

Product datasheet for **SC335275**

CGK2 (PRKG2) (NM_001282482) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CGK2 (PRKG2) (NM_001282482) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRKG2
Synonyms:	cGK2; cGKII; PKG2; PRKGR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335275 representing NM_001282482. Blue=Insert sequence Red=Cloning site Green=Tag(s)

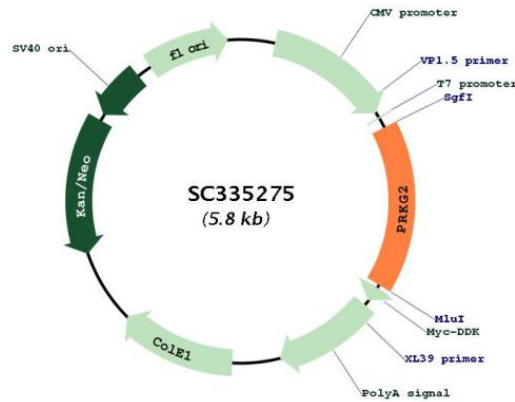
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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGTCTAACTGGAAGCTGTCCAAGCACTCTCTG GAAATGATTCAGCTGAAGGAGAAGGTTAAAGTA
AAAAATGAGAATGTTGCTTTTGCTATGAAGGTATAAGGAAGAAGCACATAGTTGACACCAAGCAGCAG
GAGCATGTCTACTCAGAGAAGAGGATCCTAGAGGAGCTGTGCTCTCCATTCATTGTGAAATTATATCGT
ACTTTCAAGGACAATAAGTATGTATACATGCTTCTGGAGGCTGCTTAGGTGGGAGCTCTGGAGTATA
TTAAGGGACAGAGGCAGCTTTGATGAACCCACCTCCAAATCTGCGTTGCTTGTGTGACAGAAGCATT
GATTACCTGCATCGACTAGGTATTATCTACAGAGACTTGAACCAGAAACTTAATTCTAGATGCTGAG
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TGTGGGACTCCAGAATATGTAGCTCCTGAAGTCATTCTCAACAAGGGACATGACTTCAGTGTGGATTC
TGGTCACTGGGAATCTAGTGTATGAGCTCCTAACGGGCAACCCACCTTTTCTGGGGTTGACCAAATG
ATGACCTACAATTTGATTCTCAAAGGAATTGAAAAATGGATTTTCCCAGGAAGATAACACGACGACCT
GAGGATTTGATTCGGAGGCTTTGCAGGCAAAATCCAACAGAAAGGCTGGGAAATCTGAAGAATGGAATA
AATGACATTAAGAAACACAGGTGGTTAAATGGTTTTAATGGGAGGGACTGAAAGCACGGAGCCTTCCA
TCACCTTTGCAAAGAGAGCTCAAGGGACCCATAGATCACAGCTACTTTGACAAATATCCTCCTGAAAA
GGAAATCCCTCCAGATGAGCTATCAGGCTGGGATAAAGACTTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001282482

Insert Size: 942 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_001282482.1](#)

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:	36.4 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) represents the use of an alternate promoter, and has multiple differences compared to variant 1. These differences result in a distinct 5' UTR and cause translation initiation at a downstream start codon compared to variant 1. The resulting isoform (c) has a shorter N-terminus compared to isoform a.</p>