

## Product datasheet for **MG222365**

### Ckm (NM\_007710) Mouse Tagged ORF Clone

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | Ckm (NM_007710) Mouse Tagged ORF Clone                                      |
| Tag:                      | TurboGFP                                                                    |
| Symbol:                   | Ckm                                                                         |
| Synonyms:                 | Ckmm; CPK-M; M-CK; MCK                                                      |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >MG222365 representing NM_007710<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGTTTCGGCAACACCCACAACAAGTTCAAGCTGAACTACAAGCCTCAGGAGGAGTACCCAGACCTCA  
GCAAGCACAACAATCACATGGCCAAGGTGCTGACCCCTGACCTCTACAATAAGCTTCGCGATAAGGAGAC  
ACCATCCGGCTTCACTCTGGACGATGTCATCCAGACTGGGGTGGACAACCCAGGTCACCCCTTCATCATG  
ACGGTGGGCTGTGTGGCCGGCGATGAGGAGTCTACACGGTCTTCAAGGACCTGTTTATCCCATCATCC  
AGGACCCGATGGCGGCTACAAACCCACAGACAAGCATAAGACCGACCTCAACCACGAGAACCTCAAGGG  
TGGAGACGACCTGGACCCAACTATGTGCTGAGCAGCCGGTGGCAGCTGGCCGACGATCAAGGGTTAC  
ACTCTGCCTCCGCACTGCTCCCGTGGAGAGCGCGTGCAGTGGAGAAGCTGTCCGTGGAAGCTCTCAACA  
GCCTGACGGGCGAGTTCAAGGGCAAGTACTACCCTCTGAAGAGCATGACGGAGCAGGAACAGCAGCAGCT  
CATTGATGACCACTTCTGTTTGACAAGCCCGTGTACCTCTGCTGCTGGCCTCAGGATGGCCCGAGAC  
TGGCCCGATGCCCGTGGCATCTGGCACAACGACAACAAAAGCTTCTTGTGTGGTGAACGAGGAGGACC  
ACCTCCGCGTGATCTCCATGGAGAAGGGAGGCAATATGAAGGAGGTTTTCCGCGCTTCTGCGTGGGCT  
GCAGAAGATTGAGGAGATCTTCAAGAAGGCTGGTCACCCCTTCATGTGGAACGAGCACCTGGGCTACGTG  
CTCACCTGCCCTCCAACCTGGGCACCGGGCTGCGCGGAGGCGTGCACGTGAAGCTGGCGAACCTGAGCA  
AGCACCCCAAGTTTGAAGGAGATTCTCACTCGCCTTCGCTGCAGAAGCGCGGCACAGGTGGCGTGGACAC  
GGCTGCGGTGGGCGCCGTGTTTCGACATCTCCAACGCCGATCGGCTGGGCTCATCCGAAGTGAACAGGTG  
CAGCTGTTGGTGGATGGCGTGAAGCTTATGGTGGAGATGGAGAAGAAGCTGGAAAAGGGCCAGTCCATCG  
ACGACATGATCCCGCGCAGAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG222365 representing NM\_007710  
 Red=Cloning site Green=Tags(s)

MPFGNTHNKFKNLYKQEEYPDL SKHNNHMAKVL TPDLYNKL RDKETPSGFTLDDVIQTGVDNPGHPFIM  
 TVGCVAGDEESYTVFKDLFDPIIQDRHGGYKPTDKHKTDLNHENLKGDDLDPNYVLSRVRTGRSISKGY  
 TLPPHCSRGERRAVEKLSVEALNSLTGEFKGKYPLKSMTEQEQQQLIDDHFLFDKPVSPLLLASGMARD  
 WPDARGIWHNDNKSFLVWVNEEDHLRVI SMEKGGNMKEVFRFCVGLQKIEEIFKKAGHPFMWNEHLGYV  
 LTCPSNLGTGLRGVHVKLANLSKHPKFEEILTRLRLQKRGTGGVDTAAVGA VFDISNADRLGSSEVEQV  
 QLVVDGVKLMVEMEKLEKQSIDDMIPAQK

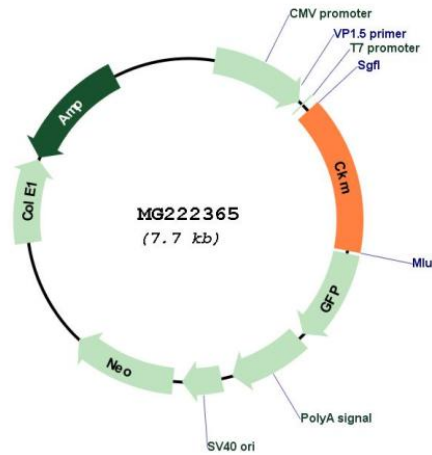
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_007710

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ORF Size:</b>              | 1143 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_007710.2</a> , <a href="#">NP_031736.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 1415 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>RefSeq ORF:</b>            | 1146 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Locus ID:</b>              | 12715                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID:</b>            | <a href="#">P07310</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Cytogenetics:</b>          | 7 9.67 cM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Gene Summary:</b>          | Reversibly catalyzes the transfer of phosphate between ATP and various phosphogens (e.g. creatine phosphate). Creatine kinases 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]                                                                                                                                                                                                |