

## Product datasheet for RC203669

### Creatine kinase B type (CKB) (NM\_001823) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Creatine kinase B type (CKB) (NM_001823) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Creatine kinase B type
Synonyms:	B-CK; BCK; CKBB; CPK-B; HEL-211; HEL-S-29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203669 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCTTCTCCAACAGCCACAACGCACTGAAGCTGCGCTTCCCGCCGAGGACGAGTCCCCGACCTGA  
GCGCCACAACAACCACATGGCCAAGGTGCTGACCCCGAGCTGTACGCGGAGCTGCGCGCAAGAGCAC  
GCCGAGCGGCTTACGCTGGACGACGTCATCCAGACAGGCGTGGACAACCCGGGCCACCCGTACATCATG  
ACCGTGGGCTGCGTGGCGGGGACGAGGAGTCTACGAAGTGTTCAAGGATCTCTTGACCCCATCATCG  
AGGACCGGCACGGCGGCTACAAGCCAGCGATGAGCACAAGACCGACCTCAACCCGACAACCTGCAGGG  
CGGCGACGACCTGGACCCAACTACGTGCTGAGCTCGCGGGTGGCAGCGGCCGAGCATCCGTGGCTTC  
TGCTCCCCCGCACTGCAGCCGCGGGGAGCGCCGAGCCATCGAGAAGCTCGCGGTGGAAGCCCTGTCCA  
GCCTGGACGGCGACCTGGCGGGCGATACTACGCGCTCAAGAGCATGACGGAGGCGGAGCAGCAGAGCT  
CATCGACGACCACTTCTCTTCGACAAGCCCGTGTGCGCCCTGCTGCTGGCCTCGGGCATGGCCCGCAG  
TGGCCCGACGCCCGGATCTGGCACAATGACAATAAGACCTTCTGTTGGTGAACGAGGAGGACC  
ACCTGCGGGTCACTCCATGCAGAAGGGGGCAACATGAAGGAGGTGTTACCCGCTTCTGCACCCGCT  
CACCCAGATTGAACTCTCTCAAGTCTAAGACTATGAGTTCATGTGGAACCTCACCTGGGCTACATC  
CTCACCTGCCATCCAACCTGGGACCCGGGCTGCGGGCAGGTGTGCATATCAAGTGCACCACTGGGCA  
AGCATGAGAAGTTCTCGGAGGTGCTTAAGCGGCTGCGACTTCAGAAGCGAGGCACAGGCGGTGTGGACAC  
GGCTGCGGTGGCGGGTCTTCGACGTCTCCAACGCTGACCGCCTGGGCTTCTCAGAGGTGGAGCTGGTG  
CAGATGGTGGTGGACGGAGTGAAGCTGCTCATCGAGATGGAACAGCGGCTGGAGCAGGGCCAGGCCATCG  
ACGACCTCATGCCTGCCAGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_001823.5](#)

**RefSeq Size:** 1475 bp

**RefSeq ORF:** 1146 bp

**Locus ID:** 1152

**UniProt ID:** [P12277](#)

**Cytogenetics:** 14q32.33

**Domains:** ATP-gua\_Ptrans

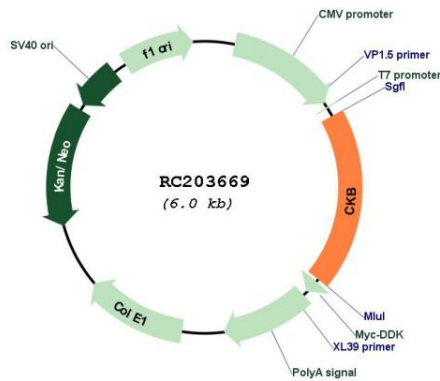
**Protein Families:** Druggable Genome

**Protein Pathways:** Arginine and proline metabolism, Metabolic pathways

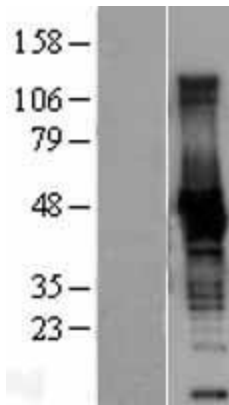
**MW:** 42.6 kDa

**Gene Summary:** The protein encoded by this gene is a cytoplasmic enzyme involved in energy homeostasis. The encoded protein reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in brain as well as in other tissues, and as a heterodimer with a similar muscle isozyme in heart. The encoded protein is a member of the ATP:guanido phosphotransferase protein family. A pseudogene of this gene has been characterized. [provided by RefSeq, Jul 2008]

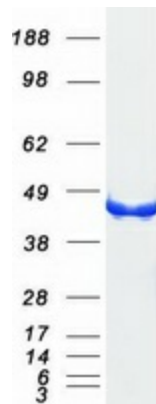
Product images:



Circular map for RC203669



Western blot validation of overexpression lysate (Cat# [LY400689]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203669 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CKB protein (Cat# [TP303669]). The protein was produced from HEK293T cells transfected with CKB cDNA clone (Cat# RC203669) using MegaTran 2.0 (Cat# [TT210002]).