

Product datasheet for RC228017

BDKRB1 (NM_000710) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BDKRB1 (NM_000710) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BDKRB1
Synonyms:	B1BKR; B1R; BKB1R; BKR1; BRADYB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228017 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCATCATCTGGCCCCCTCTAGAGCTCCAATCCTCCAACCAGAGCCAGCTCTTCCCTCAAATGCTA
CGGCTGTGACAATGCTCCAGAAGCCTGGGACCTGCTGCACAGAGTGCTGCCGACATTTATCATCTCCAT
CTGTTTCTTCGGCCTCTAGGGAACCTTTTGCCTGTTGGTCTTCTCCTGCCCGGGCAACTGAAC
GTGGCAGAAATCTACCTGGCCAACCTGGCAGCCTCTGATCTGGTGTGGTCTTGGCTTGCCTTCTGGG
CAGAGAATATCTGGAACAGTTAACTGGCCTTTCGGAGCCCTCCTCTGCCGTGCATCAACGGGGTCAT
CAAGGCCAATTTGTTTCATCAGCATCTTCTGGTGGTGGCCATCAGCCAGGACCGCTACCGCGTGGTGGT
CACCCTATGGCCAGCCGAGGCAGCAGCGGGGAGGCAGGCCCGGGTCACTGCGTGCATCTGGGTTG
TGGGGGGCCTCTTGGCATCCCCACATTCTGCTGCGATCCATCCAAGCCGTCCCAGATCTGAACATCAC
CGCCTGCATCCTGCTCCTCCCCATGAGGCCTGGCACTTTGCAAGGATTGTGGAGTTAAATATTCTGGGT
TTCCTCTACCACTGGCTGCGATCGTCTTCTCAACTACCACATCCTGGCCTCCTGCGAACCGGGGAGG
AGGTCAGCAGGACAAGGTGCGGGGGCCGAAGGATAGCAAGACCACAGCGCTGATCCTCACGCTCGTGGT
TGCCTTCTGGTCTGCTGGGCCCTTACCACTTCTTGCCTTCTTGAATTCTTATTCCAGGTGCAAGCA
GTCCGAGGCTGCTTTGGGAGGACTTCATTGACCTGGGCTGCAATTGGCCAATCTTTGCCTTCACTA
ACAGCTCCTGAATCCAGTAATTTATGTCTTGTGGGCCGCTCTCAGGACCAAGGTCTGGGAACCTTA
TAAACAATGCACCCTAAAAGTCTTGTCCAATATCTTATCCCATAGGAAAGAAATCTTCCAACCTTTTC
TGGCGGAAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC228017 protein sequence
Red=Cloning site Green=Tags(s)

MASSWPPELEQSSNQSFLFPQNATACDNAPEAWDLLHRVLPFTFIISICFFGLLGNLFVLLVFLPRRLN
 VAEIYLANLAASDLVFLGLPFWAENIWNQFNWPFALLCRVINGVIKANLFIIFLVVAISQDRYRVLV
 HPMASRRQRRRQARVTCVLIIWVGGLLSIPTFLLRSIQAVPDLNITACILLPHEAWHFARIVELNIG
 FLLPLAAIVFFNYHILASLRTREEVSRTRCGGRKSKTTALILTLVVAFLVCWAPYHFFAFLEFLFQVQA
 VRGCFWEDFIDLGLQLANFFAFTNSLNPVIYVFGRLFRTRKRWELKQCTPKSLAPISSSHRRKEIFQLF
 WRN

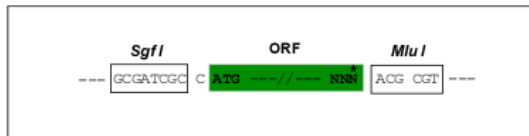
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6014_h04.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_000710

ORF Size: 1487 bp

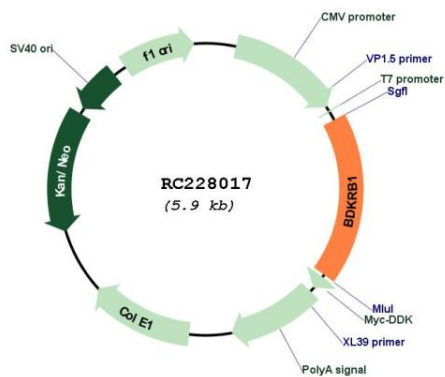
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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_000710.4
RefSeq Size:	1319 bp
RefSeq ORF:	1062 bp
Locus ID:	623
UniProt ID:	P46663
Cytogenetics:	14q32.2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Complement and coagulation cascades, Neuroactive ligand-receptor interaction, Regulation of actin cytoskeleton
MW:	40.5 kDa
Gene Summary:	Bradykinin, a 9 aa peptide, is generated in pathophysiologic conditions such as inflammation, trauma, burns, shock, and allergy. The protein encoded by this gene belongs to the G-protein coupled receptor 1 family. Two types of G-protein coupled receptors have been found which bind bradykinin and mediate responses to these pathophysiologic conditions. The protein encoded by this gene is one of these receptors and is synthesized de novo following tissue injury. Receptor binding leads to an increase in the cytosolic calcium ion concentration, ultimately resulting in chronic and acute inflammatory responses. [provided by RefSeq, Aug 2020]

Product images:



Circular map for RC228017