

Product datasheet for **MG205953**

Ckb (NM_021273) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ckb (NM_021273) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ckb
Synonyms:	B-CK; Bck; Ck-3; Ck3; Ckbb; CPK-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205953 representing NM_021273 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTTCTCCAACAGCCATAATACGCAGAAGCTGCGTTCGCCGCCGAGGATGAGTTCCTGATCTGA
GCAGCCACAACAACCATATGGCCAAGGTGCTGACCCCGGAGCTGTACGCCGAGCTCCGTGCCAAGTGAC
GCCGAGCGGCTTACTTTGGACGACGCCATTACACTGGCGTAGACAATCCGGGCCACCCGTACATCATG
ACTGTGGGTGCAGTGGCGGGCAGCAGGAGAGTTACGACGTATCAAGGACCTCTTCGACCCATTATTG
AGGAGCGGCACGGCGGCTACCAGCCAGTGATGAGCACAAGACCGACCTCAACCCAGACAACCTGCAGGG
TGGCGATGACCTGGACCCAACTACGTGCTGAGCTCGCGAGTGGCGACAGGCCGAGCATCCGCGGCTTC
TGCTCCCCCGCACTGCAGCCGCGGGAGCGCCGCGCCATCGAGAAGCTGGCAGTAGAAGCTCTGTCCA
GCCTAGATGGCGACCTGTCTGGCAGTACTACGCGCTCAAGAGCATGACTGAGGCCGAGCAGCAGCAGCT
CATTGACGACCACTTCTCTTCGATAAGCCTGTGTGCGCTCTGCTGCTGGCCTCCGGCATGGCCCCGAC
TGGCCGGATGCTCGTGGCATATGGCACAATGACAATAAGACTTTCCTGGTGTGGATTAACGAGGAGGACC
ACCTGCGAGTCATCTCCATGCAGAAGGGGGCAACATGAAGGAAGTGTTCACCCGATTCTGCACCCGCT
CACTCAGATCGAACTCTCTTCAAGTCCAAGAATAAGTTCATGTGGAATCTCACCTGGGCTACATC
CTCACATGCCATCCAACCTGGGCACCGGACTGCGGGCAGGTGTGCACATCAAGTGCACCCACCTGGGGA
AGCACGAGAAGTTCTCGGAGGTGCTCAAGCGGCTGCGGCTTCAAGAAGCGAGGCACAGGTGGCGTGGACAC
CGCTGCTGTCGGTGGGTGTTTGTGTCTCCAACGCTGACCGCCTGGGCTTCTCGGAGGTGGAAGTGGTG
CAGATGGTGGTGGACGGAGTGAACACTACTATTGAGATGGAGCAACGGCTCGAGCAGGGTCAGGCAATCG
ATGACCTCATGCCGCCAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG205953 representing NM_021273
 Red=Cloning site Green=Tags(s)

MPFSNSHNTQKLRFPAEDEFDPDLSHNNHMAKVLTPELYAELRAKCTPSGFTLDDAIQTGVDNPGHPYIM
 TVGAVAGDEESYDVFKDLFDPIIEERHGGYQPSDEHKTDLNPDLQGGDDLDPNYVLSRVRTGRSIRGF
 CLPPHCSRGERRAIEKLAVEALSSLDGDLSGRYALKSMTEAEQQQLIDDHFLFDKPVSPLLLASGMARD
 WPDARGIWHNDNKTFVWINEEDHLRVISMQKGGNMKEVFTRFCTGLTQIETLFKSKNYEFMWNPHLGYI
 LTCPSNLGTGLRAGVHIKLPHLGKHEKFSEVLKRLRLQKRGTGGVDTAAVGGVFDVSNADRLGFSEVELY
 QMVVDGVKLLIEMEQRLEQGQAIDDLMPAQK

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3223_g06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021273

ORF Size: 1143 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 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.

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_021273.2](#)

RefSeq Size: 1478 bp

RefSeq ORF: 1146 bp

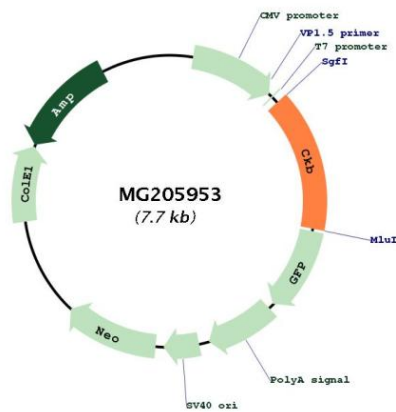
Locus ID: 12709

UniProt ID: [Q04447](#)

Cytogenetics: 12 61.09 cM

Gene Summary: 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 MG205953