

Product datasheet for **RN200423**

Bcan (NM_012916) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN200423 representing NM_012916
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATCCCATTGCTTCTGTCCCTGCTGGCAGCTCTGGTCTGACCCAAGCCCCTGCAGCCCTCGCTGATG
 ACCTGAAAGAAGACAGCTCAGAGGATCGAGCCTTTCGGGTGCGCATCGGTGCCGCGCAGCTGCGGGGTGT
 GCTGGGGGTTGCCCTGGCCATCCCATGCCACGTCCACCACCTGAGGCCGCGCCAGCCGCGGGCCGCG
 CCGGGCTTCCCGAGTCAAATGGACCTTCTGTCCGGGACCGGGAGGTGGAGGTGCTGGTGGCGCGG
 GGCTGCGCGTCAAGGTAACGAAGCCTATCGTTCCGCGTGGCGTGCCTGCCTACCCCGCATCGCTCAC
 AGATGTGTCTTTAGTATTGAGCGAACTGCGGCCAATGATTCCGGGTCTATCGCTGCGAGGTCCAGCAC
 GGTATCGACGACAGCAGTGTGTGGAAGTCAAGTCAAAGGGTTCGCTTCTCTACCGAGAGGGCT
 CTGCCCGTATGCTTCTCTTCGCTGGAGCCAGGAAGCCTGTGCTCGCATCGGAGCCGAATTGCCAC
 CCCTGAGCAGCTGTATGTGCCTACCTCGGCGGTATGAACAGTGTGATGCTGGTGGCTGTCCGACCAA
 ACCGTGAGGTACCCCATCCAGAACCACGAGAAGCCTGTTATGGAGACATGGATGGTACCTGGAGTGC
 GGAATTACGGAGTGGTGGTCTGATGATCTCTACGATGTCTACTGTTATGCCGAAGACCTAAATGGAGA
 ACTGTTCTAGGTGCCCCCTCCGGCAAGCTGACGTGGGAGGAGGCTCGGGACTACTGTCTGGAACCGGT
 GCTCAGATCGCTAGCACGGGCCAGCTATACGCGGCATGGAATGGCGGCTTGGACAGATGTAGCCCTGGCT
 GGCTGGCTGATGGCAGTGTGCGTACCCCATCATCACGCCAGCCAACGCTGTGGGGGAGGCTGCCAGG
 AGTCAAGACCCTTCTCTTTCCCAACCAGACTGGCTTCCCAAGCAAGCAGAACCCTTCAATGTCTAC
 TGCTTCCGAGACTCTGCCATCCCTCTGCCTTCTCTGAGGCCCTCCAGCCAGCCTCTGATGGACTAGAGG
 CCATTGTCACAGTGACAGAGAAGCTGGAGGAAGTGCAGTTGCCTCAGGAAGCTGTGGAGAGCGAGTCTCG
 TGGGGCGATCTACTCCATCCCCATCACAGAAGATGGGGGAGGAGGAAGCTTACCCAGAAAGACCCAGCA
 GAGGCCCCAGGACTCCTCTAGAATCAGAAACCAATCCGTTGCCACCCTACCGGGTCTCAGAAGAGG
 AAGGCGAAGCCCTGGAGGAAGAAGAAAGATTCAAAGACACAGAGACTCCGAAGGAAGAGAAGGAGCAGGA
 GAACCTGTGGGTGTGGCCACGGAGCTCAGCAGCCCTCTCCCTACTGGCTTGGAAACAGAGCACTCACTC
 TCCAGGTGTCCCACCAGCCAGGCGAGTCTACAGCTGGGTGCATCACCTTCTCCAGGCTCCAAGGG
 TCCATGGACCGCTGCAGAGACTTTGCAACCCCAAGGGAGGGAAGCCTCACATCTACTCCAGATGGGGC
 AAGAGAAGTAGCGGGGAAACTGGGAGCCCTGAGCTCTCTGGGGTTCCTCGAGAAAGCGAGGAGGCAGGA
 AGCTCCAGCTTGGAGGATGGCCCTTCCCTCTCCAGCGACATGGGCCCTGTGGGTACCAGGGAGCTGG
 AGACCCCTCAGAAGAGAAGTCTGGAAGAACTGTTCTGACAGGCACATCAGTGCAGGCCAGCCAGTGTCT
 GCCACCAGCAGTGCAGCCGAGGTGGAGTGGCTGTGGCTCCCTCATCAGGTAATTCTGCCGAAGGCTCG
 ATGCCCGCTTCTCTTTCTCTCTCCTCCAGCTCTGGGCCACCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_012916
- Insert Size:** 1938 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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

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]

Transcript Variant: This variant (2) lacks multiple exons in the 3' coding region and its 3' terminal exon extends past a splice site that is used in variant 1. The resulting protein (isoform 2) is shorter but has the same N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created using sequences from two different strains, Sprague-Dawley and BN/SsNHsdMCW, because no single transcript from the same strain was available for the full length of the gene.