

Product datasheet for **MC211770**

Ckmt2 (NM_198415) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ckmt2 (NM_198415) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ckmt2
Synonyms:	2300008A19Rik; ScCKmit
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC211770 representing NM_198415
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGTGCCTTCTCAAAGTTGCTAACTGGCCGAAATGCATCTCTGCTGTTTACTACACTGCGAACA
 GTGCCCTGACCACTGGTTACCTGCTGAATAGGCAGAAGGTATCTGCTGATGCCCGGGAACAGCACAAAGT
 CTTTCCCAAGTGCGGACTACCCTGACCTTCGAAAACATAACAACCTGCATGGCTGAGTGCCTCACCCCC
 ACCATCTATGCCAACTCCGAAACAAGATGACACCCAGTGGCTATACCCTGGACCAGTGCATCCAACTG
 GAGTGGACAACCCCGCCACCCCTTCATTAAGACTGTGGGCATGGTGGCTGGTATGAGGAGTCTGATGA
 GGTATTTGCTGACCTTTTGTCTGTCATCAAATAAGGCACAATGGCTATGACCTAGGGTGTGAAG
 CATCTACGGACCTGGATGCATCCAAGATTACTCACGGGCAGTTTGTAGAGCGCTATGTGTTGCTCTC
 GGGTACGCACTGGCCGAAGCATCCGCGGCTGAGCCTGCCTCCAGCCTGCTCCGAGCAGAGAGAAGGGA
 GGTGGAGAATGTGGCCATTACTGCCCTGGAGGGCCTGAAGGGCGATCTGGCTGGCCGCTACTACAAGCTG
 TCTGAGATGACGGAGCAGGATCAGCAACGCTCATCGATGACCACTTTCTGTTTGATAAGCCAGTGTCCC
 CTTTACTAACATGTGCTGGAATGGCCCGTGACTGGCCTGATGCCAGGGGAATCTGGCATAATTATGACAA
 GACATTTCTCATCTGGATAAATGAGGAAGACCACACAGGGTGTCTCAATGGAAAAGGGAGGCAATATG
 AAACGCGTATTTGAGAGATTCTGTCTGGGACTAAAGGAAGTGGAAACGATTAATCCAGGAACGAGGCTGGG
 AGTTCCATGTGGAATGAGCGTCTGGGATACATTTGACTTGCCCTCGAACCTCGGAACCTGGATTGCGAGC
 TGGTGTCCACGTTAGGATCCCGAAGCTCAGCAAGGATCCACGCTTTTCTAAGATCTTGGAGAACCTGCGG
 CTCCAAAAGCGTGGCACAGGTGGTGTGGACACTGCTGCAGTGGCAGATGTGTACGATATTTCCAACATAG
 ATCGGATCGGCAGATCAGAGGTTGAGCTTGTTTCAGATTGTTATTGACGGAGTCAACTACCTGGTGGATTG
 TGAAGAAGCTGGAGAGAGGCCAAGACATCAAGGTGCCCCCTCTGCCTCAGTTTGGCAGGAAGTGA
 AGCGGACCG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2362_c07.zip

Restriction Sites: SgfI-RsrII

ACCN: NM_198415

Insert Size: 1269 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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>BC061221</u> , <u>AAH61221</u>
RefSeq Size:	1516 bp
RefSeq ORF:	1260 bp
Locus ID:	76722
UniProt ID:	<u>Q6P8J7</u>
Cytogenetics:	13 C3
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 (By similarity).[UniProtKB/Swiss-Prot Function]