# CKB cDNA Clone – Creatine Kinase, Brain (Human)

## PRODUCT OVERVIEW

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|---|---|
| **Product Name** | CKB, cDNA Clone |
| **Full Product Name** | CKB cDNA Clone |
| **Product Gene Name** | CKB cdna clone |
| **Sequence** | atgcccttct ccaacagcca caacgcactg aagctgcgct tcccggccga ggacgagttc cccgacctga gcgcccacaa caaccacatg gccaaggtgc tgacccccga gctgtacgcg gagctgcgcg ccaagagcac gccgagcggc ttcacgctgg acgacgtcat ccagacaggc gtggacaacc cgggccatcc gtacatcatg accgtgggct gcgtggcggg cgacgaggag tcctacgaag tgttcaagga tctcttcgac cccatcatcg aggaccggca cggcggctac aagcccagcg atgagcacaa gaccgacctc aaccccgaca acctgcaggg cggcgacgac ctggacccca actacgtgct gagctcgcgg gtgcgcacgg gccgcagcat ccgtggcttc tgcctccccc cgcactgcag ccgcggggag cgccgagcca tcgagaagct cgcggtggaa gccctgtcca gcctggacgg cgacctggcg ggccgatact acgcgctcaa gagcatgacg gaggcggagc agcagcagct catcgacgac cacttcctct tcgacaagcc cgtgtcgccc ctgctgctgg cctcgggcat ggcccgcgac tggcccgacg cccgcggtat ctggcacaat gacaataaga ccttcctggt gtgggtcaac gaggaggacc acctgcgggt catctccatg cagaaggggg gcaacatgaa ggaggtgttc acccgcttct gcaccggcct cacccagatt gaaactctct tcaagtctaa ggactatgag ttcatgtgga accctcacct gggctacatc ctcacctgcc catccaacct gggcaccggg ctgcgggcag gtgtgcatat caagctgccc aacctgggca agcatgagaa gttctcggag gtgcttaagc ggctgcgact tcagaagcga ggcacaggcg gtgtggacac ggctgcggtg ggcggggtct tcgacgtctc caacgctgac cgcctgggct tctcagaggt ggagctggtg cagatggtgg tggacggagt gaagctgctc atcgagatgg aacagcggct ggagcagggc caggccatcg acgacctcat gcctgcccag aaatga |
| **Molecular Weight** | 42,644 Da |
| **OMIM** | 123280 |
| **Vector** | pENTR223.1 |
| **Clone Sequence Report** | Provided with product shipment |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for CKB cdna clone** | MBS1267009 is a cDNA clone targeting CKB. |
| **Other Notes** | Small volumes of CKB cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CKB. It may not necessarily be applicable to this product.

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|---|---|
| **NCBI GI #** | 17939432 |
| **NCBI GeneID** | 1152 |
| **NCBI Accession #** | BC019259 |
| **UniProt Secondary Accession #** | Q2LE07; Q6FG40; Q9UC66; A8K236; B2R5R4 |
| **UniProt Related Accession #** | P12277 |
| **NCBI Official Full Name** | Homo sapiens creatine kinase, brain, mRNA |
| **NCBI Official Synonym Full Names** | creatine kinase B |
| **NCBI Official Symbol** | CKB |
| **NCBI Official Synonym Symbols** | BCK; B-CK; CKBB; HEL-211; HEL-S-29 |

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|---|---|
| **UniProt Protein Name** | Creatine kinase B-type |
| **UniProt Synonym Protein Names** | B-CK; Creatine kinase B chain |
| **Protein Family** | Creatine kinase |
| **UniProt Gene Name** | CKB |
| **UniProt Synonym Gene Names** | CKBB |
| **UniProt Entry Name** | KCRB_HUMAN |
| **NCBI Protein Information** | creatine kinase B-type |
| **NCBI Summary for CKB** | 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] |
| **UniProt Comments for CKB** | CKB: 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. Belongs to the ATP:guanido phosphotransferase family.<br><br>Protein type: Amino Acid Metabolism - arginine and proline; Kinase, other; EC 2.7.3.2<br><br>Chromosomal Location of Human Ortholog: 14q32<br><br>Cellular Component: cytoplasm; cytosol; extracellular space<br><br>Molecular Function: creatine kinase activity; protein binding; ubiquitin protein ligase binding<br><br>Biological Process: creatine metabolic process; substantia nigra development |
| **Research Articles on CKB** | **1.** SRC, LYN and CKB expression or DNA methylation could be useful markers for predicting tumor progression. |
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