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Product datasheet for RC200943

BEGAIN (NM_020836) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BEGAIN (NM_020836) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BEGAIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC200943 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGAAACTCAGCGCGCTGCAGGAGCAGAAGGGCGAGCTGCGCAAGCGGCTGTCCTACACCACACACA
AGCTCGAGAAGCTCGAGACCGAGTTCGACTCCACGCGCCACTACCTGGAGATCGAGCTGCGGCGCGCGCA
GGAGGAACTGGAGAAGGTCACGGAGAAGCTGCGCAGGATTCAGAGCAACTACATGGCACTGCAGAGGATC
AACCAGGAGCTGGAGGACAAGCTGTACCGCATGGGCCAGCACTATGAGGAGGAGAAGCGTGCGCTGAGCC
ACGAGATTGTTGCCCTCAACAGCCATCTGCTAGAAGCCAAGGTGACCATCGACAAGCTGTCAGAGGACAA
CGAGCTCTATAGGAAGGACTGCAATCTAGCGGCCCAGCTGCTGCAGTGCAGCCAGACCTACGGCAGGGTC
CACAAGGTGTCTGAGCTGCCCTCGGATTTCCAGGAGCGCGTGAGCCTGCACATGGAGAAGCACGGCTGCA
GCCTGCCATCCCCGCTCTGCCACCCGGCCTACGCCGACAGCGTCCCCACCTGCGTCATTGCCAAGGTGCT
GGAGAAGCCGGACCCCGCCAGCCTGTCCTCCCGCCTGTCCGATGCCTCCGCCCGCGACCTGGCCTTCTGC
GACGGGGTGGAGAAACCAGGCCCGCGGCCCCCCTACAAGGGAGACATCTACTGCAGTGACACAGCCCTCT
ACTGCCCGGAGGAGCGGCGGCGAGACCGGCGGCCTAGCGTGGACGCGCCCGTGACCGACGTGGGCTTCCT
GCGGGCCCAGAACTCCACTGACAGCGCGGCCGAGGAGGAGGAGGAGGCCGAGGCGGCGGCCTTCCCGGCG
GGCTTCCAGCATGAGGCCTTCCCCAGCTACGCAGGCTCACTGCCCACGTCCAGCTCCTACTCCAGCTTCA
GCGCCACGTCGGAGGAGAAGGAGCACGCGCAGGCCAGCACGCTGACCGCGTCGCAGCAGGCCATCTACCT
GAACAGCCGCGACGAGCTCTTCGACCGCAAGCCACCCGCCACCACCTACGAGGGCAGCCCTCGCTTTGCC
AAGGCCACGGCCGCGGTGGCGGCCCCGCTGGAGGCCGAAGTGGCCCCAGGCTTCGGGCGGACCATGTCAC
CGTACCCGGCCGAGACCTTCCGCTTCCCGGCCTCTCCGGGTCCCCAGCAGGCCCTGATGCCCCCAAACCT
GTGGAGCCTGCGGGCCAAGCCGGGGACCGCCCGGCTCCCCGGGGAGGACATGAGGGGCCAGTGGCGTCCC
CTGAGCGTGGAGGACATCGGCGCCTACTCCTACCCCGTGAGCGCTGCCGGCCGCGCCTCACCCTGCAGCT
TCTCTGAACGCTACTACGGCGGGGCCGGGGGCAGCCCGGGCAAGAAGGCCGACGGCCGCGCCAGCCCGCT
CTACGCCAGCTACAAGGCCGACAGCTTCTCCGAGGGGGACGACCTCTCCCAGGGCCACCTGGCAGAGCCC
TGCTTCCTGCGGGCGGGCGGCGACCTGAGCCTCAGTCCCGGCCGCTCGGCTGACCCACTGCCCGGCTATG
CACCCAGCGAGGGGGGGGACGGGGACAGGCTCGGGGTGCAGCTGTGTGGGACCGCCAGCAGCCCTGAGCC
CGAGCAGGGTTCCAGGGACTCCTTGGAGCCGAGCTCCATGGAGGCCTCCCCGGAAATGCATCCTGCCGCC
CGCCTCAGCCCCCAGCAGGCCTTTCCGCGGACTGGTGGCTCGGGGCTGAGCCGCAAGGACAGCCTCACCA
AGGCCCAGCTCTACGGAACCTTGCTCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200943 protein sequence
Red=Cloning site Green=Tags(s)

