least in part by histone deacetylase activities which can associate with this corepressor. Involved in the repression of TFAP2A; impairs binding of BCL6 and KDM2B to TFAP2A promoter regions. Via repression of TFAP2A acts as a negative regulator of osteo-dentiogenic capacity in adult stem cells; the function implies inhibition of methylation on histone H3 'Lys-4' (H3K4me3) and 'Lys-36' (H3K36me2) (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR212070