

Product datasheet for **MG206627**

Ckmt1 (NM_009897) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ckmt1 (NM_009897) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ckmt1
Synonyms:	mi-CK; Mt-CK; ScCKmit; UbCKmit
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206627 representing NM_009897 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGTCCCTTCTCCCGTCTGCTGTCTGCCCGCCCTGGACTCAGGCTCCTGGCTTTGGCTGGAGCTG
GGTCTCTACCGCCGGGATTCTGCTCCGCCCGGAATCTGTAGGAGCTGCCGCTGCTGAACGGAGGAGACT
GTATCCCCGAGCGCTGAGTACCCAGACCTCCGAAAGCACAACAACCTGCATGGCCAGTCACTGACCCCA
GCAGTCTATGCACGGCTCTGCGACAAGACCACACCCACTGGTTGGACTAGATCAGTGCATCCAGACTG
GAGTGGACAACCCTGGCCACCCCTTCATCAAGACTGTGGGCATGGTGGCTGGAGATGAGGAGACCTATGA
GGTATTTGCTGAACTGTTTGACCCTGTGATCCAAGAGCGGCATAATGGATATGACCCAGAACAATGAAG
CACACCACTGACCTTGATGCCAGTAAAATTCGTTCTGGCTACTTTGATGAGAGGTATGTATTGTCTTCAA
GAGTCAGAACTGGCCGAAGTATCAGGGGACTCAGTCTCCCTCCAGCCTGCACTCGGGCAGAGCGAAGAGA
GGTAGAACGTGTTGTGGTGGATGCTCTGAGTGGCTGAAGGGTGACCTGGCTGGACGGTACTATAGGCTC
AGTGAGATGACGGAGGCCGAACAGCAGCAGCTTATTGATGACCATTTCTGTTTGATAAACCTGTGTCCC
CATTGCTGACTGCAGCAGGAATGGCTCGAGACTGGCCTGATGCTCGAGGGATCTGGCACAACAATGAGAA
GAGTTTCTTGATCTGGGTGAATGAGGAGACCACACCGGTCTCTCTATGGAGAAAGCGGCAACATG
AAGAGAGTGTGAAAGATTCTGCCGGGCCCTCAAAGAGGTGGAGAAGCTGATCCAGGAACGAGGCTGGG
AGTTTCATGTGGAATGAGCGTTTAGGCTACATCTTGACCTGCCATCTAACCTGGGCACTGGACTTCGGGC
AGGAGTCCACATCAAACCTGCCACTGCTGAGCAAAGATAACCGCTTCCCAAAGATCCTGGAGAACCTAAGA
CTGCAAAAGCGTGGAACTGGAGGAGTGGACACGGCTGCCACAGGCAGCGTCTTTGACATCTCTAATTTGG
ATCGACTTGGCAAGTCAGAGGTGGAGCTGGTGCAGCTCGTCATCGATGGGGTGAACCTATTGATTGACTG
TGAACGGCGTCTGGAGAGAGGACAGGATATTCGAATCCCTCCACCTCTTGTCCACAGCAAACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206627 representing NM_009897
 Red=Cloning site Green=Tags(s)

MAGPF S R L L S A R P G L R L L A L A G A G S L T A G I L L R P E S V G A A A A E R R R L Y P P S A E Y P D L R K H N N C M A S H L T P
 A V Y A R L C D K T T P T G W T L D Q C I Q T G V D N P G H P F I K T V G M V A G D E E T Y E V F A E L F D P V I Q E R H N G Y D P R T M K
 H T T D L D A S K I R S G Y F D E R Y V L S S R V R T G R S I R G L S L P P A C T R A E R R E V E R V V V D A L S G L K G D L A G R Y Y R L
 S E M T E A E Q Q L I D D H F L F D K P V S P L L T A A G M A R D W P D A R G I W H N N E K S F L I W V N E E D H T R V I S M E K G G N M
 K R V F E R F C R G L K E V E K L I Q E R G W E F M W N E R L G Y I L T C P S N L G T G L R A G V H I K L P L L S K D N R F P K I L E N L R
 L Q K R G T G G V D T A A T G S V F D I S N L D R L G K S E V E L V Q L V I D G V N Y L I D C E R R L E R G Q D I R I P P L V H S K H

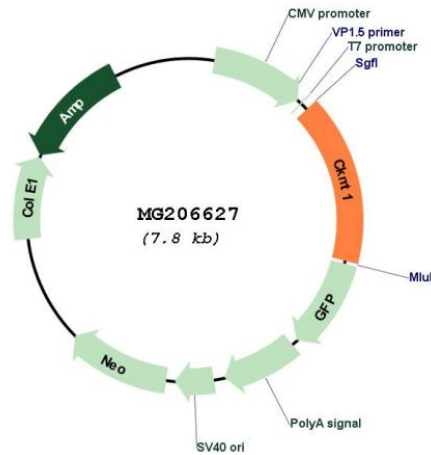
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009897

ORF Size:	1254 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_009897.2 , NP_034027.1
RefSeq Size:	1589 bp
RefSeq ORF:	1257 bp
Locus ID:	12716
UniProt ID:	P30275
Cytogenetics:	2 60.37 cM
Gene Summary:	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.[UniProtKB/Swiss-Prot Function]