

Product datasheet for **RC205148**

Brevican (BCAN) (NM_021948) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Brevican (BCAN) (NM_021948) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Brevican
Synonyms:	BEHAB; CSPG7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205148 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCCAGCTGTTCTGCCCTGCTGGCAGCCCTGGTCTGGCCAGGCTCCTGCAGCTTTAGCAGATG
 TTCTGGAAGGAGACAGCTCAGAGGACCGCCTTTTCGCGTGCGCATCGCGGGCGACGCGCCACTGCAGGG
 CGTGCTCGGGCGGCCCTCACCATCCCTTGCCACGTCCACTACCTGCGGCCACCGCCGAGCCGCCGGCT
 GTGCTGGGCTCTCCGCGGGTCAAGTGGACTTTCCTGTCCCGGGCCGGGAGGCAGAGGTGCTGGTGGCGC
 GGGGAGTGCAGTCAAGGTGAACGAGGCCCTACCGGTTCCGCGTGGCACTGCCTGCGTACCCAGCGTCGCT
 CACCGACGTCTCCCTGGCGCTGAGCGAGCTGCGCCCAACGACTCAGGTATCTATCGCTGTGAGGTCCAG
 CACGGCATCGATGACAGCAGCGACGCTGTGGAGGTCAAGGTCAAAGGGTCTGCTTTCTCTACCGAGAGG
 GCTCTGCCGCTATGCTTTCTCTTTCTGGGACCCAGGAGGCCGTGCCCGATTGGAGCCACATCGC
 CACCCCGAGCAGCTCTATGCCGCTACCTTGGGGCTATGAGCAATGTGATGCTGGCTGGCTGTGGAT
 CAGACCGTGAGGTATCCCATCCAGACCCACGAGAGGCCGTGTACGGAGACATGGATGGCTTCCCGGGG
 TCCGGAATATGGTGTGGTGGACCCGGATGACCTCTATGATGTGTACTGTTATGCTGAAGACCTAAATGG
 AGAACTGTTCTGGGTGACCCTCCAGAGAAGCTGACATTGGAGGAAGCACGGGCGTACTGCCAGGAGCGG
 GGTGCAGAGATTGCCACCAGGGCCAATGTATGCAGCCTGGGATGGTGGCCTGGACCACTGCAGCCAG
 GGTGGCTAGCTGATGGCAGTGTGCGCTACCCATCGTACACCCAGCCAGCGCTGTGGTGGGGGCTTGGC
 TGGTGTCAAGACTCTCTCTCTTCCCCAACAGACTGGCTTCCCAATAAGCACAGCCGCTTCAACGTC
 TACTGCTCCGAGACTCGGCCAGCCTTCTGCCATCCCTGAGGCCCTCAACCCAGCCTCAACCCAGCCT
 CTGATGGACTAGAGGCTATCGTACAGTGACAGAGACCCTGGAGGAACTGCAGCTGCCTCAGGAAGCCAC
 AGAGAGTGAATCCCGTGGGGCCATCTACTCCATCCCATCATGGAGGACGGAGGAGGTGGAAGCTCCACT
 CCAAGAAGACCCAGCAGAGGCCCTAGGACGCTCCTAGAATTTGAAACACAATCCATGGTACCGCCACGG
 GTTTCTCAGAAGAGGAAGGTAAGGCATTGGAGGAAGAAGAGAAATATGAAGATGAAGAAGAGAAAGAGGA
 GGAAGAAGAAGAGGAGGAGGTGGAGGATGAGGCTCTGTGGGCA TGGCCAGCGAGCTCAGCAGCCCGGGC
 CCTGAGGCCTCTCTCCCACTGAGCCAGCAGCCAGGAGGAGTCACTCTCCAGGCGCCAGCAAGGGCAG
 TCCTGCAGCCTGGTGCATCACCCTTCTGATGGAGAGTCAGAAGCTTCCAGGCCCTCAAGGGTCCATGG
 ACCACTACTGAGACTCTGCCACTCCCAGGGAGAGGAACCTAGCATCCCATCACCTTCCACTCTGGTT
 GAGGCAAGAGAGGTGGGGAGGCAACTGGTGGTCTGAGCTATCTGGGGTCCCTCGAGGAGAGAGCGAGG
 AGACAGGAAGCTCCGAGGGTGCCCTTCCCTGCTTCCAGCCACACGGGCCCTGAGGGTACCAGGGAGCT
 GGAGGCCCCCTCTGAAGATAATTCTGGAAGAACTGCCCCAGCAGGGACCTCAGTGCAGGCCAGCCAGTG
 CTGCCACTGACAGCGCCAGCCGAGGTGGAGTGGCCGTGGTCCCGCATCAGGTGACTGTGTCCCGAGCC
 CCTGCCAATGGTGGGACATGCTTGGAGGAGGAGGAAGGGTCCGCTGCCTATGTCTGCCTGGCTATGG
 GGGGACCTGTGCGATGTTGGCTCCGCTTCTGCAACCCCGGCTGGGACGCCTTCCAGGGCGCCTGCTAC
 AAGCACTTTTCCACACGAAGGAGCTGGGAGGAGGAGAGACCCAGTCCCGGATGTACGGCGCGCATCTGG
 CCAGCATCAGCACACCCGAGGAACAGGACTTCAACAACCCGGTACCGGGAGTACCAGTGGATCGGACT
 CAACGACAGGACCATCGAAGGCGACTTCTTGGTGGTGGATGGCGTCCCGCTGCTCTATGAGAACTGGAAC
 CCTGGGCAGCCTGACAGCTACTTCTGTCTGGAGAGAAGTGCCTGGTTCATGGTGGCATGATCAGGGAC
 AATGGAGTGACGTGCCCTGCAACTACCCTGTCTACACCTGCAAGATGGGGCTGGTGTCTGTGGGCC
 GCCACCGAGCTGCCCTGGCTCAAGTGTTCGGCCGCCACGGCTGCGCTATGAGGTGGACACTGTGCTT
 CGTACCGGTGCCGGAAGGACTGGCCAGCGCAATCTGCCGCTGATCCGATGCCAAGAGAACGGTCTGT
 GGGAGGCCCCAGATCTCTGTGTGCCAGAAGACTGCCCGAGCTCTGCACCCAGAGGAGGCCAGAG
 AGGACGTCAGGGGAGGCTACTGGACGCTGGAAGGCGCTGTTGATCCCCCTTCCAGCCCATGCCAGGT
 CCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205148 protein sequence
 Red=Cloning site Green=Tags(s)

