

Product datasheet for **RR200622**

Cmpk1 (NM_001025655) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cmpk1 (NM_001025655) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cmpk1
Synonyms: CK; Cmpk; RGD1310116
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR200622 representing NM_001025655
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGCAGCTGTCGTCGCTGGCTGCTGCACGTCCTGGTCCCAGCTTCCCGCCGCTAACCCGGGAC
TGCGGTTCTTCCCTCTCCAACCTCATGAAGCCGTTGGTCGTGTTTCGTTTTGGGCGGGCCCGGTGCGGGCAA
GGGGACCCAGTGC GCGCATTGTTGAGAAATATGGCTACACACACCTTTCTGCAGGAGAGCTTCTTCGT
GATGAAAGGAAGAATCCAGATTCACAGTATGGTGAACCTATTGAAAAGTACATTAAGAAGGAAAGATTG
TACCAGTTGAGATAACCATCAGTTTATTAAGAGGGAAATGGACCAAACAATGGCTGCCAATGCTCAGAA
GAATAAATTTGATTGATGGCTTTCCAAGAAATCAAGACAACCTTCAGGTTGGAACAAGACCATGGAT
GGGAAAGCAGATGTATCTTTTGTCTGTTTTTACTGTAATAATGAGATCTGTATTGACCGATGTCTTG
AAAGGGGAAAAAGTAGTGGTAGGAGTGATGACAACAGAGAGAGCTTGAAAAGAGAATTCAGACTTATCT
TGAATCAACAAAACCAATTATTGACCTATATGAAGAAATGGGCAAAGTCAAGAAAATAGACGCTTCTAAG
TCTGTTGATGAAGTTTTTGGTGACGTTATGAAGATTTTTGACAAAGAAGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR200622 representing NM_001025655
 Red=Cloning site Green=Tags(s)

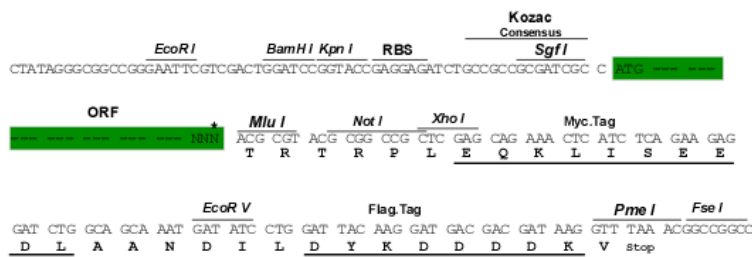
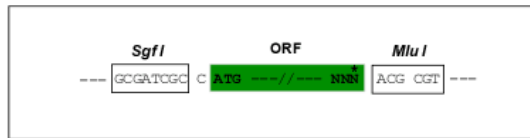
MLSSCRRWLLHVLVPSFPPLTRGLRFFPLQLMKPLVVFVLGGPGAGKGTQCARIVEKYGYTHLSAGELLR
 DERKNPDSQYGELIEKYIKEGKIVPVEITISLLKREMDQMAANAQKNKFLIDGFPRNQDNLQGWNKMTD
 GKADVSFVLFDFCNNEICIDRCLERKSSGRSDDNRESLEKRIQTYLESTKPIIDL YEEMGKVKKIDASK
 SVDEVFGDVMKIFDKEG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

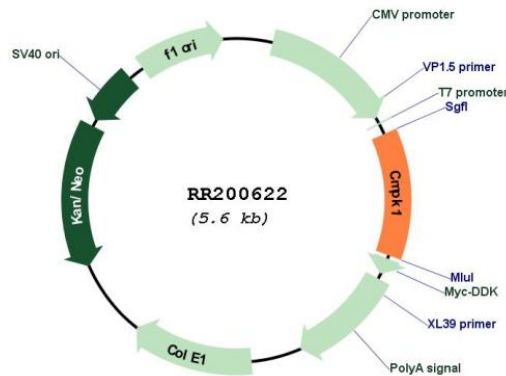
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001025655

ORF Size: 681 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_001025655.1 , NP_001020826.1
RefSeq Size:	1871 bp
RefSeq ORF:	684 bp
Locus ID:	298410
UniProt ID:	Q4KM73
Cytogenetics:	5q35
MW:	25.8 kDa
Gene Summary:	Catalyzes the phosphorylation of pyrimidine nucleoside monophosphates at the expense of ATP. Plays an important role in de novo pyrimidine nucleotide biosynthesis. Has preference for UMP and CMP as phosphate acceptors. Also displays broad nucleoside diphosphate kinase activity.[UniProtKB/Swiss-Prot Function]