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Product datasheet for RG204436

BDKRB1 (NM_000710) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BDKRB1 (NM_000710) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BDKRB1
Synonyms:	B1BKR; B1R; BKB1R; BKR1; BRADYB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG204436 representing NM_000710
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCATCATCCTGGCCCCCTCTAGAGCTCCAATCCTCCAACCAGAGCCAGCTCTTCCCTCAAAATGCTA
CGGCCTGTGACAATGCTCCAGAAGCCTGGGACCTGCTGCACAGAGTGCTGCCGACATTTATCATCTCCAT
CTGTTTCTTCGGCCTCCTAGGGAACCTTTTTGTCCTGTTGGTCTTCCTCCTGCCCCGGCGGCAACTGAAC
GTGGCAGAAATCTACCTGGCCAACCTGGCAGCCTCTGATCTGGTGTTTGTCTTGGGCTTGCCCTTCTGGG
CAGAGAATATCTGGAACCAGTTTAACTGGCCTTTCGGAGCCCTCCTCTGCCGTGTCATCAACGGGGTCAT
CAAGGCCAATTTGTTCATCAGCATCTTCCTGGTGGTGGCCATCAGCCAGGACCGCTACCGCGTGCTGGTG
CACCCTATGGCCAGCCGGAGGCAGCAGCGGCGGAGGCAGGCCCGGGTCACCTGCGTGCTCATCTGGGTTG
TGGGGGGCCTCTTGAGCATCCCCACATTCCTGCTGCGATCCATCCAAGCCGTCCCAGATCTGAACATCAC
CGCCTGCATCCTGCTCCTCCCCCATGAGGCCTGGCACTTTGCAAGGATTGTGGAGTTAAATATTCTGGGT
TTCCTCCTACCACTGGCTGCGATCGTCTTCTTCAACTACCACATCCTGGCCTCCCTGCGAACGCGGGAGG
AGGTCAGCAGGACAAGGTGCGGGGGCCGCAAGGATAGCAAGACCACAGCGCTGATCCTCACGCTCGTGGT
TGCCTTCCTGGTCTGCTGGGCCCCTTACCACTTCTTTGCCTTCCTGGAATTCTTATTCCAGGTGCAAGCA
GTCCGAGGCTGCTTTTGGGAGGACTTCATTGACCTGGGCCTGCAATTGGCCAACTTCTTTGCCTTCACTA
ACAGCTCCCTGAATCCAGTAATTTATGTCTTTGTGGGCCGGCTCTTCAGGACCAAGGTCTGGGAACTTTA
TAAACAATGCACCCCTAAAAGTCTTGCTCCAATATCTTCATCCCATAGGAAAGAAATCTTCCAACTTTTC
TGGCGGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

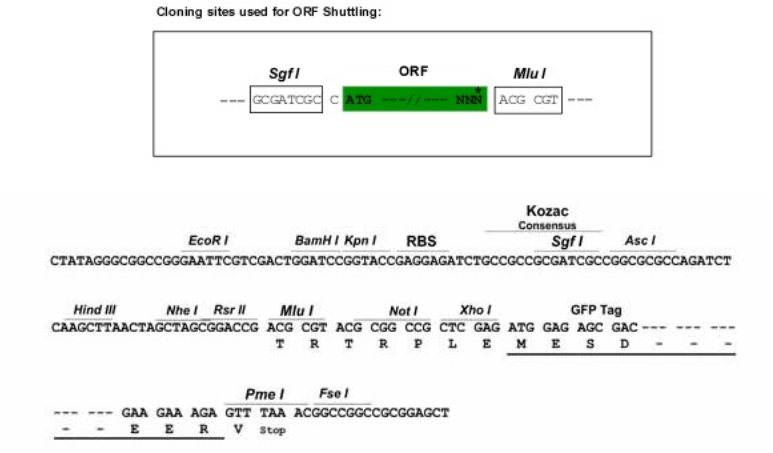
>RG204436 representing NM_000710
Red=Cloning site Green=Tags(s)

MASSWPPLELQSSNQSQLFPQNATACDNAPEAWDLLHRVLPTFIISICFFGLLGNLFVLLVFLLPRRQLN
VAEIYLANLAASDLVFVLGLPFWAENIWNQFNWPFGALLCRVINGVIKANLFISIFLVVAISQDRYRVLV
HPMASRRQQRRRQARVTCVLIWVVGGLLSIPTFLLRSIQAVPDLNITACILLLPHEAWHFARIVELNILG
FLLPLAAIVFFNYHILASLRTREEVSRTRCGGRKDSKTTALILTLVVAFLVCWAPYHFFAFLEFLFQVQA
VRGCFWEDFIDLGLQLANFFAFTNSSLNPVIYVFVGRLFRTKVWELYKQCTPKSLAPISSSHRKEIFQLF
WRN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000710

ORF Size: 1059 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_000710.2, NP_000701.2

RefSeq Size: 1307 bp

RefSeq ORF: 1062 bp

Locus ID: 623

UniProt ID: P46663

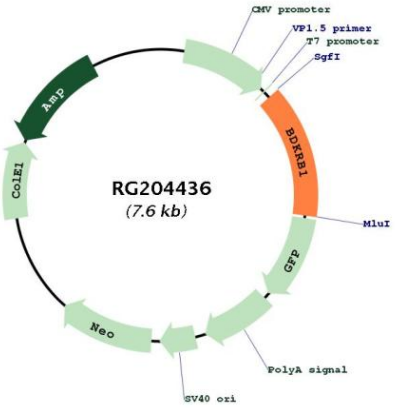
Cytogenetics: 14q32.2

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Complement and coagulation cascades, Neuroactive ligand-receptor interaction, Regulation of actin cytoskeleton

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 RG204436