

Product datasheet for **RR200422**

Bcan (NM_001033665) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bcan (NM_001033665) 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:

>RR200422 representing NM_001033665
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCCCATTGCTTCTGTCCCTGCTGGCAGCTCTGGTCTGACCCAAGCCCCTGCAGCCCTCGCTGATG
 ACCTGAAAGAAGACAGCTCAGAGGATCGAGCCTTTCGGGTGCGCATCGGTGCCGCCAGCTGCGGGGTGT
 GCTGGGGGGTGCCTGGCCATCCATGCCACGTCCACCACCTGAGGCCGCCGCCAGCCGCCGGGCCGCG
 CCGGGCTTCCCGAGTCAAATGGACCTTCTGTCCGGGACCGGGAGGTGGAGGTGCTGGTGGCGCGCG
 GGCTGCGCGTCAAGGTAACGAAGCCTATCGGTTCCGCGTGGCGCTGCCTGCCTACCCCGCATCGCTCAC
 AGATGTGTCTTTAGTATTGAGCGAACTGCGGCCAATGATTCCGGGGTCTATCGCTGCGAGGTCCAGCAC
 GGTATCGACGACAGCAGTGTGTGGAAGTCAAGGTCAAAGGGTTCGCTTCTCTACCGAGAGGGCT
 CTGCCCGTATGCTTCTCTTCGCTGGAGCCAGGAAGCCTGTGCTCGCATCGGAGCCGAATTGCCAC
 CCCTGAGCAGCTGTATGTGCCTACCTCGCGGGTATGAACAGTGTGATGCTGGTGGCTGTCCGACCAA
 ACCGTGAGGTACCCCATCCAGAACCACGAGAAGCCTGTTATGGAGACATGGATGGTACCTGGAGTGC
 GGAATTACGGAGTGGTGGTCTGATGATCTCTACGATGTCTACTGTTATGCCGAAGACCTAAATGGAGA
 ACTGTTCTAGGTGCCCCCTCCGGCAAGCTGACGTGGGAGGAGGCTCGGGACTACTGTCTGGAACCGGT
 GCTCAGATCGCTAGCACGGGCCAGCTATACGCGGCATGGAATGGCGGCTTGGACAGATGTAGCCCTGGCT
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 TGCTTCCGAGACTCTGCCATCCCTCTGCCTTCTGAGGCCCTCAGCCAGCCTCTGATGGACTAGAGG
 CCATTGTCACAGTGACAGAGAAGCTGGAGGAAGTGCAGTTGCCCTCAGGAAGCTGTGGAGCGGAGTCTG
 TGGGGCGATCTACTCCATCCCCATCACAGAAGATGGGGGAGGAGGAAGCTTACCCAGAAAGACCCAGCA
 GAGGCCCCAGGACTCCTCTAGAATCAGAAACCAATCCGTTGACCACCTACCGGGTCTCAGAAGAGG
 AAGGCGAAGCCCTGGAGGAAGAAGAAAGATTCAAAGACACAGAGACTCCGAAGGAAGAGAAGGAGCAGGA
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 TCCATGGACCCGCTGCAGAGACTTTCACCCCAAGGGAGGGAAGCCTCACATCTACTCCAGATGGGGC
 AAGAGAAGTAGCGGGGAAACTGGGAGCCCTGAGCTCTCTGGGGTTCCTCGAGAAAGCGAGGAGGCAGGA
 AGCTCCAGCTTGGAGGATGGCCCTTCCCTCCTTCCAGCGACATGGGCCCTGTGGGTACCAGGGAGCTGG
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 GACCACGGGGACAGCTCCCGAGGACAGGAAAGCACTGTTGACACCTCCCTCCAGTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200422 representing NM_001033665
 Red=Cloning site Green=Tags(s)

MIPLLLSLLAALVLTQAPAALADDLKEDSSEDRAFRVRIGAAQLRGVGGALAI PCHVHHLRPPPSRRAA
 PGFPRVKWTF LSGDREVEVLVARGLRVKVNEAYRFRVALPAYPASLTDVSLVLSLRPNDSGVYRCEVQH
 GIDSSDAVEVKVKG VFLYREGSARYAFS FAGAQEACARIGARIATPEQLYAA YLGGYEQCDAGWLS DQ
 TVRYPIQNPREACYGDM DGYPGVRNYGVVGPDDL YDVVYCAEDLNGELFLGAPPGLKTWEEARDYCLERG
 AQIASTGQLYAAWNGGLDRCSPGWLADGSVRYPIITPSQRCGGGLPGVKTLFLFPNQTGFPSKQNRFNVY
 CFRDSAHP SAFSEASSPASDGLEAIVTVTEKLEELQLPQEAVESESRGAIYSIPI TEDGGGGSSTPEDPA
 EAPRTPLESETQSVAPPTGSSEEEGEALEEEERFKDTETPKKEEQENLWVWPTELSSPLPTGLETEHSL
 SQVSPPAQAVLQLGASPSRPPRVHGPPAETLQPPREGSLTSTPDGAREVAGETGSPELSGVPRESEEAG
 SSSLEDGSPLLPATWAPVGTRELETPSEEKSGRTVLTGTSVQAQPVLP TDSASRGGVAVAPSSGDCIPSP
 CHNGGTCL EEKEGFRCLCLPGYGGDLCDVGLHFCSPGW EAFQGACYKHFSTRRSWEEAESQCRALGAHLT
 SICTPEEQDFVNDRYREYQWIGLNDRTIEGDFLWSDGAPLLYENWNP GQPD SYFLSGENCVVMVWH DQGG
 WSDVPCNYHL SYTCKMGLVSCGPPPQLPLAQIFGRPRLRYAVD T VLR YRCRDGLAQRNLPLIRCQENGLW
 EAPQISCVPRRPARALRSMTAPEGRGQLPRQRKALLTPPSSL

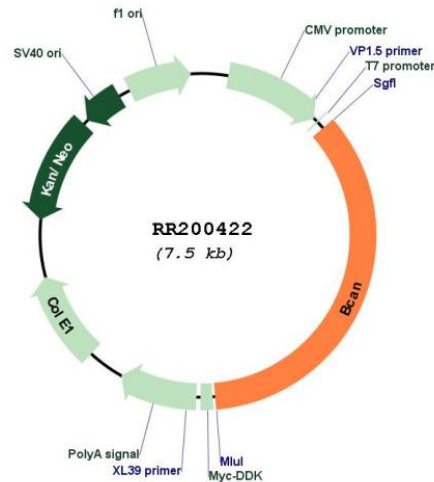
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001033665

ORF Size: 2649 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_001033665.1](#), [NP_001028837.1](#)

RefSeq Size: 3280 bp

RefSeq ORF: 2652 bp

Locus ID: 25393

UniProt ID: [P55068](#)

Cytogenetics: 2q34

MW: 96 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]