

Product datasheet for SC119007

Creatine kinase M type (CKM) (NM_001824) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Creatine kinase M type (CKM) (NM_001824) Human Untagged Clone
Tag:	Tag Free
Symbol:	Creatine kinase M type
Synonyms:	CKMM; CPK-M; M-CK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119007 sequence for NM_001824 edited (data generated by NextGen Sequencing)

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ATGCCATTGCGTAACACCCACAACAAGTTCAAGCTGAATTACAAGCCTGAGGAGGAGTAC
CCCGACCTCAGCAAACATAACAACCACATGGCCAAGTACTGACCCTTGAACCTACAAG
AAGCTGCGGGACAAGGAGACTCCATCTGGCTTCACTGTAGACGATGTCATCCAGACAGGA
GTGGACAACCCAGGTCACCCCTTCATCATGACCGTGGGCTGCGTGGTGGTATGAGGAG
TCCTACGAAGTTTTCAAGGAACCTTTGACCCCATCATCTCGGATCGCCACGGGGCTAC
AAACCCACTGACAAGCACAAGACTGACCTCAACCATGAAAACCTCAAGGGTGGAGACGAC
CTGGACCCCAACTACGTGCTCAGCAGCCGCTCCGCACTGGCCGACGATCAAGGGCTAC
ACGTTGCCCCCACTGCTCCCGTGGCGAGCGCCGGGCGGTGGAGAAGCTCTCTGTGGAA
GCTCTCAACAGCCTGACGGGCGAGTTCAAAGGGAAGTACTACCCTCTGAAGAGCATGACG
GAGAAGGAGCAGCAGCAGCTCATCGATGACCACTTCTGTTCGACAAGCCCGTGTCCCGG
CTGCTGCTGGCCTCAGGCATGGCCCGGACTGGCCCGACGCCCGTGGCATCTGGCACAAT
GACAACAAGAGCTTCTGGTGTGGGTGAACGAGGAGGATCACCTCCGGGTGATCTCCATG
GAGAAGGGGGGCAACATGAAGGAGGTTTTCCGCGCTTCTGCGTAGGGCTGCAGAAGATT
GAGGAGATCTTTAAGAAAGCTGGCCACCCCTTCATGTGGAACAGCACCTGGGCTACGTG
CTCACCTGCCATCCAACCTGGGCACTGGGCTGCGTGGAGGCGTGCATGTGAAGCTGGCG
CACCTGAGCAAGCACCCCAAGTTCGAGGAGATCCTCACCCGCTGCGTCTGCAGAAGAGG
GGTACAGGTGGCGTGGACACAGCTGCCGTGGGCTCAGTATTTGACGTGTCCAACGCTGAT
CGGCTGGGCTCGTCCGAAGTAGAACAGGTGCAGCTGGTGGTGGATGGTGTGAAGCTCATG
GTGGAAATGGAGAAGAAGTTGGAGAAAGGCCAGTCCATCGACGACATGATCCCGCCAG
AAGTAG

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Clone variation with respect to NM_001824.3
369 t=>c;1119 t=>c



