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Product datasheet for MR206627

Ckmt1 (NM_009897) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ckmt1 (NM_009897) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ckmt1
Synonyms:	mi-CK; Mt-CK; ScCKmit; UbCKmit
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206627 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGGTCCCTTCTCCCGTCTGCTGTCTGCCCGCCCTGGACTCAGGCTCCTGGCTTTGGCTGGAGCTG
GGTCTCTCACCGCCGGGATTCTGCTCCGCCCGGAATCTGTAGGAGCTGCCGCTGCTGAACGGAGGAGACT
GTATCCCCCGAGCGCTGAGTACCCAGACCTCCGAAAGCACAACAACTGCATGGCCAGTCACCTGACCCCA
GCAGTCTATGCACGGCTCTGCGACAAGACCACACCCACTGGTTGGACACTAGATCAGTGCATCCAGACTG
GAGTGGACAACCCTGGCCACCCCTTCATCAAGACTGTGGGCATGGTGGCTGGAGATGAGGAGACCTATGA
GGTATTTGCTGAACTGTTTGACCCTGTGATCCAAGAGCGGCATAATGGATATGACCCCAGAACAATGAAG
CACACCACTGACCTTGATGCCAGTAAAATTCGTTCTGGCTACTTTGATGAGAGGTATGTATTGTCTTCAA
GAGTCAGAACTGGCCGAAGTATCAGGGGACTCAGTCTCCCTCCAGCCTGCACTCGGGCAGAGCGAAGAGA
GGTAGAACGTGTTGTGGTGGATGCTCTGAGTGGCCTGAAGGGTGACCTGGCTGGACGGTACTATAGGCTC
AGTGAGATGACGGAGGCCGAACAGCAGCAGCTTATTGATGACCATTTTCTGTTTGATAAACCTGTGTCCC
CATTGCTGACTGCAGCAGGAATGGCTCGAGACTGGCCTGATGCTCGAGGGATCTGGCACAACAATGAGAA
GAGTTTCTTGATCTGGGTGAATGAGGAGGACCACACACGGGTCATCTCTATGGAGAAAGGCGGCAACATG
AAGAGAGTGTTTGAAAGATTCTGCCGGGGCCTCAAAGAGGTGGAGAAGCTGATCCAGGAACGAGGCTGGG
AGTTCATGTGGAATGAGCGTTTAGGCTACATCTTGACCTGTCCATCTAACCTGGGCACTGGACTTCGGGC
AGGAGTCCACATCAAACTGCCACTGCTGAGCAAAGATAACCGCTTCCCAAAGATCCTGGAGAACCTAAGA
CTGCAAAAGCGTGGAACTGGAGGAGTGGACACGGCTGCCACAGGCAGCGTCTTTGACATCTCTAATTTGG
ATCGACTTGGCAAGTCAGAGGTGGAGCTGGTGCAGCTCGTCATCGATGGGGTGAACTATTTGATTGACTG
TGAACGGCGTCTGGAGAGAGGACAGGATATTCGAATCCCTCCACCTCTTGTCCACAGCAAACAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

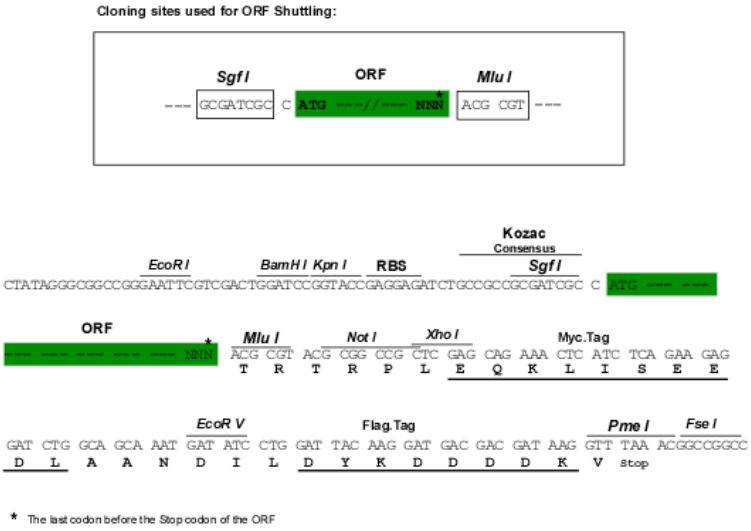
>MR206627 protein sequence
Red=Cloning site Green=Tags(s)

MAGPFSRLLSARPGLRLLALAGAGSLTAGILLRPESVGAAAAERRRLYPPSAEYPDLRKHNNCMASHLTP
AVYARLCDKTTPTGWTLDQCIQTGVDNPGHPFIKTVGMVAGDEETYEVFAELFDPVIQERHNGYDPRTMK
HTTDLDASKIRSGYFDERYVLSSRVRTGRSIRGLSLPPACTRAERREVERVVVDALSGLKGDLAGRYYRL
SEMTEAEQQQLIDDHFLFDKPVSPLLTAAGMARDWPDARGIWHNNEKSFLIWVNEEDHTRVISMEKGGNM
KRVFERFCRGLKEVEKLIQERGWEFMWNERLGYILTCPSNLGTGLRAGVHIKLPLLSKDNRFPKILENLR
LQKRGTGGVDTAATGSVFDISNLDRLGKSEVELVQLVIDGVNYLIDCERRLERGQDIRIPPPLVHSKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009897

ORF Size: 1257 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:
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_009897.1, NM_009897.2, NP_034027.1

RefSeq Size: 1589 bp

RefSeq ORF: 1257 bp

Locus ID: 12716

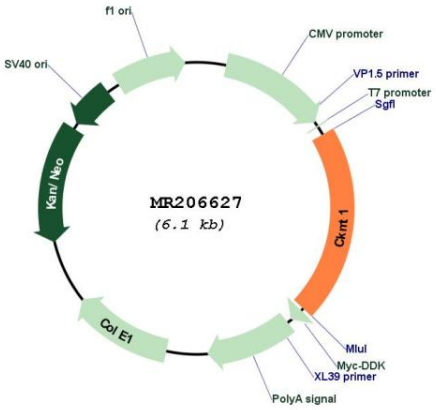
UniProt ID: P30275

Cytogenetics: 2 60.37 cM

MW: 47 kDa

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]

Product images:



Circular map for MR206627