

Product datasheet for **RG237381**

CGK2 (PRKG2) (NM_001282482) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | CGK2 (PRKG2) (NM_001282482) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | PRKG2 |
| Synonyms: | cGK2; cGKII; PKG2; PRKGR2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG237381 representing NM_001282482. Blue=ORF Red=Cloning site Green=Tag(s) |

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GCTCGTTTGTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCTAACTGGAAGCTGTCAAAGCACTCTCTGAAATGATTCAGCTGAAGGAGAAGGTTAAAGTA
AAAAATGAGAATGTTGCTTTTGCTATGAAGTGATAAGGAAGAAGCACATAGTTGACACCAAGCAGCAG
GAGCATGTCTACTCAGAGAAGAGGATCCTAGAGGAGCTGTGCTCTCCATTCATTGTGAAATTATATCGT
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GATTACCTGCATCGACTAGGTATTATCTACAGAGACTTGAACCAGAAACTTAATTCTAGATGCTGAG
GGTTACCTAAATTTGGTTGACTTTGGATTTGCGAAGAAAATAGGGTCTGGACAGAAAACATGGACATTC
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AATGACATTAAGAAACACAGGTGGTTAAATGGTTTTAATGGGAGGGACTGAAAGCACGGAGCCTTCCA
TCACCTTTGCAAAGAGAGCTCAAGGGACCCATAGATCACAGCTACTTTGACAAATATCCTCCTGAAAA
GGAATGCCTCCAGATGAGCTATCAGGCTGGGATAAAGACTTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237381
 Blue=ORF Red=Cloning site Green=Tag(s)

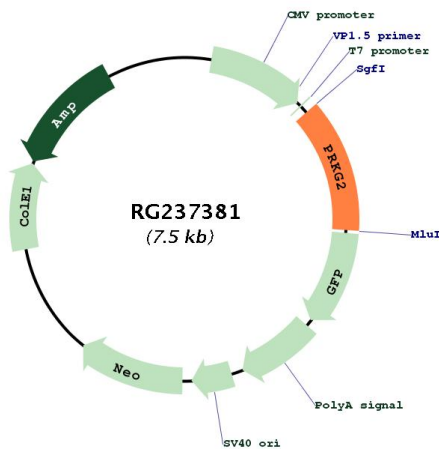
MSNWKSKALSLEMIQLKEKVKVKNENAFAMKCIKKKHIVDTKQQEHVYSEKRILEELCSPIVVKLYR
 TFKDNKYVYMLLEACLGELWSILRDRGSFDEPTSKFCVACVTEAFDYLHRLGIIYRDLKPENILDAE
 GYLKLVDFGFAGKIGSGQKTWTFCGTPEYVAPEVILNKGHDFSVDFWSLILVYELLTGNPPFSGVDQM
 MTYNLILKGIEMDFPRKITRRPEDLIRRLCRQNPTERLGNLKNGINDIKKHRWLNNGFNWEGLKARSLP
 SPLQRELKGPIDHSYFDKYPPKMGPPDELSGWDKDF
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282482

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|--------------------------|---|
| ORF Size: | 939 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). |
| RefSeq: | NM_001282482.1 , NP_001269411.1 |
| RefSeq Size: | 3684 bp |
| RefSeq ORF: | 942 bp |
| Locus ID: | 5593 |
| UniProt ID: | Q13237 |
| Cytogenetics: | 4q21.21 |
| Protein Families: | Druggable Genome, Protein Kinase |
| Protein Pathways: | Gap junction, Long-term depression, Olfactory transduction |
| MW: | 36.9 kDa |
| Gene Summary: | This gene encodes a protein that belongs to the serine/threonine protein kinase family of proteins. The encoded protein binds to and inhibits the activation of several receptor tyrosine kinases. The membrane-bound protein is a regulator of intestinal secretion, bone growth and renin secretion. Alternate splicing results in multiple transcript variants encoding distinct isoforms whose regulatory N-termini differ in length but whose C-terminal catalytic domains are identical. [provided by RefSeq, May 2018] |