

Product datasheet for **RG210378**

BDKRB2 (NM_000623) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BDKRB2 (NM_000623) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BDKRB2
Synonyms:	B2R; BK-2; BK2; BKR2; BRB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210378 representing NM_000623 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCTCTCCCTGGAAGATATCAATGTTTCTGTCTGTTCTGAGGACTCCGTGCCACCACGGCCTCTT
TCAGCGCCGACATGCTCAATGTCACCTTGAAGGGCCACTCTTAACGGGACCTTTGCCAGAGCAAATG
CCCCAAGTGGAGTGGCTGGCTCAACACCATCCAGCCCCCTTCTCTGGGTGCTGTTCTGTGCTG
GCCACCCTAGAGAACATCTTTGCTCCTCAGCGTCTTCTGCCTGCACAAGAGCAGCTGCACGGTGGCAGAGA
TCTACCTGGGAACTGGCCGACGAGACTGATCCTGGCTGCGGGCTGCCCTTCTGGCCATCACCAT
CTCCAACAACCTTCGACTGGCTCTTTGGGAGACGCTCTGCCGCGTGGTGAATGCCATTATCTCCATGAAC
CTGTACAGCAGCATCTGTTTCTGATGCTGGTGAACATCGACCGTACCTGGCCCTGGTGAACACCATGT
CCATGGGCGGATGCGCGGCGTGCCTGGGCAAGCTCTACAGCTTGGTGAATCTGGGGGTGACGCTGCT
CCTGAGCTCACCCATGCTGGTGTCCGGACATGAAGGAGTACAGCGATGAGGGCCACAACGTCACCGCT
TGTGTCATCAGCTACCCATCCCTCATCTGGGAAGTGTTCACCAACATGCTCCTGAATGTCGTTGGCTTCC
TGCTGCCCTGAGTGTATCACCTTCTGCACGATGCAGATCATGCAGGTGCTGCGGAACAACGAGATGCA
GAAGTTCAAGGAGATCCAGACGGAGAGGAGGGCCACGGTGTAGTCTGGTTGTGCTGCTGCTATTATC
ATCTGTGGCTGCCCTTCCAGATCAGCACCTTCTGGATACGCTGCATCGCCTCGGCATCCTCTCCAGCT
GCCAGGACGAGCGATCATCGATGTAATCACACAGATCGCTCCTTCATGGCCTACAGCAACAGCTGCCT
CAACCCACTGGTGTACGTGATCGTGGGCAAGCGCTTCCGAAAGAAGTCTTGGGAGGTGTACCAGGGAGTG
TGCCAGAAAGGGGCTGCAGGTCAGAACCCATTAGATGGAGAATCCATGGGCACACTGCGGACCTCCA
TCTCCGTGGAACGCCAGATTCACAACTGCAGGACTGGGCAGGGAGCAGACAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210378 representing NM_000623
 Red=Cloning site Green=Tags(s)

MFSPWKISMFLSVREDSVPTTASFADMLNVTLQGPTLNGTFAQSKCPQVEWLGWLNTIQPPFLWVLFVL
 ATLENIFVLSVFCLHKSSCTVAEIIYLGNLAAADLILACGLPFWAITISNNFDWLFGETLCRVVNAIISMN
 LYSSICFLMLVSDRYLALVKTMSMGRMRGVRWAKLYSLVIWGCTLLSSPMLVFRMKEYSDEGHNVTA
 CVISYPSLIWEVFTNMLLNVVGFLLPLSVITFCTMQIMQVLRNNEMQKFKEIQTERRATVLLVLLLLFI
 ICWLPFQISTFLDLHRLGILSSCQDERIIDVITQIASFMAYSNSCLNPLVYVIVGKRFRKKSWEVYQGV
 CQKGGCRSEPIQMENSMTLRTSISVERQIHKLQDWAGSRQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000623

ORF Size: 1173 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_000623.2](#), [NP_000614.1](#)

RefSeq Size: 4267 bp

RefSeq ORF: 1176 bp

Locus ID: 624

UniProt ID: [P30411](#)

Cytogenetics: 14q32.2

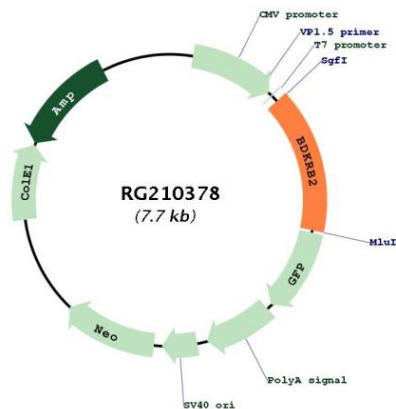
Domains: 7tm_1

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: This gene encodes a receptor for bradykinin. The 9 aa bradykinin peptide elicits many responses including vasodilation, edema, smooth muscle spasm and pain fiber stimulation. Bradykinin is released upon activation by pathophysiologic conditions such as trauma and inflammation, and binds to its kinin receptors, B1 and B2. The B2 receptor associates with G proteins that stimulate a phosphatidylinositol-calcium second messenger system. [provided by RefSeq, Apr 2020]

Product images:



Circular map for RG210378