

Product datasheet for **MG211054**

Bcan (NM_007529) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bcan (NM_007529) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bcan
Synonyms:	Cspg7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG211054 representing NM_007529
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATTCCACTGCTTCTGTCCCTGCTGGCCGCTCTGGTCTGACCCAAGCCCCTGCCGCCCTCGCTGATG
ACCTGAAAGAAGACAGCTCGGAGGATCGAGCCTTCCGCGTGCGCATCGGTGCCACGACAGCTCGGGGCGT
GCTGGGCGGTGCCCTGGCCATCCCATGCCACGTCCACCACCTGCGGCCGCGCACAGTCGCCGGGCCGCG
CCGGGTTTTCCCGGGTCAAGTGGACCTTCTGTCCGGGACCGGGAGGTAGAGTACTGGTGGCTCGTG
GGCTGCGCGTCAAGGTAACGAAGCCTACCGGTTCCGCGTGGCGCTGCCTGCCTACCCCGCATCGCTCAC
GGATGTGTCTCTAGTATTGAGCGAACTGCGGCCAATGATTCCGGGGTCTATCGCTGCGAGGTCCAGCAC
GGTATCGACGACAGCAGTGTGTGGAGGTCAAGGTCAAAGGGTTCGCTTCTCTACAGAGAGGGCT
CTGGCGCTATGCTTTCTCTTTGCTGGAGCCCAGGAAGCCTGCGCTCGCATAGGAGCCCGAATCGCCAC
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ACTGTGAGGTACCCCATCCAGAACCACAGAGGCCTGCTCTGGAGACATGGATGGCTATCTGGCGTGC
GGAACACGGAGTGGTGGTCTGATGATCTCTATGATGTCTACTGTTATGCCGAAGACCTAAATGGAGA
ACTGTTCTAGGCGCCCCTCCCAGCAAGCTGACATGGGAGGAGGCTCGGGACTACTGTCTGGAACGTGGT
GCACAGATCGCTAGCACAGGCCAGCTGTACGCAGCCTGGAATGGTGGCCTGGACAGATGTAGCCCTGGCT
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AGTCAAGACCCTTCTCTTTCCCAACCAGACTGGCTTCCCAGCAAGCAGAACCGCTTCAATGTCTAC
TGCTTCCGAGACTCTGCCATCCCTCTGCTTCTCTGAGGCCCTAGCCAGCCTCAGATGGACTGAGG
CCATTGTCACAGTGACAGAAAAGCTGGAGGAAGTGCAGCTGCCTCAGGAAGCGATGGAGAGCGAGTTCG
TGGGGCCATCTACTCCATCCCCATCTCAGAAGATGGGGGAGGAGGAAGCTCCACCCAGAAGACCCAGCA
GAGGCCCCAGGACTCCGCTAGAATCGGAAACCAATCCATTGCACCACCTACCGAGTCCCTCAGAAGAGG
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TCCGTGGACCGCTGCAGAGACTTGTCTCCCCCGAGGGAGGGAAGCCCCACATCTACTCTGGTGGGGC
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GCCACCAGCAGTGCAGCCACGGTGGAGTGGCTGTGGCTCCCTCATCAGGTGACTGTATCCCCAGCCCC
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GAGGCCCTCAGATTTCTGTGTACCCCGAGGCCCTGGCCGTGCTCTGCGCTCCATGGACGCCCCAGAAG
GACCACGGGGACAGTCTCGAGGCACAGGAAGGCACCGTTGACACCGCCCTCCAGTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211054 representing NM_007529
 Red=Cloning site Green=Tags(s)

MIPLLLSLLAALVLTQAPAAADDLKEDSSEDRAFRVRIGATQLRGVGGALAI PCHVHHLRPPHSRRAA
 PGFPRVKWTF LSGDREVEVLVARGLRVKVNEAYRFRVALPAYPASLTDVSLVLSLRPNDSGVYRCEVQH
 GIDDSSDAVEVKVKGVVFLYREGSARYAFSFAQAQACARIGARIATPEQLYAAYLGGYEQCDAGWSDQ
 TVRYPIQNPREACSGMDGYPGVRNYGVVGPDDLVDVYCYAEDLNGELFLGAPPSKLTWEEARDYCLERG
 AQIASTGQLYAAWNGGLDRCSPGWLADGSVRYPIITPSQRCGGGLPGVKTLFLFPNQTGFPSKQNRFNVY
 CFRDSAHPASSEASSPASDGLEAIVTVTEKLEELQLPQEAMESERGAISYIPISEDGGGGSSTPEDPA
 EAPRTPLESETQSIAPPTESSEEEGVALEEEERFKDLEALEEKEQEDLWVWPRELSSPLPTGSETEHSL
 SQVSPPAQAVLQLGASPSGPPRVRGPPAETLLPPREGSPTSTPGGAREVGGETGSPELSGVPRESEEAG
 SSSLEDGSPLLPATWAPVGPRELETPSEEKSGRTVLAGTSVQAQPVLPDTSASHGGVAVAPSSGDCIPSP
 CHNGGTCL EEKEGFRCLCLPGYGGDLCDVGLHFCSPGWAEAFQGACYKHFSTRRSWEEAESQCRALGAHLT
 SICTPEEQDFVNDRYREYQWIGLNDRTIEGDFLWSDGAPLLYENWNPQQPDSYFLSGENCVVMVWHDQGG
 WSDVPCNYHL SYTCKMGLVSCGPPPQLPLAQIFGRPRLRYAVDVTLYRRCRDGLAQRNLPLIRCQENGLW
 EAPQISCVPRRPGRALRSM DAPEGPRGQLSRHRKAPLTPPSSL

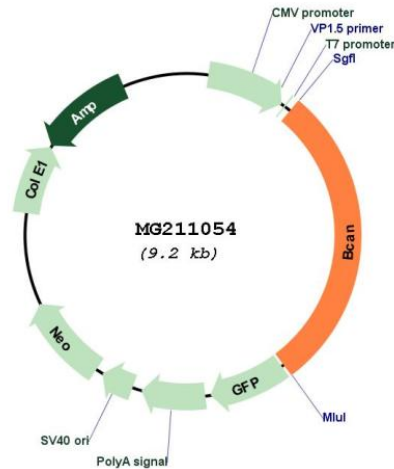
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_007529

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_007529.2](#)

RefSeq Size: 3153 bp

RefSeq ORF: 2652 bp

Locus ID: 12032

UniProt ID: [Q61361](#)

Cytogenetics: 3 38.78 cM

Gene Summary: May play a role in the terminally differentiating and the adult nervous system during postnatal development. Could stabilize interactions between hyaluronan (HA) and brain proteoglycans.[UniProtKB/Swiss-Prot Function]