

Product datasheet for **RR200423**

Bcan (NM_012916) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bcan (NM_012916) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Bcan
Synonyms:	ALPBRE; BEHAB
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RR200423 representing NM_012916
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCCCATTGCTTCTGTCCCTGCTGGCAGCTCTGGTCTGACCCAAGCCCCTGCAGCCCTCGCTGATG
 ACCTGAAAGAAGACAGCTCAGAGGATCGAGCCTTTCGGGTGCGCATCGGTGCCGCGCAGCTGCGGGGTGT
 GCTGGGCGGTGCCCTGGCCATCCCATGCCACGTCCACCACCTGAGGCCGCGCCAGCCGCGGGCCGCG
 CCGGGCTTCCCGAGTCAAATGGACCTTCTGTCCGGGACCGGGAGGTGGAGGTGCTGGTGGCGCGG
 GGCTGCGCGTCAAGGTAACGAAGCCTATCGGTTCCGCGTGGCGCTGCCTGCCTACCCCGCATCGCTCAC
 AGATGTGTCTTTAGTATTGAGCGAACTGCGGCCAATGATTCCGGGTCTATCGTGCAGGTCCAGCAC
 GGTATCGACGACAGCAGTGTGTGGAAGTCAAGTCAAAGGGTTCGCTTCTCTACCGAGAGGGCT
 CTGCCCGTATGCTTTCCTTCGCTGGAGCCAGGAAGCCTGTGCTCGCATCGGAGCCGAATTGCCAC
 CCCTGAGCAGCTGTATGTGCCTACCTCGGCGGTATGAACAGTGTGATGCTGGTGGCTGTCCGACCAA
 ACCGTGAGGTACCCCATCCAGAACCACGAGAAGCCTGTTATGGAGACATGGATGGCTACCTGGAGTGC
 GGAATTACGGAGTGGTGGTCTGATGATCTCTACGATGTCTACTGTTATGCCGAAGACCTAAATGGAGA
 ACTGTTCTAGGTGCCCTCCCGCAAGCTGACGTGGGAGGAGGCTCGGGACTACTGTCTGGAACCGGT
 GCTCAGATCGCTAGCACGGGCCAGCTATACGCGGCATGGAATGGCGGCTTGGACAGATGTAGCCCTGGCT
 GGCTGGCTGATGGCAGTGTGCGGTACCCCATCATCACGCCAGCCAACGCTGTGGGGAGGCTGCCAGG
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 TGCTTCCGAGACTCTGCCATCCCTCTGCCTTCTGAGGCCCTCAGCCAGCCTCTGATGGACTAGAGG
 CCATTGTCACAGTGACAGAGAAGCTGGAGGAAGTGCAGTTGCCTCAGGAAGCTGTGGAGAGCGAGTCTCG
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 GAGGCCCCAGGACTCCTCTAGAATCAGAAACCAATCCGTTGCACCACCTACCGGGTCTCAGAAGAGG
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 TCCAGGTGTCCCACCAGCCAGGCAGTTCTACAGCTGGGTGCATCACCTTCTCCAGGCCTCAAAGG
 TCCATGGACCGCCTGCAGAGACTTGAACCCCAAGGGAGGGAAGCCTCACATCTACTCCAGATGGGGC
 AAGAGAAGTAGCGGGGAAACTGGGAGCCCTGAGCTCTCTGGGTTCTCGAGAAAGCGAGGAGGCAGGA
 AGCTCCAGCTTGGAGGATGGCCCTTCCCTCTTCCAGCGACATGGGCCCTGTGGGTACCAGGGAGCTGG
 AGACCCCTCAGAAGAGAAGTCTGGAAGAACTGTTCTGACAGGCACATCAGTGCAGGCCAGCCAGTGTCT
 GCCACCAGCAGTGCAGCCGAGGTGGAGTGGCTGTGGTCCCTCATCAGGTAATTCTGCCGAAGGCTCG
 ATGCCCGCTTCTCTTCTCTCTCCTCCAGCTCTGGGCCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200423 representing NM_012916
 Red=Cloning site Green=Tags(s)

MIPLLLSLLAALVLTQAPAAADDLKEDSSEDRAFRVIRIGAAQLRGVLGGALAI PCHVHHLRPPPSRRAA
 PGFPRVKWTF LSGDREVEVLVARGLRVKVNEAYRFRVALPAYPASLTDVSLVLSLRPNDSGVYRCEVQH
 GIDSSDAVEVKVKG VFLYREGSARYAFSFAQAQACARIGARIATPEQLYAA YLGGYEQCDAGWLS DQ
 TVRYPIQNPREACYGDM DGYPGVRNYGVVGPDDL YDVYCYAEDLNGELFLGAPPGKLTWEEARDYCLERG
 AQIASTGQLYAAWNGGLDR CSPGWLADGSVRYPIITPSQR CGGGLPGVKTLFLFPNQTGFPSKQNRFNVY
 CFRDSAHP SAFSEASSPASDGLEAIVTVTEKLEELQLPQEAVESESRGAIYSIPI TEDGGGGSSTPEDPA
 EAPRTPLESETQSVAPPTGSSEEEGEALEEEERFKDTETPK EEKEQENLWVWPTELSSPLPTGLETEHSL
 SQVSPPAQAVLQLGASPSRPPRVHGPPAETLQPPREGSLTSTPDGAREVAGETGSPELSGVPRESEEAG
 SSSLEDGPSLLPATWAPVGTRELETPSEEKSGRTVLTGTSVQAQPVLP TDSASRGGVAVAPSSGNSAEGS
 MPAFLFLLLQLWAT

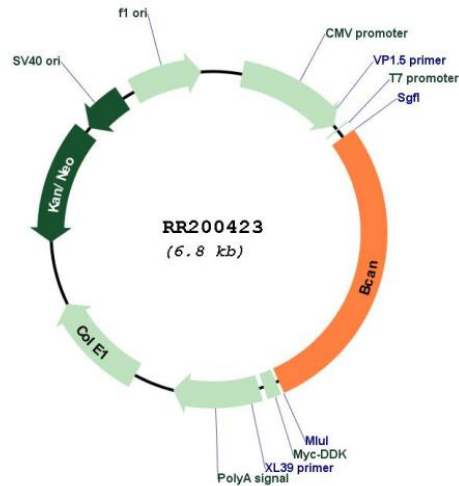
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_012916

ORF Size: 1935 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_012916.2](#), [NP_037048.2](#)

RefSeq Size: 2714 bp

RefSeq ORF: 1938 bp

Locus ID: 25393

UniProt ID: [P55068](#)

Cytogenetics: 2q34

MW: 69 kDa

Gene Summary: brain-specific member of the aggrecan family of chondroitin sulfate proteoglycans; extracellular matrix (ECM) protein; binds hyaluronan, a ubiquitous component of the ECM [RGD, Feb 2006]