

## Product datasheet for **RR204801**

### **Pck2 (NM\_001108377) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Pck2 (NM_001108377) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pck2
Synonyms:	PEPCK-M
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR204801 representing NM\_001108377  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTGCTATGTACCTCCCCGGCTGCGGCTTAGCTGGCACAGGCTGAGGCCCTGGTGCCGGTACCAT  
 GCCGTAGCATCCAAACCTGCGCGTGCTCAGTGGAGATCTGAGCCAGCTGCCGGCTGGGGTTCGAGACTT  
 TGTGGAGCGCAGTGCCCATCTGTGCCAACAGCAGGCATCCATATTTGTGATGGGACTGAGGCTGAGAAC  
 GCTGCCACGCTGGCCCTGCTGGAAGAGCAGGGTCTTATCCGGAAGCTCCCCAAGTATGAGAACTGCTGGC  
 TGGCCCGCACAGACCCCAAGGATGTGGCACGGGTAGAAAGCAAGACGGTGATTGTAACCTCTTCGCAGCG  
 GGACACAGTGCCTCTCCTGGCTGGTGGGCCAGTGGGCAGCTGGGCAACTGGATGTCCCCAGATGAGTTC  
 CAGAGAGCTGTGGACCAGAGATCCCAGGATGCATGCAGGGCCGACCATGTATGTGCTTCCGTTACAGCA  
 TGGGTCCCTTGGGCTCCCGCTCTCCCGCATTGGAGTGCAGCTCACTGACTCGCCTTATGTAGTGGCAAG  
 CATGCGGATTATGACCCGCTGGGGACACATGTACTCCAGGCCCTGGGAGATGGTGACTTCATCAAGTGT  
 CTGCATTCGGTGGCCAGCCCTGACTGGACATGGGGATCCTGTGGGCCGGTGGCCATGCAATCCGGAAA  
 AAACCCCTGATTGGCCACGTGCCGGAGCAGCGGGAGATCGTCTCCTTCGGCAGCGGCTATGGTGGAACTC  
 CTTGCTGGGAAGAAGTGTTCCTGCGCATCGCCTCTCGCCTGGCCAGGGATGAGGGCTGGCTGGCA  
 GAACACATGCTGATTTTGGGCATACCAACCCCGAGGAAAAAGCGCTATGTGGCAGCTGCTTTCCCCA  
 GTGCCTGTGGCAAGACCAATCTGGCCATGATGCGGCTGCTTTGCCAGGCTGAAAGTGGAGTGTGTGGG  
 GGATGACATCGCCTGGATGAGGTTTGACAGTGAAGGTCAACTCCGGGCCATCAACCCTGAGAATGGCTTC  
 TTCGGGTGGCCCTGGTACCTCTGCCACCACCAATCCAATGCCATGGCCACAATCCAGAGTAACACTG  
 TCTTCACCAATGTGGCTGAGACCAGTGTGGCGTGTGTACTGGGAAGGCATTGACCAGCCTCTCCACC  
 TGGTGTCAACCGTAACCTCCTGGCTGGGAAAGCCATGAAACCTGGGGACAAGGAACCCTGTGCGCATCCA  
 AACTCTCGCTTTTGTGTCCCGCTCGCCAGTGCCCATCATGGACCCAGCCTGGGAGGCACCAGAAGGTG  
 TTCCAATTGATGCCATCATCTTCGGAGGCCGAGACCTAAAGGGTACCCTGGTGTATGAGGCCTTCAG  
 CTGGCGCCATGGGGTGTGTGCGGTAGTGCCATGCGCTCTGAGTCCACTGCAGCTGCTGAACACAAGGGA  
 AAGACCATTATGCACGATCCCTTTGCCATGCGACCTTTTTTTGGCTATAACTTCGGACACTACCTGGAAC  
 ACTGGTTGAGCATGGAGGACGAAAAGGTGCCCGCTGCCTCGTATCTTCCATGTCAACTGGTTCGGGAG  
 AGATGAAGCAGGCCGCTTCTGTGGCCAGGCTTTGGGAAAACGCTCGCGTGCTAGACTGGATCTGCCGA  
 AGATTAGGAGGAGAAGACAGTGGCCGAGAGACTCCATTGGGCTCGTACCAAAGGAAGGAGCCCTGGATC  
 TCAGTGGCCTCCGAGCAATAGATACCAGTCAGCTGTTCTCCATCCCAAGGACTTCTGGGAACAGGAGGT  
 TCGTGATATTAGGAGCTACCTGACAGAGCAAGTCAACCAGGATCTGCCAAGGAGGTGTTGGCTGAGCTC  
 GAGGCCCTGGAAGAGCGCGTGCAAAAATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR204801 representing NM\_001108377  
 Red=Cloning site Green=Tags(s)

MAAMYLPGLRLSWHRLRPWCRSPCRSIQTLRVLSGDLSQLPAGVRDFVERSAHLCQPAGIHCIDGTEAEN  
 AATLALLEEQLIRKLPKYENCWLARTDPKDVARVESKTVIVTSSQRDTPVLLAGGASGQLGNWMSDEF  
 QRAVDQRFPGCMQGRMTMYVLPFSMGLGSPLSRIGVQLTDSPIYVASMRIITRLGTHVLQALGDGDFIKC  
 LHSVGPQLTGHGDPVGRWPCNPEKTLIGHVPEQREIVSFGSGYGGNSLLGKKCFALRIASRLARDEGWLA  
 EHMLILGITNPAGKKRYVAAAFPSACGKTNLAMMRPALPGWKVECVGDDIAWMRFDEGQLRAINPENG  
 FGVAPGTSATTNPAMATIQSNTVFTNVAETSDGGVYWEGIDQPLPPGVTVTSWLKPKWPGDKEPCAHP  
 NSRFCVPARQCPIMDPAWEAPEGVPIDAIIFGRRPKGVPLVYEAFAWRHGVFVGSAMRSESTAAAHEK  
 KTIMHDPFAMRPFYGFYNGHYLEHWSMEGRKGARLPRIFHVNWFRRDEAGRFLWPGFGENARVLDWICR  
 RLGGEDSARETPIGLVPKEGALDLSGLRAIDTSQLFSIPKDFWEQEVDRDIRSYL TEQVNQDLPKEVLAEL  
 EALEERVQKM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

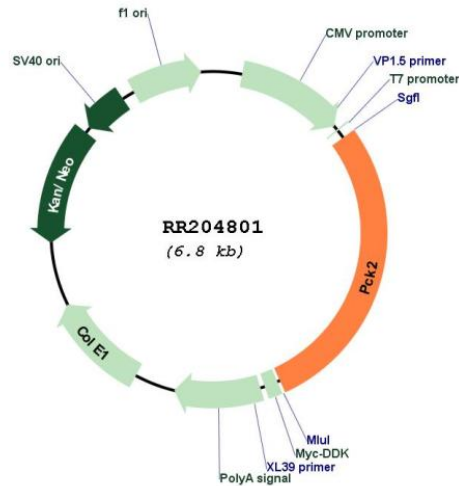
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



Plasmid Map:



ACCN: NM\_001108377

ORF Size: 1920 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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\\_001108377.2](#), [NP\\_001101847.2](#)

RefSeq Size: 2203 bp  
RefSeq ORF: 1923 bp  
Locus ID: 361042  
Cytogenetics: 15p13  
MW: 70.7 kDa