

## Product datasheet for **RR201324**

### Ckmt1 (NM\_001012738) Rat Tagged ORF Clone

#### Product data:

|                          |  |
|--------------------------|--|
| Product Type:            | Expression Plasmids  |
| Product Name:            | Ckmt1 (NM_001012738) Rat Tagged ORF Clone                                      |
| Tag:                     | Myc-DDK  |
| Symbol:                  | Ckmt1  |
| Synonyms:                | Ckmt1b   |
| Vector:                  | pCMV6-Entry (PS100001)   |
| E. coli Selection:       | Kanamycin (25 ug/mL)   |
| Cell Selection:          | Neomycin   |
| ORF Nucleotide Sequence: | >RR201324 representing NM_001012738<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTGGTCCCTTCTCCCGTCTGCTGTCTGCCGCCCGGACTCAAGCTCCTGGCTTTGGCTGGAGCTG  
GGTCTCTCGCCGCGGGATTCTGCTCCGGAATCTGTACGAGCGCCACCGTGAACGGAGGAGACT  
GTATCCCCGAGCGCTGAGTACCCAGACCTCCGAAAGCACAACAAGTGCATGGCCAGTCACTGACCCCA  
GCAGTCTATGCACGGCTCTGCGACAAGACCACACCCACTGGCTGGACACTAGATCAGTGCATCCAGACTG  
GAGTGGACAACCCTGGCCACCCCTTCATCAAGACTGTGGGCATGGTGGCTGGAGATGAGGAGACCTATGA  
GGTATTTGCCGAAGTGTGGACCTGTGATCCAAGAGCGGCATAATGGATATGACCTAGAACAATGAAG  
CACACCACTGACCTTGATGCCAGCAAAATCCGTTCTGGCTACTTTGATGAGAGGTACGTATTGTCCTCAA  
GAGTCAGAAGTGGCCGAAGTATCAGGGGACTCAGTCTCCCTCCAGCCTGCACTCGGGCAGAGCGACGAGA  
GGTGGAGCGTGTGTGGTGGACGCGCTGAGTGGCCTGAAGGGCGACCTGGCTGGACGGTACTACAGGCTC  
AGTGAGATGACAGAGGCTGAGCAGCAGCAGCTTATTGACGACATTTCTGTTTGATAAACCTGTGTCCC  
CATTGCTGACAGCAGCAGGCATGGCTCGAGACTGGCCAGATGCCGAGGAATCTGGCACAACAATGAGAA  
GAGTTTCTTGATCTGGGTGAATGAGGAGGACCACACCGGTCATCTCTATGGAGAAAGCGGCAACATG  
AAGAGAGTGTGGAAAGATTCTGCCGGGCCTCAAAGAGGTGGAGAAGCTGATCCAGGAACGAGGCTGGG  
AGTTTATGTGGAATGAGCGTTTAGGATACATCTTGACCTGTCCATCTAACCTGGGCACTGGACTTCGGGC  
AGGAGTACACGTCAAAGTCCACTGCTAAGCAAAGATAGCCGCTTCCCAAAGATCCTGGAGAACCTAAGG  
CTGCAAAGCGTGGGACTGGAGGAGTGGACACGGCTGCCACAGGCAGTGTCTTTGACATCTAATCTGG  
ATCGACTTGGCAAGTCAAGGTTGAGCTGGTGCAGCTGGTCATCGATGGGGTGAAGTATTTGATTGACTG  
TGAACGGCGTCTGGAGAAAGGACAGGATATTCGAATCCCTCCACCTCTTGTCCACGGCAAACAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

**Protein Sequence:** >RR201324 representing NM\_001012738  
Red=Cloning site Green=Tags(s)

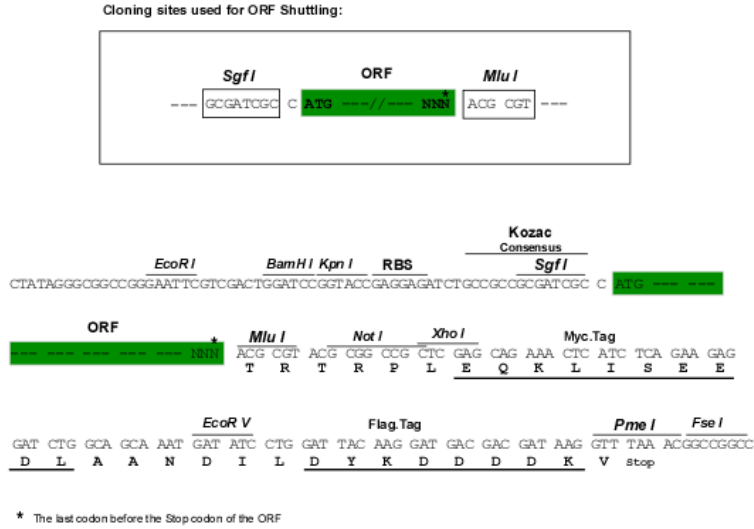
MAGPFSRLLSARPLKLLALAGAGSLAAGILLRPESVRAATGERRRLYPPSAEYDPLRKHNHNCMASHLTP  
 AVYARLCDKTTPTGWTLDQCIQTGVDNPGHPFIKTVGMVAGDEETYEVEAELFDPVIQERHNGYDPRMTK  
 HTTDL DASKIRSGYFDERIVLSSRVRTGRSIRGLSLPPACTRAERREVERVVVDAL SGLKGDLAGRYRRL  
 SEMTEAEQQQLIDDFLFDKPVSPLLTAAGMARDWPDARGIWHNNEKSFLIWWNEEDHTRVISMKEKGGNM  
 KRVFERFCRGLKEVEKLIQERGWEFMWNERLGYILT CPSNLGTGLRAGVHVKLPLL SKDSRFPKILENLR  
 LQKRGTGGVDTAATGSVFDISNLDRLGKSEVELVQLVIDGVNYLIDCERRLEKGDQIRIPPLVHGKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

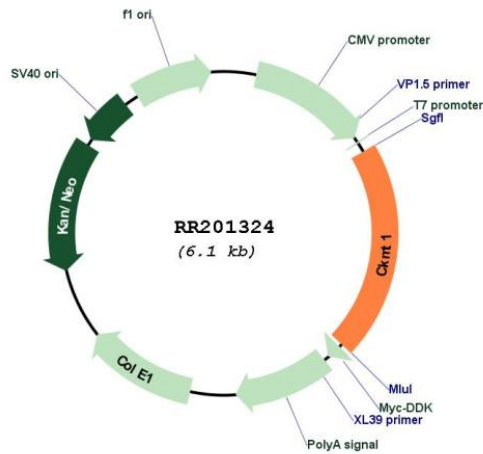
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001012738

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1254 bp   |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <a href="#">NM_001012738.1</a> , <a href="#">NP_001012756.1</a>   |
| <b>RefSeq Size:</b>           | 1607 bp   |
| <b>RefSeq ORF:</b>            | 1257 bp   |
| <b>Locus ID:</b>              | 29593   |
| <b>Cytogenetics:</b>          | 3q35  |
| <b>MW:</b>                    | 47 kDa  |
| <b>Gene Summary:</b>          | ubiquitous mitochondrial creatine kinase isozyme; catalyzes the transfer of phosphate to creatine in energy transduction [RGD, Feb 2006]  |