

KKRKSSLRRWSPLTPRQMSFDC Final concentration: 300 μ M

MRC PPU REAGENTS

Clone Data Sheet

PRKG2 [1 - 762]

Protein PRKG2 [1 - 762]

Clone number DU 26294

Species Human

Accession number Q13237.1

Tags N-terminal His6

**Baculovirus
expressed protein**

MSYYHHHHHHHDYDIPTTENLYFQGAMGSMGNGSVKPKHSHKHPDGHSGN
LTTDALRNKVTELERELRRKDAEIQEREYHLKELREQLSKQTVIAIAEL
TEELQNKCIQLNKLQDVVHMQGGSPLOASPDKVPLEVHRKTSGLVSLH
SRRGAKAGVSAEPTTRTYDLNKPPEFSFEKARVRKDSSEKKLITDALN
KNQFLKRLDPQQIKDMVECMYGRNYQQGSYIIKQGEPPGNHIFVLAAGR
LEVFOGEKLLSSIPMWTTFGELAILYNCTRTASVKAITNVKTWALDRE
VFQNIIMRRTAQARDEQYRNFLRSVSLKLNLPEDKLTKIIDCLEVEYYD
KGDYIIREGEEGSTFFILAKGKVKTQSTEGHDQPQLIKTLQKGEYFG
EKALISDDVRSANIIAEENDVACLVIDRETFNQTVGTFEELQKYLEGY
VANLNRDDEKRHAKRSMSNWKLSKALSLEMIQLKEKVARFSSSSPFQNL
LEIIATLGVGGFGRVELVKVKNENVAFAMKCIKKKHIVDTKQQEHVYS
EKRILEELCSPFIVKLYRTFKDNKYVYMLLEACLGGELWSILRDRGSF
DEPTSKFCVACVTEAFDYLHRLGIIYRDLKPENLILDAEGYLKLVDFG
FAKKIGSGQKTWTFCGTPEYVAPEVILNKGHDFSVDWFSLGILVYELL
TGNPPFSGVDQMMTYNLILKGIEKMDFPRKITRRPEDLIRRLCRQNPT
ERLGNLKNNGINDIKKRWLNNGFNWEGLKARSLPSPLQRELKGPIDHSY
FDKYPPEKGMPPDELSGWDKDF

Native sequence Amino acids M1 – F762 (end) of human PRKG2.

Residue M29 of the fusion protein is equivalent to M1 of the native enzyme. The His6 tag is located at residues 5 – 10.

Protease cleavage rTEV (ENLYFQG) residues 18 – 24

Cloning sites *Bgl*II and *Not*I into *Bam*H1 and *Not*I sites of pFastBac HTb

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Complete Nucleotide Sequence

