

# Product datasheet for TP324501M

# OriGene Technologies, Inc.

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### CKMT2 (NM\_001099735) Human Recombinant Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human creatine kinase, mitochondrial 2 (sarcomeric) (CKMT2), nuclear

gene encoding mitochondrial protein, transcript variant 2, 100 μg

Species: Human
Expression Host: HEK293T

**Expression cDNA Clone** >RC224501 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

MASIFSKLLTGRNASLLFATMGTSVLTTGYLLNRQKVCAEVREQPRLFPPSADYPDLRKHNNCMAECLTP AIYAKLRNKVTPNGYTLDQCIQTGVDNPGHPFIKTVGMVAGDEESYEVFADLFDPVIKLRHNGYDPRVMK HTTDLDASKITQGQFDEHYVLSSRVRTGRSIRGLSLPPACTRAERREVENVAITALEGLKGDLAGRYYKL SEMTEQDQQRLIDDHFLFDKPVSPLLTCAGMARDWPDARGIWHNYDKTFLIWINEEDHTRVISMEKGGNM KRVFERFCRGLKEVERLIQERGWEFMWNERLGYILTCPSNLGTGLRAGVHVRIPKLSKDPRFSKILENLR LQKRGTGGVDTAAVADVYDISNIDRIGRSEVELVQIVIDGVNYLVDCEKKLERGQDIKVPPPLPQFGKK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV** 

Tag: C-Myc/DDK
Predicted MW: 43.3 kDa

**Concentration:** >0.05 μg/μL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional

chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** NP 001093205



#### CKMT2 (NM\_001099735) Human Recombinant Protein - TP324501M

Locus ID: 1160

**UniProt ID:** P17540, A0A024RAK5

RefSeq Size: 1486
Cytogenetics: 5q14.1
RefSeq ORF: 1257
Synonyms: SMTCK

Summary: Mitochondrial creatine kinase (MtCK) is responsible for the transfer of high energy phosphate

from mitochondria to the cytosolic carrier, creatine. It belongs to the creatine kinase isoenzyme

family. It exists as two isoenzymes, sarcomeric MtCK and ubiquitous MtCK, encoded by

separate genes. Mitochondrial creatine kinase occurs in two different oligomeric forms: dimers and octamers, in contrast to the exclusively dimeric cytosolic creatine kinase isoenzymes. Sarcomeric mitochondrial creatine kinase has 80% homology with the coding exons of

ubiquitous mitochondrial creatine kinase. This gene contains sequences homologous to several motifs that are shared among some nuclear genes encoding mitochondrial proteins and thus

may be essential for the coordinated activation of these genes during mitochondrial

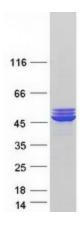
biogenesis. Three transcript variants encoding the same protein have been found for this gene.

[provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

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

# **Product images:**



Coomassie blue staining of purified CKMT2 protein (Cat# [TP324501]). The protein was produced from HEK293T cells transfected with CKMT2 cDNA clone (Cat# [RC224501]) using MegaTran 2.0 (Cat# [TT210002]).