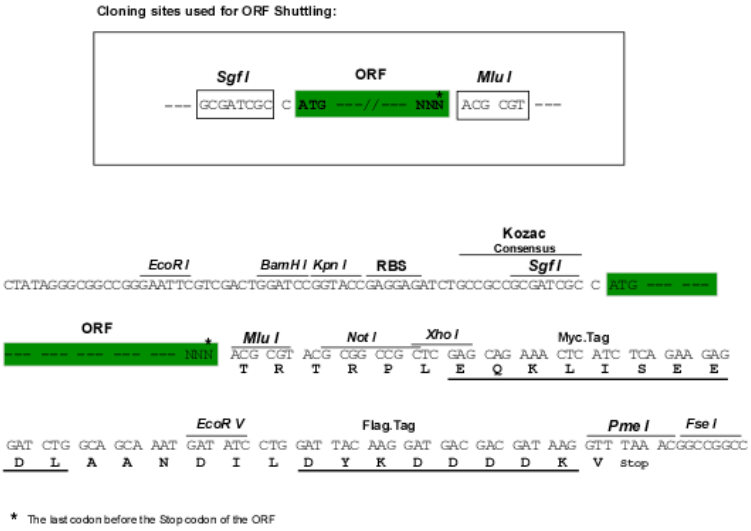
MEKLSALQEQKGELRKRLSYTTHKLEKLETEFDSTRHYLEIELRRAQEELEKVTEKLRRIQSNYMALQRI
NQELEDKLYRMGQHYEEEKRALSHEIVALNSHLLEAKVTIDKLSEDNELYRKDCNLAAQLLQCSQTYGRV
HKVSELPSDFQERVSLHMEKHGCSLPSPLCHPAYADSVPTCVIAKVLEKPDPASLSSRLSDASARDLAFC
DGVEKPGPRPPYKGDIYCSDTALYCPEERRRDRRPSVDAPVTDVGFLRAQNSTDSAAEEEEEAEAAAFPA
GFQHEAFPSYAGSLPTSSSYSSFSATSEEKEHAQASTLTASQQAIYLNSRDELFDRKPPATTYEGSPRFA
KATAAVAAPLEAEVAPGFGRTMSPYPAETFRFPASPGPQQALMPPNLWSLRAKPGTARLPGEDMRGQWRP
LSVEDIGAYSYPVSAAGRASPCSFSERYYGGAGGSPGKKADGRASPLYASYKADSFSEGDDLSQGHLAEP
CFLRAGGDLSLSPGRSADPLPGYAPSEGGDGDRLGVQLCGTASSPEPEQGSRDSLEPSSMEASPEMHPAA
RLSPQQAFPRTGGSGLSRKDSLTKAQLYGTLLN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6582_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020836

ORF Size: 1779 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

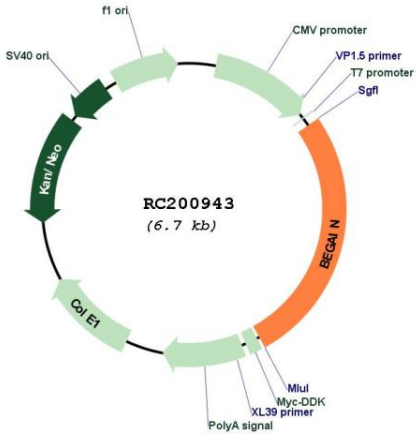
RefSeq: NM_020836.4

RefSeq Size: 2689 bp

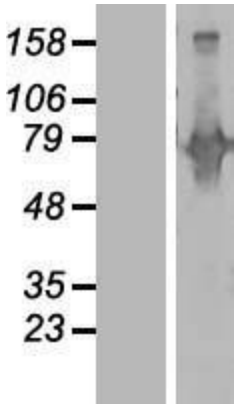
RefSeq ORF: 1782 bp

Locus ID:	57596
UniProt ID:	Q9BUH8
Cytogenetics:	14q32.2
Protein Families:	Druggable Genome
MW:	64.8 kDa
Gene Summary:	May sustain the structure of the postsynaptic density (PSD).[UniProtKB/Swiss-Prot Function]

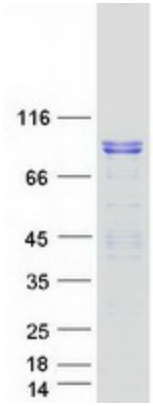
Product images:



Circular map for RC200943



Western blot validation of overexpression lysate (Cat# [LY431998]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC228971] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BEGAIN protein (Cat# [TP300943]). The protein was produced from HEK293T cells transfected with BEGAIN cDNA clone (Cat# RC200943) using MegaTran 2.0 (Cat# [TT210002]).