

## Product datasheet for **MG212070**

### Bcor (BC058656) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Bcor (BC058656) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bcor
Synonyms:	2900008C10Rik; 5830466J11Rik; 8430401K06Rik; BcorR; D930024N20Rik; mKIAA1575
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG212070 representing BC058656 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTTTCTGCAACCCCTCTGTATGGGAACGTTACAGCTGGATGAACAGCGAGAGGGTCCGCATGTGTG  
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GGAAATGGATGTTCTATCTATAGATCAGAGATCATCAGCACTGCTCCCTCATCTGGGTGGTGCCAGGGC  
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 AAAGACCTGGAAGCCTCAATCCTGAAAGCAAGGAGCTGTTGGATCTGGTGAATTCACCAATGAGCTCC

AGACACTGCTGGGCTCCTCTGTGGAGTGGCTCCACCCTAGTGACACGGGCCATGAAAACACTGG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG212070 representing BC058656

Red=Cloning site Green=Tags(s)

MLSATPLYGNVHSMNSERVRMCGTSED RKIPVNDGDASKARLELREETPLSHSVVDTSGAHRIDGLAAL  
 SMDRTGLIREGLRVPGNIYVYGLGSEK GREATPSSL SGLGFSSERNPEMQFKPNTPETVEASAVSGK  
 PPNGFSAIYKTPPGIQKSAVATAESLGLDRPASDKQSPLNINGASYLRLPWVNPYMEGATPAIYPF LDSP  
 NKYSLNMYKALLPQQSYGLAQLYSPVCTSGERFLYLP PPHYVNP HIPSSLASPMRLSTPSASAAIPPLV  
 HCSDKSLPWKMGVNP GNPVDSHSYPHIQNSKQPRVTSAKAVNSGLPGDTALLLPSPRPSARVHLPTQPA  
 AETYSEFHKKHYPRISTSPSVTLTKPYMTANSEFSTSRLSNGKYPKALDGGDCAQSM PGHTRKTTVQDRKD  
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 ASSTKLHPEVPTDKNLKPNSWNGKTVKSDKLVYVDLLREEADTKTDAGAPKAGLVAENVGQDTEATK  
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 GSEGPVTFGKTQEDPKPF CVGGAPPNMDVTPAYTKEGTDEAESNDGKVLKPKPSKLAKRIANSAGYVGD  
 RFKCVTTEL YADSSQLSREQRALQMEGLQEDSILCLPAAYCERAMMRFSELEMKERE GSHPATKDSEVCK  
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 SDQGVVDTPHSPTLR LDRKRKLSGDSTHTETA VEELAEADPLKAKRRRISKGLHPKKQRHLLHLRERWEQQ  
 VSAAESKPGRQSRKEVAQAVQPEVTSQGTNIT EEKPRKKA EAKGNRGWSEESLKS CDNEQGLPVL SGSP  
 PMKSLSSN ASGKKQTQP SCTPASRLPAKQKIKESQKTDVLC TGEDEDCQAASPLQKYTDNIEKPSGKR  
 LCKTKHLIPQESRRSLQITGDYVVENTDKMTVRRFRKRPEPSSDYDLSPPAKQEPKPFDR LQQLPATQ  
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 LHEACARGWLNIVRHLL EYGADVNC SAQDGRPLHDAVENDHLEIVRLLLSYGADPTLATYSGRTIMKMT  
 HSELMEKFLTDYLN DLQGRSEDDTSGAW EFGSSVCEPDDES GYDVLANPPGPEDPDEEEDTYSDLFEFE  
 FAESSLLPCYNIQVSAQGRN WLLLSDVLK LKLMSSRIFRSNFPNLEIVTIAEAEFYRQVSTSLLFSCP  
 KDLEAFNPESKELLDLVEFTNELQTL LGSSVEWLHPSDTGHENY

TRTRPLE – GFP Tag – V

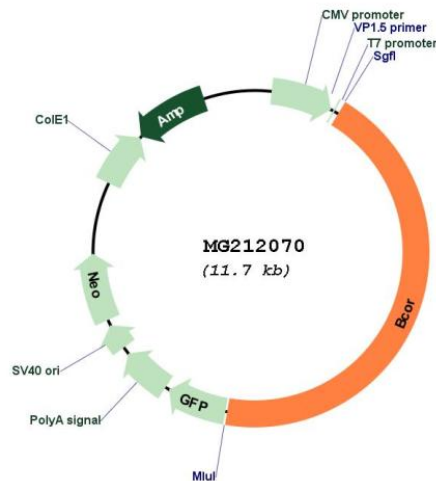
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** BC058656

**ORF Size:** 5177 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:** [BC058656](#), [AAH58656](#)

**RefSeq Size:** 6358 bp

**RefSeq ORF:** 5177 bp

**Locus ID:** 71458

**Cytogenetics:** X A1.1

**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]