ATGGGAAATGGTTCAGTGAAACCTAAACATTCTAAGCACCCAGATGGA
CACTCTGGGAACCTCACCAGTATGCTCTGCGGAACAAGGTGACAGAG
CTGGAGAGAGAGTGTGAGGAGGAAGGATGCTGAGATCCAGGAGCGGGAG
TACCATTTGAAGGAGCTGCGGGAGCAGCTGTCTGAAGCAGACTGTGGCC
ATTGCTGAACTCACAGAGGAGCTCCAGAACAAGTGCATCCAGCTGAAC
AAGCTGCAGGATGTGGTGCATATGCAGGGAGGAAGCCCGCTTCAGGCC
TCTCCAGATAAAGTGCCTCTTGAGGTCCACCGGAAGACCTCTGGATTG
GTCTCTCTCCATAGCAGGAGGGGAGCAAAGGCTGGCGTGTCTGCTGAG
CCAACAACCCGGACCTATGACCTGAACAAACCCCTGAATTTTCCTTT
GAGAAAGCAAGAGTCAGAAAAGACTCCAGTGAGAAGAAGCTCATTACA
GATGCCCTTAATAAAAATCAGTTTCTGAAAAGACTGGATCCTCAGCAG
ATCAAAGACATGGTGGAATGCATGTATGGGAGAACTATCAGCAAGGG
AGTTACATTATTAAGCAAGGAGAACCAGGAAACCATATCTTTGTGCTG
GCAGAGGGTTCGACTAGAGGTGTTCCAAGGGGAGAAATTGCTGTCCTCC
ATCCCTATGTGGACCACATTTGGGGAGCTTGCCATTTTATACAATTGT
ACAAGGACTGCCTCTGTGAAAGCTATTACCAATGTTAAAACATGGGCA
CTAGATCGAGAGGTATTCCAGAATATAATGAGGAGGACAGCCCAAGCT
AGAGATGAACAATACAGAACTTCCTCAGAAGTGTATCCTTGCTGAAG
AATTTACCTGAAGATAAATTAACCAAGATCATTGACTGCTTGGAAGTG
GAATACTATGACAAAGGAGATTACATCATTAGAGAGGGCGAGGAAGGA
AGTACCTTTTTTCATTTTGGCAAAAGGAAAGGTAAAAGTAACACAGAGC
ACAGAAGGCCATGATCAACCACAGCTGATAAAAACACTGCAGAAAGGA
GAATACTTTGGAGAAAAGCTCTTATCAGTGATGATGTCAGGTCAGCT
AACATTATTGCTGAAGAAAATGATGTTGCATGCCTGGTTATAGATCGA
GAAACATTCAACCAAACCTGTCGGTACATTTGAAGAGCTGCAAAAATAC
CTTGAAGGATATGTGGCAAACCTGAACCGTGATGATGAAAAAAGACAT
GCGAAGCGGTCCATGTCTAACTGGAAGCTGTCCAAAGCACTCTCTCTG
GAAATGATTGAGCTGAAGGAGAAGGTGGCCAGATTTTCCTCATCATCC
CCATTCCAGAACCTTGAGATTATTGCAACACTGGGCGTTGGTGGGTTT
GGAAGAGTTGAGCTTGTTAAAGTAAAAAATGAGAATGTTGCTTTTGCT
ATGAAGTGTATAAGGAAGAAGCACATAGTTGACACCAAGCAGCAGGAG
CATGTCTACTCAGAGAAGAGGATCCTAGAGGAGCTGTGCTCTCCATTC
ATTGTGAAATTATATCGTACTTTCAAGGACAATAAGTATGTATACATG
CTTCTGGAGGCCTGCTTAGGTGGGGAGCTCTGGAGTATATTAAGGGAC
AGAGGCAGCTTTGATGAACCCACCTCCAAATCTGCGTTGCTTGTGTG
ACAGAAGCATTGATTACCTGCATCGACTAGGTATTATCTACAGAGAC
TTGAAACCAGAAAACCTTAATTCTAGATGCTGAGGGTTACCTTAAATTG
GTTGACTTTGGATTGCGAAGAAAATAGGGTCTGGACAGAAAACATGG
ACATTCTGTGGGACTCCAGAATATGTAGCTCCTGAAGTCATTCTCAAC
AAGGGACATGACTTCAGTGTGGATTTCTGGTCACTGGGAATTCTAGTG
TATGAGCTCCTAACGGGCAACCCACCCTTTTCTGGGGTTGACCAAATG
ATGACCTACAATTTGATTCTCAAAGGAATTGAAAAAATGGATTTTCCC
AGGAAGATAACACGACGACCTGAGGATTTGATTTCGGAGGCTTTGCAGG
CAAAATCCAACAGAAAGGCTGGGAAATCTGAAGAATGGAATAAATGAC
ATTAAGAAACACAGGTGGTTAAATGGTTTTAATTGGGAGGGACTGAAA
GCACGGAGCCTTCCATCACCTTTGCAAAGAGAGCTCAAGGGACCCATA
GATCACAGCTACTTTGACAAATATCCTCCTGAAAAGGGAATGCCTCCA
GATGAGCTATCAGGCTGGGATAAAGACTTctgagcgggccgc

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