

## Product datasheet for **RN206197**

### Prkg2 (NM\_013012) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prkg2 (NM_013012) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Prkg2
Synonyms:	cGKII; GDPKII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN206197 representing NM\_013012  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGAAATGTTTCAGTGAACCCAAGCATTCTGAAGCACCCAGACGGCCAGTCAGGGAACCTCAGCAATG  
 AAGCCCTGCGGAGCAAAGTGGCAGAGCTGGAGCGCGAGGTGAAGAGGAAGGATGCAGAATTCAGGAGCG  
 CGAGTACCACCTGAAGGAGCTTCGGGAGCAGCTAGCTAAGCAGACCGTGGCCATTGCGGAGCTCACCGAG  
 GAGCTGCAGAGCAAGTGCATCCAGCTGAACAAGCTGCAGGATGTTATCCACGTGCAGGGAGGAAGCCAC  
 TGCAGGCCCTCCTCCGACAAAGTGCCTCTGGATGTTACCAGCAAGACCTCAGGCTTGGTCTCCCTCCACAG  
 CAGGAGGGGGCGAAGGCTGGAGTGTCTGCAGAGCCACAAGCCGGACCTATGACCTCAACAAGCCCTCT  
 GAGTTCCTTTGAGAAAGCGAGGGTCAAGGATTCCAGTGAAGAAAACTTATCACAGACGCCCTGA  
 ATAGAACCAGTTTCTGAAGAGACTGGATCCGCAGCAGATCAAAGACATGGTGAATGCATGTACGGGAG  
 AAATATCAACAGGGCAGTTACATCGTTAAGCAAGGGGAACCTGGAAACCACATCTTTGTCTGGCCGAG  
 GGTAGACTGGAGGTGTTCCAAGGAGAGAAATGCTGTCGTCATCCCAATGTGGACCACGTTTGGGGAGC  
 TGGCTATTTTGTATAATTGTACGCGGACTGCCTCTGTGAAAGCTATTACCAATGTTAAAACCTTGGGCTCT  
 CGATAGAGAGGTTTTCCAGAACATTATGAGGAGAACAGCGCAAGCCAGGGATGAGGAATACAGAACTTC  
 CTCAGAAGTGTCTCCTGTTGAAGAATTAACCTGAAGCAAACTAACCAAGATTATTGACTGCTTGGAA  
 TGGAACTATGACAAAGGAGATTATATCATCAGAGAAGGAGAGGAAGGGAGCACCTTTTTTCATCTTGGC  
 AAAAGGAAAGGTGAAAGTACACAGAGCACAGAGGGCCATGATCAGCCACAGTTGATCAAAACACTGCAG  
 AAAGGAGAGTACTTTGGAGAAAAGGCTCTGATCAGTGTATGTCAGATCGGCCAATAAATCGCGGAAG  
 AAAATGATGTCGCATGCCTCGTATCGACCGAGAAACATTAACCAAACTGTCGGGACATTTGATGAAT  
 CCAAAAATACCTTGAGGGGTATGTGGCCACCCTGAACCGTGACGATGAAAAGAGACACGCAAGCGCTCC  
 ATGCTAGCTGGAAGTTGTCAAAGCCCTTCTCTGGAGATGATTCAGCTGAAAGAGAAGGTGGCCAGAT  
 TCTCTCAACCTCCCATCCAGAACCTTGAGATTATCGCAAACTGGGCGTTGGTGGGTTGGAAAGAGT  
 GGAGCTTGTTAAAGTTAAAAATGAGAACATCGCTTTTGGCATGAAGTGTATAAGGAAGAAGCACATTGTT  
 GACACTAAACAGCAGGAACATGTCTACTCCGAGAAGAGGATCCTGGAGGAGCTGTGTTCTCCCTTATCG  
 TGAATTTGATCGTACTTTCAAGGACAATAAATACGTATACATGCTTCTGGAGGCTGCTTAGGTGGGA  
 GCTCTGGAGTATATTAAGGGACAGAGGCAGCTTCGATGAACCCACCTCCAATTTCTGTGTGGCCTGCGTG  
 ACAGAAGCATTGATTATCTACACCGACTAGGCATTATCTACAGAGACCTGAAGCCAGAGAACTTAATTC  
 TGGATGCCGATGGCTACCTTAAGTTGGTTGACTTTGGATTGCTAAGAAGATTGGCTCTGGGCAGAAAAC  
 GTGGACATTCTGTGGGACTCCAGAGTATGTGGCCCCGAGGTCATTCTTAACAAAGGACATGACTTCAGT  
 GTGGATTTCTGGTCCCTGGGATTCTGGTCTATGAGCTTCTAACGGGCAACCCTCCCTTTCTGGGATAG  
 ACCAAATGATGACCTACAATTTGATTCTCAAAGGGATCGAGAAAATGGATTTTCTAGAAAAGATAACAAG  
 GCGACCCGAGGATTTGATCCGGAGGCTTTCAGGCAAAACCAACAGAAAGGCTGGGGAACCTGAAGAAT  
 GGGATCAACGACATTAAGAAACACAGGTGGTTAAACGGTTTCAATTGGGAGGGGTTGAAAGCACGGAGCC  
 TTCCCTCACCTTTACGAAGAGAGCTCAGTGGCCCCATAGATCACAGCTACTTTGACAAGTATCCTCTGA  
 AAAGGGGTTCTCCGGATGAAATGTCAGGCTGGGATAAGGACTCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_013012  
**Insert Size:** 2289 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_013012.1</a> , <a href="#">NP_037144.1</a>
<b>RefSeq Size:</b>	2990 bp
<b>RefSeq ORF:</b>	2289 bp
<b>Locus ID:</b>	25523
<b>UniProt ID:</b>	<a href="#">Q64595</a>
<b>Cytogenetics:</b>	14p22
<b>Gene Summary:</b>	may regulate renin release and renal ion transport [RGD, Feb 2006]