

## Product datasheet for **SC201367**

### CKMT2 (NM\_001099735) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	CKMT2 (NM_001099735) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	CKMT2
Synonyms:	SMTCK
ACCN:	NM_001099735
Insert Size:	170 bp
Insert Sequence:	>SC201367 3'UTR clone of NM_001099735 The sequence shown below is from the reference sequence of NM_001099735. The complete sequence of this clone may contain minor differences, such as SNPs. <b>Blue</b> =Stop Codon <b>Red</b> =Cloning site  GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC CCCCCTCTGCCTCAGTTTGGCAAAAAGTAACTTTCCCTTTCCCAATTTATAAATAATCTGTCTGCTGG TACGACAGACATAAATCTCTACTCTGAGAGTTTTTATACACTTGGAAAAATATAAAATTGTAGATCCTG CCTATCTTTACAATAAACTCTCCTTAATATA <b>ACGCGT</b> AAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
Restriction Sites:	Sgfl-Mlul
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u><a href="#">NM_001099735.2</a></u>



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**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]

**Locus ID:**

1160

**MW:**

6.8