

Product datasheet for **SC319293**

Creatine kinase B type (CKB) (NM_001823) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Creatine kinase B type (CKB) (NM_001823) Human Untagged Clone
Tag:	Tag Free
Symbol:	Creatine kinase B type
Synonyms:	B-CK; BCK; CKBB; CPK-B; HEL-211; HEL-S-29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001823.3
 CCTGCGTCTCGGGAGCTGCCGACGGACGGAGCGCCCCCGCCCCCGCCGGCCGCCCC
 CCCGCCCGCCCATGCCCTTCTCCAACAGCCACAACGCACTGAAGCTGCGCTTCCCGGCC
 GAGGACGAGTTCCCCGACCTGAGCGCCCAACAACACATGGCCAAGGTGCTGACCCCC
 GAGCTGTACGCGGAGCTGCGCGCAAGAGCACGCCGAGCGGCTTACGCTGGACGACGTC
 ATCCAGACAGGCGTGGACAACCCGGGCCACCCGTACATCATGACCGTGGGCTGCGTGGCG
 GGCGACGAGGAGTCTACGAAGTGTCAAGGATCTCTTCGACCCCATCATCGAGGACCGG
 CACGGCGGCTACAAGCCAGCGATGAGCACAAGACCGACCTCAACCCGACAACCTGCAG
 GCGGGCGACGACCTGGACCCCACTACGTGCTGAGCTCGCGGGTGGCACGGGCCGAGC
 ATCCGTGGCTTGCCTCCCCCGCACTGCAGCCGCGGGGAGCGCCGAGCCATCGAGAAG
 CTCGCGGTGGAAGCCCTGTCCAGCCTGGACGGCGACCTGGCGGGCCGATACTACGCGCTC
 AAGAGCATGACGGAGGCGGAGCAGCAGCAGCTCATCGACGACCACTTCTCTTCGACAAG
 CCCGTGTGCGCCCTGCTGCTGGCCTCGGGCATGGCCCCGCACTGGCCCCGACGCCCGCGT
 ATCTGGCAACAATGACAATAAGACCTTCTGGTGTGGGTCAACGAGGAGGACCACTGCGG
 GTCATCTCCATGCAGAAGGGGGCAACATGAAGGAGGTGTTACCCGCTTCTGCACCGGC
 CTCACCCAGATTGAACTCTCTTCAAGTCTAAGGACTATGAGTTCATGTGGAACCCCTCAC
 CTGGGCTACATCCTCACCTGCCATCCAACCTGGGCACCGGGCTGCGGGCAGGTGTGCAT
 ATCAAGCTGCCAACCTGGGCAAGCATGAGAAGTCTCGGAGGTGCTTAAGCGGTGCGA
 CTTGAAAGCGAGGCACAGGCGGTGTGGACACGGCTGCGGTGGCGGGGCTTTCGACGTC
 TCCAACGCTGACCGCTGGGCTTCTCAGAGGTGGAGCTGGTGCAGATGGTGGTGGACGGA
 GTGAAGTGCTCATCGAGATGGAACAGCGGCTGGAGCAGGGCCAGGCCATCGACGACCTC
 ATGCTGCCAGAAATGAAGCCCGGCCACCCGACACCCAGCCCTGCTGCTTCTAACT
 TATTGCTGGGAGTGGCCACCATGCACCCCTGATGTTCCCGCTGCGGAGCCCTTAGC
 CTTGCTGTAGAGACTTCCGTACCCTTGGTAGAGTTTATTTTTTTGATGGCTAAGATACT
 GCTGATGCTGAAATAAACTAGGGTTTTGGCCTGCCTGAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire



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ACCN:	NM_001823
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_001823.3</u> , <u>NP_001814.2</u>
RefSeq Size:	1431 bp
RefSeq ORF:	1146 bp
Locus ID:	1152
UniProt ID:	<u>P12277</u>
Cytogenetics:	14q32.33
Domains:	ATP-gua_Ptrans
Protein Families:	Druggable Genome
Protein Pathways:	Arginine and proline metabolism, Metabolic pathways
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]