

Product datasheet for **MG211033**

Bcar1 (NM_009954) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bcar1 (NM_009954) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bcar1
Synonyms:	A1385681; Cas; Crkas
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG211033 representing NM_009954
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCGTGCCGAACGTGCTGGCCAAAGCCTCTATGACAATGTTGCTGAATCCCCGGATGAGCTCTCCT
 TCCGAAAGGGTGACATCATGACAGTGCTCGAGCGGGACACTCAGGGCCTGGATGGCTGGTGGCTCTGCTC
 ACTGCATGGGCGCCAGGGCATTGTGCTGGTAACCGCCTCAAGATTCTGGTTGGCATGTATGATAAGAAG
 CCAGTAGGACCTGGACCAGGCCACCTGCCACCCACCCAGCCCAGCCCAGCCTTCCCAGGGCGTCC
 ATGCTCCGGTACCTCCAGCTTCCAGTACAGTCCCATGCTCCCCACTGCGTACCAGCCCCAGTCTGACAA
 TGTGTACCTGGTACCCACTCCCAGCAAGACTCAGCAAGGTCTCTACCAAGCCCCTGGGCCAAACCCACAG
 TTCCAGTACCCCCAGCCAAACAGACGTCCACATTCTCCAAGCAAACACCTCATCACTCATTCCCAGCC
 CAGCCACGGACCTTACCAGGTGCCCCAGGGCCTGGAAGTCCAGCCCAGGACATTTATCAGGTGCCACC
 TTCGGCTGGCATAGGGCATGACATCTACCAAGTTCCTCCATCTCTGGACACTCGCGGATGGGAGGGAACA
 AAGCCACCGCAAAGGTGGTGGTTCCTACGCGAGTGGGACAGGGCTATGTGTATGAGGCCGCTCAGACGG
 AGCAGGATGAGTACGACACCCACGCCACCTGCTGGCCCCAGGTCCCAGGACATCTATGATGTGCCCCC
 TGTTCCGAGGACTGCTTCCCTAACCAGTATGGCCAGGAGGTATATGACACGCCCCCTATGGCAGTCAAAGGC
 CCCAATGGCCGAGACCCATTGTTGGATGTGTATGACGTGCCCCCTAGTGTGGAGAAAGGCCCTGCTCTCGT
 CCAGCCATCATTCCGGTGTATGATGTTCCCTCCTTCTGTGAGCAAGGATGTGCCCGATGGCCCACTGCTGCG
 TGAGGAAACCTATGATGTACCTCCTGCCTTCGCCAAGCCAAAGCCCTTTGATCCCACCCGACACCCACTG
 ATCCTTGCTGCGCCTCCTCCGACTCCCAGCAGCTGAGGATGTATATGATGTGCCCCCCCTCGCCCCG
 ACCTCTATGATGTGCCCTGGTTTGGCGCGGCTGGCCCTGGAACACTGTATGACGTGCCCTCGCGCG
 CGTGCTCCCTCCTGAGGTGGCTGATGGGAGTGTAGTTGACGATGGTGTGTATGCTGTGCCCCACAGCC
 GAGCGAGAGGCCCAACGGATGGCAAGCCCTGTGCGCCTCTAGCACGGGCGACGCGCAGCAGCAAT
 CGGCATCTCCTTGGAGGTGGTGGTGCCAGGCCGGGAGCCCTGGAAGTGGAGGTTGCTGTGGAGTCCCT
 GGCTCGGCTGCAGCAAGGCGTGAGCACCACCGTAGCCACCTTCTGGACCTGGTGGGCGAGTCCAGTGGG
 CCTGGGGCTGGCGTGGTACCTCTGAGCCTCAGGAGCCTCCCGCACAGGACCTGAAAGCCGCGAGTGGCGG
 CAGTTCACGGGGCAGTCCATGAGCTCCTGGAGTTCGCCCCGGGAGCTGTGAGCAATGCCACCCACACTTC
 TGACCGCACCTTGATGCCAAGCTTAGCCGGCACTACAGAAGATGGAGGATGTGTACCAGACACTGGT
 GTCACCGGTGAGTCCCTGACAGTGGCCGAGGAAGTCCAGGATCACTCCGGAAGACCTGGACCGCCTGG
 TGGCCTGCTCTCGGGCTGTGCCCGAGGATGCCAAGCAGCTAGCTTCTTTTGCATGGCAATGCCTCGCT
 GCTTTTACAGACGGACAAAGCCCTGGCCAGGGCCTGAGGGAAGCAGCTCCCTGCACCCAAACCCCACT
 GATAAAGCCAGTAGCATCCAGTACGCCCCTCTCCCTCACCTCCAAGTTACCTCCCAGGACTCTCCAG
 ACGGCCAGTATGAGAACAGTGAAGGGGTTGGATGGAGGACTATGACTACGTCCAATCTGCAGGGGAAGGA
 GGAATTTGAGAAGACCCAGAAGGAGTGTAGAAAGGGGTAACATCATGCGGCAGGGAAAGGGCCAACTG
 GAGTTGCAGCAGCTGAAACAGTTTGGAGCAGTGGAGCAGGAGGTGTCTCGTCCAATAGACCACGACCTGG
 CCAACTGGACACCAGCCAGCCCTGGTGCCGGCCGGACAGGGGCTGGGGCCTTCCAGACCGACAGT
 GCTGCTTCTACTTGGAGCAGTGGAGGCAACCTGACCACACTGACAGATGCAGTGGACGCCTTCTTC
 ACTGCGGTGGCCACCAACCAACCAAGATCTTTGTGGCACACAGCAAGTTTGTATTCTCAGTGCCC
 ACAAGCTTGTGTTCAATTGGGGACACACTGTACGGCAGGCAAAGGCGAGCTGATGTCCGAAGCCAAGTGAC
 CCACTACAGCAATCTGCTGTGTGACCTCCTGCGTGGCATTGTGGCCACCACCAAGGCTGCTGCCCTGCAG
 TACCCATCCCCTCCGCTGCCAGGACATGGTGGACAGGGTCAAGGAGCTAGGCCACAGCACTCAGCAGT
 TCCGCCGCTCCTGGCCAGCTAGCTGCTGCC

