

## Product datasheet for MR205953

### Ckb (NM\_021273) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ckb (NM_021273) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ckb
Synonyms:	B-CK; Bck; Ck-3; Ck3; Ckbb; CPK-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205953 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCTTCTCCAACAGCCATAATACGCAGAAGCTGCGCTTCCCGGCCGAGGATGAGTTCCTGATCTGA  
GCAGCCACAACAACCATATGGCCAAGGTGCTGACCCCGGAGCTGTACGCCGAGCTCCGTGCCAAGTGAC  
GCCGAGCGGCTTTACTTTGGACGACGCCATTAGACTGGCGTAGACAATCCGGGCCACCCGTACATCATG  
ACTGTGGGTGCAGTGGCGGGCAGCAGGAGAGTTACGACGTATCAAGGACCTCTTCGACCCATTATTG  
AGGAGCGGCACGGCGGCTACCAGCCAGTGATGAGCACAAGACCGACCTCAACCCAGACAACCTGCAGGG  
TGGCGATGACCTGGACCCAACTACGTGCTGAGCTCGCGAGTGGCGACAGGCCGAGCATCCGCGGCTTC  
TGTCTCCCCCGCACTGCAGCCGCGGGAGCGCCGCGCCATCGAGAAGCTGGCAGTAGAAGCTCTGTCCA  
GCCTAGATGGCGACCTGTCTGGCAGTACTACGCGCTCAAGAGCATGACTGAGGCGGAGCAGCAGCAGCT  
CATTGACGACCACTTCTCTTCGATAAGCCTGTGTGCGCTCTGCTGCTGGCCTCCGGCATGGCCCGCGAC  
TGGCCGGATGCTCGTGGCATAATGGCACAATGACAATAAGACTTTCCTGGTGTGGATTAACGAGGAGGACC  
ACCTGCGAGTCATCTCCATGCAGAAGGGGGCAACATGAAGGAAGTGTTCACCCGATTCTGCACCCGGCT  
CACTCAGATCGAACTCTCTTCAAGTCCAAGAATAAGTTCATGTGGAATCCTCACCTGGGCTACATC  
CTCACATGCCATCCAACCTGGGCACCGGACTGCGGGCAGGTGTGCACATCAAGTGCACCCACCTGGGGA  
AGCACGAGAAGTTCTCGGAGGTGCTCAAGCGGCTGCGGCTTCAAGAGCGAGGCACAGGTGGCGTGGACAC  
CGCTGCTGTCGGTGGGTGTTTGTGTCTCCAACGCTGACCGCCTGGGCTTCTCGGAGGTGGAAGTGGTG  
CAGATGGTGGTGGACGGAGTGAAGTACTCATTGAGATGGAGCAACGGCTCGAGCAGGGTCAGGCAATCG  
ATGACCTCATGCCGCCCCAGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR205953 protein sequence  
 Red=Cloning site Green=Tags(s)

MPFSNSHNTQKLRFPAAEDEFDPDLSHNNHMAKVLTPELYAELRAKCTPSGFTLDDAIQTGVDNPGHPYIM  
 TVGAVAGDEESYDVFKDLFDPIIEERHGGYQPSDEHKTDLNPDLQGGDDLPNYVLSRVRTGRSIRGF  
 CLPPHC SRGERRAIEKLAVEALSSLDGDL SG RYALKSMTAEQQQLIDDHFLFDKPVSPLLL ASGMARD  
 WPDARGIWHNDNK TFLVWINEEDHLRVI SMQKGGNMKEVFTRFCTGLTQIETL FKSKNYEFMWNPHLGYI  
 LTCP SNLGTGLRAGVHIKLP HL GKHEKFSEVLKRLRLQKRGTGGVDTAAVGGVFDVSNADRLGFSEVELY  
 QMVVDGVKLLIEMEQRLEQQAIDDLMPAQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_021273

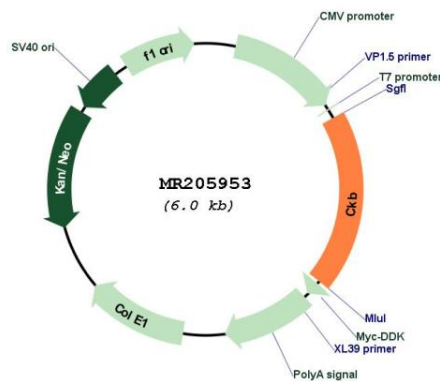
**ORF Size:** 1146 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<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>	<u>NM_021273.2</u>
<b>RefSeq Size:</b>	1478 bp
<b>RefSeq ORF:</b>	1146 bp
<b>Locus ID:</b>	12709
<b>UniProt ID:</b>	<u>Q04447</u>
<b>Cytogenetics:</b>	12 61.09 cM
<b>MW:</b>	42.7 kDa
<b>Gene Summary:</b>	Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate). Creatine kinase isoenzymes play a central role in energy transduction in tissues with large, fluctuating energy demands, such as skeletal muscle, heart, brain and spermatozoa.[UniProtKB/Swiss-Prot Function]

**Product images:**


Circular map for MR205953