

## Product datasheet for **RR209049**

### Phkg2 (NM\_080584) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Phkg2 (NM_080584) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Phkg2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR209049 representing NM_080584 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGTTGGACGTGGGGCCAGAGGATGAACTCCCAGACTGGGCTGCGGCCAAAGAGTTTTACCAGAAGT  
ATGACCCCAAGGACATCATTGGCAGAGGAGTGAGCTCTGTGTCGCGCGCTGTGCCATCGAGCTACTGG  
TGATGAGTTTTGCAGTGAAGATCATGGAGGTGTCAGCTGAACGGCTGAGTCTTGAGCAGCTGGAGGAGTG  
CGGGATGCCACACGGCGAGAGATGCACATCCTTCGCCAGGTGCTGGCCACCCCCACATCATCACTCTCA  
TCGATTCTACGAGTCTTCTAGCTTCATGTTCTGGTGTTTGACCTGATGCGGAAAGGAGAGCTGTTTGA  
CTATCTCACAGAGAAAGTGGCCCTCTCAGAAAAGGAAACCAGGTCCATTATGAGGCTCTGCTGGAGGCG  
GTGAACTTTCTTCATGTCAACAACATTGTACATCGAGACCTGAAGCCTGAGAATATCCTCTAGATGACA  
ATATGCAGATCCGCCTTTCAGATTTTGGGTTCTCCTGCCATTTGGAACCTGGCGAGAAGCTTCGAGAGCT  
GTGTGGGACTCCGGGATATCTAGCACCAGAGATCCTTAAATGCTCCATGGATGAAACCCACCCAGGCTAC  
GGCAAGGAAGTCGACCTCTGGGCTTGTGGGTAATCCTGTTCACACTTCTGGCTGGCTCGCCACCATCT  
GGCATCGACGCCAAATCCTGATGCTACGCATGATCATGGAAGGCCAATATCAGTTTAGTTCACCCGAGTG  
GGATGATCGTTCAAACACCGTCAAAGACCTGATCGAAAGCTGCTGCAGGTGGATCCTAACGCACGCTTG  
ACCGCTGAGCAAGCCCTACAGCACCCCTTCTTTGAGCGCTGTAAGGCCAGCCAGCCCTGGAACCTCACAC  
CTCGCCAGCGGTTCCGGGTGGCAGTGTGGACAATACTGGCTGCTGGACGAGTAGCCTTAAGCAGTACCAG  
TTTACGGCCACTAACTAAGAATGCACTCTTGAGAGACCCCTATGCACTGCGGCCAGTACGGCGCCTCATT  
GACAACTGTGCCTTCGGCTCTATGGACACTGGGTGAAGAAGGGGGAGCAGCAGAAACCGGGCGCCCTCT  
TCCAGCACCAGCTCCTAGGCCCTTCCCATCATTGCCACTGACCTGGAAGGAGACTCCAGTGCTATCAC  
AGAGGATGAAGTTACCTTGGTACGGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RR209049 representing NM\_080584  
 Red=Cloning site Green=Tags(s)

MTLDVGPEDLPDWAAAKEFYQKYDPKDIIGRVSSVVRRCVHRATGDEFVAKIMEVSAERLSLEQLEEV  
 RDATRREMHILRQVAGHPHIITLIDSYESSFVFLVFDLMRKGELFDYLTEKVALSEKETRSMRSLLEA  
 VNFLHVNNIVHRDLKPENILLDDNMQIRLSDFGF SCHLEPGEKLRCLGTPGYLAPEILKCSMDETHPGY  
 GKEVDLWACGVILFTLLAGSPPFWHRRQILMLRMIMEGQYQFSSPEWDDRSNTVKDLIAKLLQVDPNARL  
 TAEQALQHPFFERCKGSQPNLTPRQFRVAVWTILAAGRVALSSHRLRPLTKNALLRDPYALRPVRRLLI  
 DNCAFRLYGHVWKKGEQQNRAALFQHQPFRPFPIIATDLEGSSAITEDEVTLVRS

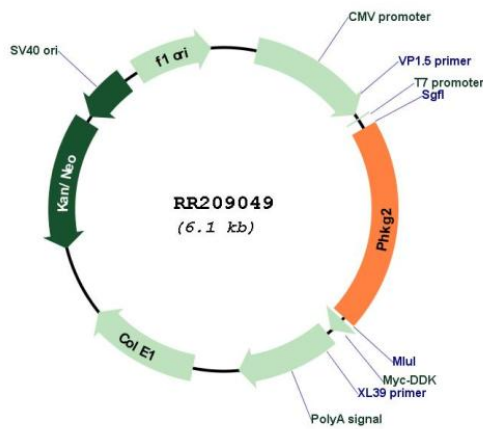
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_080584

<b>ORF Size:</b>	1218 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_080584.4</a> , <a href="#">NP_542151.1</a>
<b>RefSeq Size:</b>	1836 bp
<b>RefSeq ORF:</b>	1221 bp
<b>Locus ID:</b>	140671
<b>UniProt ID:</b>	<a href="#">P31325</a>
<b>Cytogenetics:</b>	1q37
<b>MW:</b>	46.7 kDa
<b>Gene Summary:</b>	phosphorylase kinase catalytic subunit isoform; catalyzes the phosphorylation and activation of glycogen phosphorylase [RGD, Feb 2006]