MAQLFLPLLAALVLAQAPAALADVLEGDSSDRAFRVRIAGDAPLQGVGGALTI PCHVHYLRPPPSRRA
 VLGSPRVKWTFLSRGREAEVLVARGVRVKVNEAYRFRVALPAYPASLTDVSLALSELRPNDSGIYRCEVQ
 HGIDSSDAVEVKVKGVVFLYREGSARYAFSFGTQEACARI GAHIATPEQLYAAYLGGYEQCDAGWLS
 QTVRYPIQTPREACYGDMDFPGVRNYGVVDPDDLVDVYCYAEDLNGELFLGDPPEKLTLEEARAYCQER
 GAEIATTGQLYAAWDGGLDHCSPGWLADGVSRYPIVTPSQRCGGGLPGVKTLFLFPNQTGFPNKHSRFNV
 YCFRDSAQPSAIPASNPNASPDGLEAIVTVTETLEELQLPQEATESESRGAIYSIPIMEDGGGGSSST
 PEDPAEAPRTLLEFETQSMVPPTGFSEEEGKALEEEEEYEDEEEKEEEEEEEEEVEDEALWAWPSELSSPG
 PEASLPTEPAAQEESLSQAPARAVLQPGASPLPDGESEASRPPRVHGPPTETLPTPRERNLASPSSTLV
 EAREVGEATGGPEL SGVPRGESEETGSSEGAPSLPATRAPEGTRELEAPSEDNSGRTAPAGTSVQAQPV
 LPTDSASRGGVAVVPASGDCVSPCHNGGTCLEEEEGVRCLCLPGYGGDLCDVGLRFCNPGWDAFQGACY
 KHFFSTRSWEAEATQCRMYGAHLASISTPEEQDFINNRYREYQWIGLNDRTIEGDFLWSDGVPLLYENWN
 PGQPD SYFLSGENCVMVWHQDQWSDVPCNYHLSYTKMGLVSCGPPPELPLAQVFGRPRLRYEVDTVL
 RYRCREGLAQRNLPLIRCQENGRWEAPQISCVPRRPARALHPEEDPEGRQRLLGRWKALLIPSSPMPG
 P

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6695_g12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



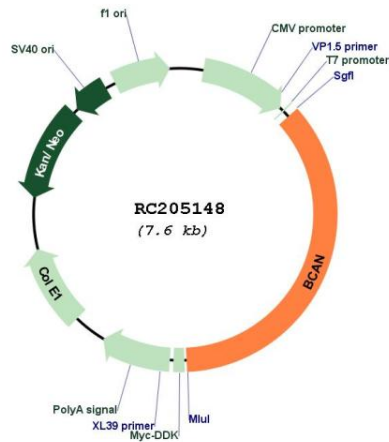
* The last codon before the Stop codon of the ORF

ACCN: NM_021948

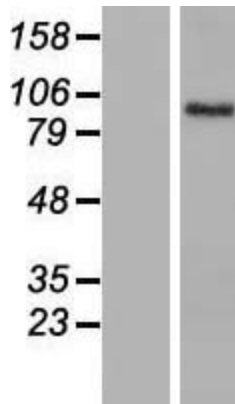
ORF Size: 2733 bp

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:	<ol style="list-style-type: none"> 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_021948.5
RefSeq Size:	3470 bp
RefSeq ORF:	2736 bp
Locus ID:	63827
UniProt ID:	Q96GW7
Cytogenetics:	1q23.1
Domains:	CCP, Xlink, CLECT, ig, IGv, IG, EGF, EGF
Protein Families:	Secreted Protein
MW:	99.1 kDa
Gene Summary:	This gene encodes a member of the lectican family of chondroitin sulfate proteoglycans that is specifically expressed in the central nervous system. This protein is developmentally regulated and may function in the formation of the brain extracellular matrix. This protein is highly expressed in gliomas and may promote the growth and cell motility of brain tumor cells. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RC205148



Western blot validation of overexpression lysate (Cat# [LY411826]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205148 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).