

Product datasheet for **MR209685**

Pck2 (BC010318) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pck2 (BC010318) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pck2
Synonyms:	1810010O14Rik; 9130022B02Rik; PEPCK-M
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR209685 representing BC010318
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCTATGTACCTCCCCGGCTGCGGCTTAGCCGGCACGGGCTAAGGCCCTGGTGCTGGTCACCGT
GCCGTAGCATCCAAACCTGCGTGTCTCAGTGGAGATATGAGTCAGCTGCCGGCTGGAGTTCGAGACTT
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GAGGCTCTGGAAGGACGTGTACAAAAATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209685 representing BC010318
Red=Cloning site Green=Tags(s)

MAAMYLPGLRLSRHGLRPWCWSPCRSIQTLRVLSGDMSQLPAGVRDFVARSAHLCPGEGIHICDGTEAEN
 TAILALLEEQLIRKLPKYKNCWLARTDPKDVARVESKTVIVTPSQRDTVPLLAGGARGQLGNWMSPDF
 QRAVDERFPGCMQGRIMYVLPFSMGVPVGSPLSRIGVQLTDSAYVVASMRIMTRLGTPVLQALGDGDFIKC
 LHSVQPLTGHGDPVQWPCNPEKTLIGHVPDQREIVSFGSGYGGNSLLGKKCFALRIASRLARDEGWLA
 EHMLILGITNPAGKKRYVAAAFPSACGKTNLAMMRPALPGWKVECVGDDIAWMRFDEGQLRAINPENGF
 FGVAPGTSAAATNPAMATIQSNTLFTNVAETSDGGVYWEGIDQPLPPGVTITSWLGKPKPGDKEPCAHP
 NSRFCVPARQCPIMDPAWEAPEGVPIDAIIIFGRRPKGVPLVYEAFNWRHGVFVGSAMRSESTAAAHEHKG
 KTIMHDPFAMRPFYGFYNGRYLEHWSMEGQKGARLPRIHFVNWFRDEAGCFLWPFGGENARVLDWICR
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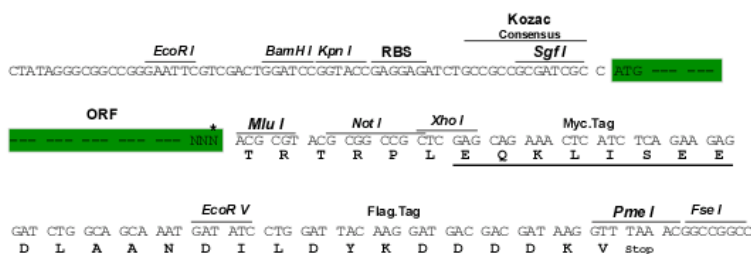
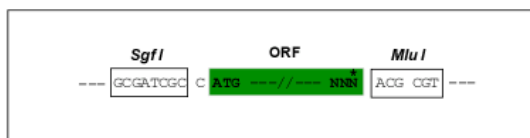
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Chromatograms: https://cdn.origene.com/chromatograms/mm9043_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: BC010318

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: [BC010318.1](#)

RefSeq Size: 2143 bp

RefSeq ORF: 1922 bp

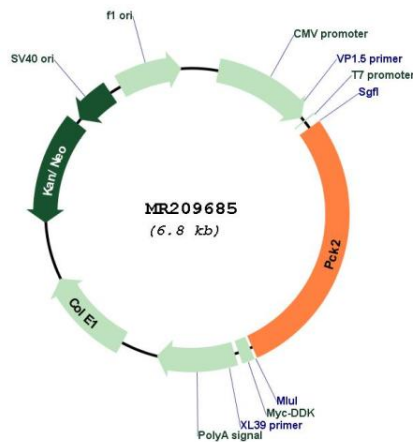
Locus ID: 74551

Cytogenetics: 14 28.19 cM

MW: 78.5 kDa

Gene Summary: Catalyzes the conversion of oxaloacetate (OAA) to phosphoenolpyruvate (PEP), the rate-limiting step in the metabolic pathway that produces glucose from lactate and other precursors derived from the citric acid cycle.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209685