

Product datasheet for RR214283

Ckmt2 (NM_001127652) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ckmt2 (NM_001127652) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ckmt2
Synonyms:	MGC187999
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR214283 representing NM_001127652 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAGTGCCTTCTCTAAGTTGCTAACTGGCCGAAATGCATCTCTGCTGTTTACGACACTGGGAACCA
GTGCCCTGACCACGGGTACCTGTTGAATAGGCAGAAGGTATCTGCTGATGCCCGGGAACAGCACAAGCT
CTTTCCCAAGTGCAGACTATCCTGACCTTCGAAAACATAACAACCTGCATGGCCGAGTGCCTCACCCCA
ACCATCTATGCCAACTCCGAAACAAGATGACACCCAGTGGCTATACCCTGGACCAAGTGCATCCAAACCG
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ATCGGATCGGTAGATCTGAGGTTGAGCTTGTTTCAAGATTTGACGGAGTCACTACCTGGTGGATTG
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TGGATTACAAGGATGACGACGATAAGGTTTAA



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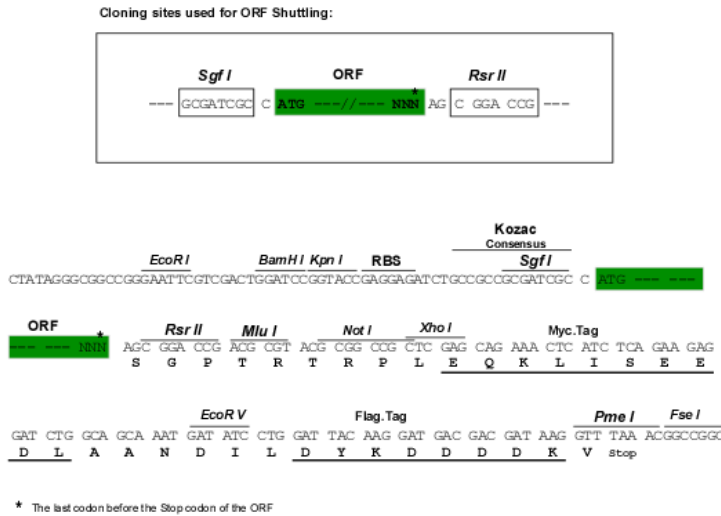
Protein Sequence: >RR214283 representing NM_001127652
 Red=Cloning site Green=Tags(s)

MASAFSKLLTGRNASLLFRTLGTSLTTGYLLNRQKVSADAREQHKLFPSPADYDRLRKHNNCMAECLTP
 TIYAKLRNKMTPSGYTLDQCIQTGVDNPGHPFIKTVMVAGDEESYEVFADLFDPVIKLRHNGYDPRVMK
 HPTDL DASKITHGQFDERYVLSRVRTGRSIRGLSLPPACSRARREVENVAITALEGLKGDLAGRYK
 SEMTEQDQQLIDDHFLFDKPVSPLLTCAGMARDWPDARGIWHNYDKTFLIWIWNEEDHTRVISMKEKGGNM
 KRVFERFCRGLKEVERLIQERGWEFMWNERLGYILTCPSNLGTGLRAGVHVRIPKLSKDPFRFSKILENLR
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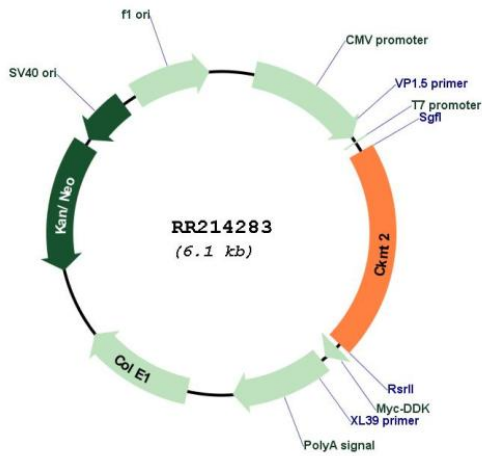
SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001127652

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:	<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_001127652.1 , NP_001121124.1
RefSeq Size:	1468 bp
RefSeq ORF:	1260 bp
Locus ID:	688698
Cytogenetics:	2q12
MW:	47.5 kDa
Gene Summary:	sarcomeric mitochondrial creatine kinase isozyme; catalyzes the transfer of phosphate to creatine in energy transduction [RGD, Feb 2006]