

## Product datasheet for **RN208372**

### Prkg1 (NM\_001105731) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prkg1 (NM_001105731) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Prkg1
Synonyms:	cGk1; Pkgi
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN208372 representing NM\_001105731  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGCGAACTGGAGGAAGACTTTGCGAAGATTCTCATGCTCAAGGAGGAGAGGATCAAAGAGCTGGAGA  
 AGCGGCTGT CAGAGAAAGAGGAAGAAATCCAGGAGCTGAAGAGGAACTCCACAAATGCCAGTCCGTGCT  
 GCCCGTGCCCTCCACCCACATTGGCCCGCGGACCACCCGGGCGCAGGGCATCTCCGCGGAGCCGAGACC  
 TACAGGTCCTTCCACGACCTGCGCCAGGCGTTCGGAAGTTCCTAAATCCGAGAGGTGCAAGGATCTCA  
 TAAAGGAGGCTATCCTTGACAATGACTTTCATGAAGAACTGGAGCTGTCACAGATCCAGGAGATTGTGGA  
 TTGTATGTACCCCGTGAATATGGGAAGGACAGCTGCATCATCAAGGAAGGCGATGTGGGGTCACTGGTG  
 TATGTCATGGAAGATGGGAAGGTGCAAGTCACAAAAGAAGGTGTGAAGTTGTGCACCATGGTCCCGGGA  
 AAGTGTCGGGGAGCTGGCTATTCTTTACAACGTACCCGGACAGCGACCGTCAAGACTCTGTAAATGT  
 GAAACTCTGGGCCATTGATCGACAATGTTTTCAAACAATAATGATGAGAACAGGACTCATCAAGCACACC  
 GAGTACATGGAGTTTTTAAAAAGTGTCCAACATTCCAGAGCCTTCTGTGAAATCCTCAGCAAGCTGG  
 CTGATGTCCTCGAAGAGACTCACTATGAAAATGGAGAATATATCATAAGGCAGGGTGCAAGAGGAGACAC  
 CTTCTTCATCATCAGCAAAGGGAAGGTAACGTTACCCGAGAAGACTCACCAAGTGAAGACCCAGTCTTT  
 CTTAGAACTTTAGGGAAGGGAGATTGGTTTTGGAGAGAAAGCCTTGACGGGGGAGGATGTAAGAACAGCGA  
 ACGTCATTGCTGCAGAGGCTGTCACCTGCCTCGTGATTGACAGAGACTCTTTCAAGCATTAATTGGAGG  
 ACTGGATGATGTCTTAACAAAGCATATGAGGATGCAGAAGCGAAAGCAAATAAAGCCGAAGCTGCC  
 TTCTTCGCCAACCTGAAGCTGTCTGACTTCAACATCATTGACACCCTTGGAGTGGGAGGTTTCGGACGAG  
 TGGAGCTGGTCCAGTTGAAGAGTGAAGAATCTAAAACATTTGCGATGAAGATCCTCAAGAAACGACACAT  
 TGTGGACACGAGACAGCAGGAGCACATCCGCTCAGAGAAGCAGATCATGCAGGGGGCTCATTCCGATTTT  
 ATCGTGAGGCTATACCGACATTTAAAGACAGCAAACTTGTATATGTTGATGGAAGCTTGCCTAGGTG  
 GAGAACTCTGGACTATTCTCAGGGATAGGGTTTCAATTTGAAGACTCGACAACCAGATTTTACACAGCATG  
 TGTGGTAGAAGCGTTTGCCTATCTGCATTCCAAAGGAATCATTACAGGGACCTCAAGCCAGAAAATCTC  
 ATCCTAGATCACCGAGGTTATGCCAACTGGTTGACTTTGGCTTTGCAAAGAAAATAGGATTTGGAAAGA  
 AAACATGGACTTTTTGTGGGACCCAGAATACGTGGCCCGAGAGATCATCCTGAACAAAGCCATGACAT  
 TTCTGCTGACTACTGGTCACTAGGGATTCTGATGTATGAGCTTCTGACTGGCAGCCACCTTTCTCAGGC  
 CCAGATCCTATGAAAACCTACAACATCATACTGCGGGGATTGACATGATAGAATTTCCAAGAAGATTG  
 CAAAAATGCTGCTAATTTAATTAATAAACTATGCAAGGACAACCCATCAGAAAGGTTAGGAAATTTGAA  
 AAACGGAGTCAAAGACATTCAAAAAACACAGTGGTTTGGGGCTTTAACTGGGAAGGCTTAAAGAAAAGGC  
 ACCTTGACTCCTCCATAATTCCGAGCGTTGCGTCGCCACGGACACAAGCAATTTTGACAGTTTCCCTG  
 AGGACAGCGACGACCCCGCTGATGACAACCTCAGGCTGGGACATAGACTTCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_001105731

**Insert Size:** 2016 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\\_001105731.3](#), [NP\\_001099201.3](#)

**RefSeq Size:** 2016 bp

**RefSeq ORF:** 2016 bp

**Locus ID:** 54286

**Cytogenetics:** 1q52

**Gene Summary:** may play a role in cGMP mediated regulation of renal hemodynamics [RGD, Feb 2006]