

Product datasheet for **MR202693**

Cmpk1 (NM_025647) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cmpk1 (NM_025647) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cmpk1
Synonyms:	0610011D08Rik; CK; Cmpk; UMP-CMPk
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202693 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGAGCAGCTGTCGTCGGCTGCTCCCGCACGTCTGGTCCCGAGCTGCCCGCCGCTGACCCGCAGAC
TGTGGCTCTTTCCTCTCCACCTCATGAAGCCGTTGGTCGTGTTTCGTTTTGGGCGGGCCCGGTGCGGGCAA
GGGGACCCAGTGC GCGCATTGTCGAGAAATACGGCTACACACACCTTTCTGCAGGAGAGCTTCTTCGT
GATGAAAGGAAGAATCCAGACTCACAGTATGGTGAACCTATTGAAAAGTACATTAAGAAGGAAAGATTG
TACCAGTTGAGATAACCATCAGTTTATTAAGAGGGAAATGGACCAACAATGGCTGCTAATGCTCAGAA
GAATAAATCTTGATTGATGGATTTCCAAGAAATCAAGACAACCTTCAAGGTTGGAACAAAACCATGGAT
GGAAAAGCAGATGTATCTTTTGTCTGTTTTTACTGTAATAATGAGATCTGTATTGAACGATGTCTTG
AAAGGGGAAAAAGTAGTGGTAGGAGTGACGACAACAGAGAGAGCTTGAAAAGAGAATTCAGACTTACCT
TGAATCAACGAAACCAATTATTGACTTATATGAAGAAATGGGGAAAGTCAAGAAGATAGATGCTTCTAAG
TCTGTTGATGAAGTTTTTGGTGAAGTTGTGAAGTTTTTGACAAAGAAGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202693 protein sequence
Red=Cloning site Green=Tags(s)

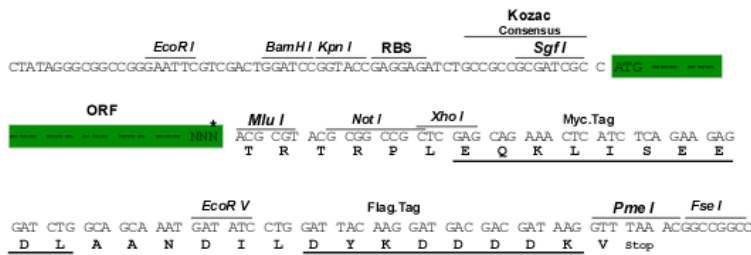
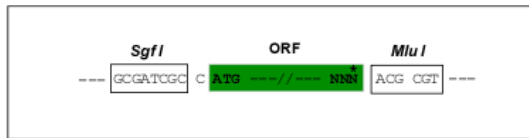
MLSSCRLLPHVLVPSCPPLTRRLWLFPLHLMKPLVVFVLGGPGAGKGTQCARIVEKYGYTHLSAGELLR
 DERKNPDSQYGELIEKYIKEGKIVPVEITISLLKREMDQTMAANAQKNKFLIDGFPRNQDNLQGWNKTM
 GKADVSVLFFDCNNEICIERCLERKSSGRSDDNRESLEKRIQTYLESTKPIIDL YEEMGKVKKIDASK
 SVDEVFGEVVKIFDKEG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_025647

ORF Size: 684 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_025647.2](#), [NP_079923.2](#)

RefSeq Size: 1880 bp

RefSeq ORF: 684 bp

Locus ID: 66588

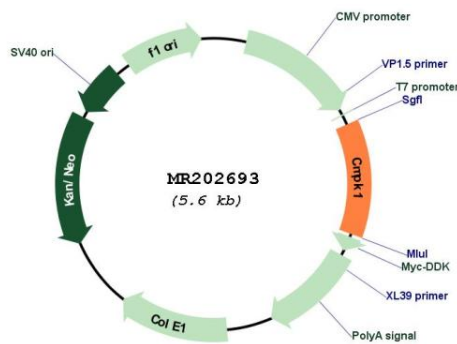
UniProt ID: [Q9DBP5](#)

Cytogenetics: 4 D1

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]

Product images:



Circular map for MR202693