

Product datasheet for **SC337335**

CGK2 (PRKG2) (NM_001282485) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CGK2 (PRKG2) (NM_001282485) 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)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001282485, the custom clone sequence may differ by one or more nucleotides

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ATGGGAAATGGTTCAGTGAACCTAAACATTCTAAGCACCCAGATGGACACTCTGGGAACCTCACCCTG
ATGCTCTGCGGAACAAGGTGACAGAGCTGGAGAGAGAGTTGAGGAGGAAGGATGCTGAGATCCAGGAGCG
GGAGTACCATTTGAAGGAGCTGCGGGAGCAGCTGTGCAAGCAGACTGTGGCCATTGCTGAACTCACAGAG
GAGCTCCAGAACAAGTGCATCCAGCTGAACAAGCTGCAGGATGTGGTGCAATATGCAGGGAGGAAGCCCGC
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CTCAGAAGTGTATCCTTGTGAAGAATTTACCTGAAGATAAATTAACCAAGATCATTGACTGCTTGGAAAG
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CCTGCATCGACTAGGTATTATCTACAGAGACTTGAACCCAGAAAACCTTAATTTAGATGCTGAGGGTTAC
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AATTTGATTTCTCAAAGGAATTGAAAAAATGGATTTTCCAGGAAGATAACACGACGACCTGAGGATTTGA
TTCGGAGGCTTTGCAGGCAAAATCCAACAGAAAGGCTGGGAAATCTGAAGAATGGAATAAATGACATTAA
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AGAGAGCTCAAGGGACCCATAGATCACAGCTACTTTGACAAATATCCTCCTGAAAAGGGAATGCCTCCAG
ATGAGCTATCAGGCTGGGATAAAGACTTCTGA
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001282485

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_001282485.1](#), [NP_001269414.1](#)

RefSeq Size: 4735 bp

RefSeq ORF: 2202 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

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]

Transcript Variant: This variant (6) uses an alternate in-frame splice site in an internal exon compared to variant 1. The resulting isoform (e) is shorter compared to isoform a. Sequence

Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.