

Product datasheet for **RG202721**

Creatine kinase M type (CKM) (NM_001824) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Creatine kinase M type (CKM) (NM_001824) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Creatine kinase M type
Synonyms:	CKMM; CPK-M; M-CK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202721 representing NM_001824 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCATTCGGTAACACCCACAACAAGTTCAGCTGAATTACAAGCCTGAGGAGGAGTACCCCGACCTCA
GCAAACATAACAACCACATGGCCAAGGACTGACCCTTGAAGCTTACAAGAAGCTGCGGGACAAGGAGAC
TCCATCTGGCTTCACTGTAGACGATGTCATCCAGACAGGAGTGGACAACCCAGGTCACCCCTTCATCATG
ACCGTGGGCTGCGTGGTGGTATGAGGAGTCTACGAAGTTTTCAAGGAAGCTTTGACCCCATCATCT
CGGATCGCCACGGGGCTACAAACCCACTGACAAGCACAAGACTGACCTCAACCATGAAAACCTCAAGGG
TGGAGACGACCTGGACCCAACTACGTGCTCAGCAGCCGCGTCCGCACTGGCCGCAGCATCAAGGGCTAC
ACGTTGCCCCCACTGCTCCCGTGCGAGCGCCGGCGGTGGAGAAGCTCTCTGTGGAAGCTCTCAACA
GCCTGACGGGCGAGTTCAAAGGGGAAGTACTACCCTCTGAAGAGCATGACGGAGAAGGAGCAGCAGCAGCT
CATCGATGACCACTTCTGTTCGACAAGCCCGTGTCCCGCTGCTGCTGGCCTCAGGCATGGCCCGCGAC
TGGCCCGACGCCCGTGGCATCTGGCACAATGACAACAAGAGCCTCCTGGTGTGGGTGAACGAGGAGGATC
ACCTCCGGGTCACTCCATGGAGAAGGGGGCAACATGAAGGAGGTTTTCCGCCGCTTCTGCGTAGGGCT
GCAGAAGATTGAGGAGATCTTTAAGAAAGCTGGCCACCCCTTCATGTGGAACAGCACCTGGGCTACGTG
CTCACCTGCCATCCAACCTGGGCACTGGGCTGCGTGGAGCGTGCATGTGAAGCTGGCGCACCTGAGCA
AGCACCCCAAGTTCGAGGAGATCCTCACCCGCTGCGTCTGCAGAAGAGGGGTACAGGTGGCGTGGACAC
AGCTGCCGTGGGCTCAGTATTTGACGTGTCCAACGCTGATCGGCTGGGCTCGTCCGAAGTAGAACAGGTG
CAGCTGGTGGTGGATGGTGTGAAGCTCATGGTGGAAATGGAGAAGAAGTTGGAGAAGGCCAGTCCATCG
ACGACATGATCCCGCCAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202721 representing NM_001824
 Red=Cloning site Green=Tags(s)

MPFGNTHNKFKLNYKPEEEYPDL SKHNNHMAKVL TLELYKKLRDKETPSGFTVDDVIQTGVDNPGHPFIM
 TVGCVAGDEESYEVFKELFDPIISDRHGGYKPTDKHKTDLNHENLKGDDLDPNYVLSRVRTGRSISKGY
 TLPPHCSRGERRAVEKLSVEALNSLTGEFKGKYPLKSMTEKEQQQLIDDHFLFDKPVSPLLLASGMARD
 WPDARGIWHNDNKSLLVVWNEEDHLRVISMEKGGNMKEVFRFCVGLQKIEEIFKKAGHPFMWNQHLGYV
 LTCPSNLGTGLRGGVHVKLAHL SKHPKFEEILTRLRLQKRGTGGVDTAAVGSVFDVSNADRLGSSEVEQV
 QLVVDGVKLMVEMEKKLEKQSIDDMIPAQK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001824

ORF Size: 1143 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_001824.2](#), [NP_001815.2](#)

RefSeq Size: 1620 bp

RefSeq ORF: 1146 bp

Locus ID: 1158

UniProt ID: [P06732](#)

Cytogenetics: 19q13.32

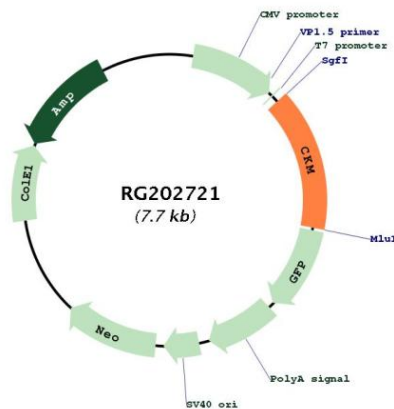
Domains: ATP-gua_Ptrans

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]

Product images:



Circular map for RG202721