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001824 unedited
 TGTAATACGACTCACTATAGNNGCGGCCGAAATTCGGCACGAGGGTCACCTCCAGGA
 TACAGACAGCCCCCTTCAGCCCAGCCAGCCAGGTCTCTACACCGCCACCATGCCATT
 CGGTAACACCCACAACAAGTTCAAGCTGAATTACAAGCCTGAGGAGGAGTACCCCGACCT
 CAGCAAACATAACAACCACATGGCCAAGTACTGACCCCTGAACTCTACAAGAAGCTGCC
 GGACAAGGAGACTCCATCTGGCTTCACTGTAGACGATGTCATCCAGACAGGAGTGGACAA
 CCCAGGTCACCCCTTCATCATGACCGTGGGCTGCGTGGCTGGTGTGAGGAGTCCACGA
 AGTTTTCAAGGAACTCTTTGACCCCATCATCTCGGATCGCCACGGGGGCTACAAACCCAC
 TGACAAGCACAAGACTGACCTCAACCATGAAAACCTCAAGGGTGGAGACGACCTGGACCC
 CAACTACGTGCTCAGCAGCCGCTCCGCACTGGCCGAGCATCAAGGGCTACACGTTGCC
 CCCACACTGCTCCCGTGGCGAGCGCCGGGCGGTGGAGAAGCTCTCTGTGGAAGCTCTCAA
 CAGCCTGACGNGCAGTTCAAAGGGAAGTACTACCCTTTGAAGAGCATGACCGAGAAGGA
 GCAGCAGCAGCTCATCGATGACCACTTTCTGTTGACAAGCCCGTGTCCCGCTGGTGT
 GCCCTAAGCATGGCCGGGACTGGCCGAGCCCGTGGCATCTTGACAATGACACAAGAG
 CTTCTGGTGTGGATGACGAAGGAGATCACCTCGGGTCATCTCATGAAAAGGGGGACAT
 GAAGGAGTTTTTCCGCCCTTTTCGCTAGGCTGCAAAGATTGAAGAAATCTTAAAAAGCTG
 GCACCCCTTTAGTGAACCAAGCACTGTGTTACGGCTACCTGCCATCCACTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001824 unedited
 ATAAGGACGCGGCCCCATTCAAGGGCGGGTTTTTTTTTTTTTTTTTTAGGCGCCCGATGC
 TTTTATTTATCGCTTTGCGTGGAGACAAAGCACAAGCTCCGAGTGTGCTGGGAGCTGTCC
 ATTAAGTACGCTCCTGGTTGGGGCGGAGCTCTGGGAAAAGAAGACGACCCTGCCCGGA
 GATATTTCACTTGCCAGAATCCAGAGGATGGAGCCCATCGGTTGGAACCTCTGGCTGAAA
 CTGGAACCTCTGAGAAGGGCGGAGAGAGCCCCAGGTGGGACTCTGGGACATGGGGCGGGG
 CGAGGAGTGAGGGACCAAGACTCTGGCGGGCCAGGCCCTCCGCTGGCTGGGTTCCAGCC
 ATCGGAGGCAGGTGGGTGATGCGCCTGCTTGTGGGCGGAGGAGATGACGGCGATCGGAAT
 GGCTCTTTCCGTCTTATCCTCCCGTTGCGCCATGCCCTTCCACCCCTGGACCATGGACT
 GAATCTGTTCTGGGTCTACCCGCTAGTCGATCCGTGTGGGGCTCTCCGACGCTGGTC
 CGGGGGCGGGCTTTGGGCTATCCCGCTTAGCCCGCTTCGGCAGGCCGGGGCCCGTGATT
 ATCTTTCCCGACGCGCGCGTATGATAGAGGCCCGCATCGCAACGACAGTTGCAC
 GAATCCCTCGATATCCCGTCCGCGGGTCCGCTCCAGCCATAACATGCAAGGGTGGCGGAT
 TCCTTTATCGTATCCGATGTTCCCGGAGCGTTTCGGGTCCGCTCGTTCCCGTCCGCG
 TGCAATGGATGGCCCTCGCGCTGCGGAACCACCTTAGAGATAGAGAGTACGGGAAGT
 GGAGACTGGGGTACTGCCTCGTACGGCAATGGCTTGGTACTTCTACAGCACAAGCCAG
 GCTTGTCCGGTCCAAGTGTGGCCCGCGGTATACACTCTAAGAGCGGCACGCGGGTGT
 ATGCTTGTGGCTGCGCGCCGCGCTCCG

Restriction Sites:

NotI-NotI

ACCN:

NM_001824

Insert Size:

1700 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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>NM_001824.2</u> , <u>NP_001815.2</u>
RefSeq Size:	1620 bp
RefSeq ORF:	1146 bp
Locus ID:	1158
UniProt ID:	<u>P06732</u>
Cytogenetics:	19q13.32
Domains:	ATP-gua_Ptrans
Protein Families:	Druggable Genome
Protein Pathways:	Arginine and proline metabolism, Metabolic pathways
Gene Summary:	The protein encoded by this gene is a cytoplasmic enzyme involved in energy homeostasis and is an important serum marker for myocardial infarction. The encoded protein reversibly catalyzes the transfer of phosphate between ATP and various phosphogens such as creatine phosphate. It acts as a homodimer in striated muscle as well as in other tissues, and as a heterodimer with a similar brain isozyme in heart. The encoded protein is a member of the ATP:guanido phosphotransferase protein family. [provided by RefSeq, Jul 2008]