ACGGTACGCGGCCGCTCGAG - GFP Tag - **GTTTAA**

Protein Sequence: >MG211033 representing NM_009954
 Red=Cloning site Green=Tags(s)

MTVPNVLAKALYDNVAESPDELSFRKGDIMTVLERDQTGLDGWWLCSLHGRQGI VPGNRLKILVGM YDKK
 PVGPGPGPPATPPQPQPSLPQGVHAPVPPASQYSPMLPTAYQPQSDNVYL VPTPSKTQQGLYQAPGPNPQ
 FQSPPAKQSTFSKQTPHHSFSPATDL YQVPPGPGSPAQDIYQVPPSAGIGHDIYQVPPSLDTRGWEGT
 KPPAKVVVPTRVGQGYVYEAQAQTEQDEYDTPRHLLAPGPQDIYDVPPVRGLLPNQYQEVYDTPPMAVKG
 PNGRDPLLDVYDVPPSVEKGLLSSSHSVYDVPPSVSKDVPDGPLLREETYDVPPAFAPKPKFPDTRHPL
 ILAAPPPDSPAEDVYDVPPAPDLYDVPPGLRRPGPTLYDVPRERVL PPEVADGSVVDG VYAVPPPA
 EREAPT DGKRLSASSTGSTRSSQSASSLEVVVPGREPLELEVAVESLARLQQGVSTTVAHLLDLVGSASG
 PGGWRGTSEPQEPQAQDLKAAVA AVHGA VHELLEFARGAVSNATHTSDRTLHAKLSRQLQKMEDVYQTLV
 VHGVQLDSGRGSPGFTPEDLDRLVACSRAPVEDAKQLASFLHGNASLLFRRTKAPGPGPEGSSSLHPNPT
 DKASSIQSRPLPSPKFTSQDSPDQYENSEGGW MEDYDVHLLQGKEEFKTKELLERGNIMRQKGGQL
 ELQQLKQFERLEQEVSRPIDHDLANWTPAQPLVPGRTGGLGPSDRQLLLFYLEQCEANLTTLTDVA DAF
 TAVATNQPKIFVAHSKFVILSAHKL VFIGDTLSRQAKAADVRSQVTHYSNLLCDLLRGI VATTKAAALQ
 YPSPSAAQDMVDRVKELGHSTQQFRRVLGQLAAA

TRTRPLE - GFP Tag - V

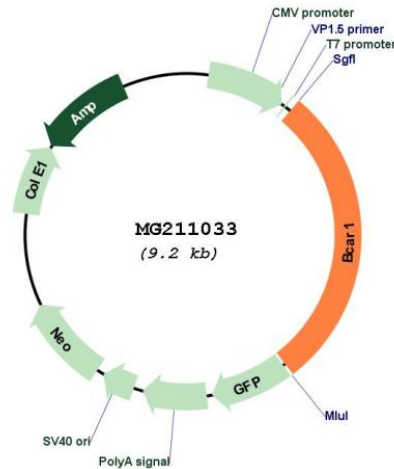
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009954

ORF Size: 2622 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_009954.3](#), [NP_034084.2](#)

RefSeq Size: 3209 bp

RefSeq ORF: 2625 bp

Locus ID: 12927

UniProt ID: [Q61140](#)

Cytogenetics: 8 E1

Gene Summary: Docking protein which plays a central coordinating role for tyrosine kinase-based signaling related to cell adhesion. Implicated in induction of cell migration (By similarity). Has been shown to be essential in cardiovascular development during embryogenesis.
[UniProtKB/Swiss-Prot Function]