

## Product datasheet for MR206683

### Cmpk2 (NM\_020557) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cmpk2 (NM_020557) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cmpk2
Synonyms:	1200004E04Rik; TDKI; Tyki
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206683 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGACCATGGCTCGGCCGCGCGCTTCACTGTGGAGCTGCCAGATTGCTCCCTGACTCACTTCGTCC  
TGGGGGATGCAACAGACCACAGGGATGCACGCCTGGCAGAGCTGCTCGGCCCCAGGGCGCAGCTACGC  
GCTGTGTGTGCCCTGGCTCCAGGCGAAGGCTGCGGGCCCGGGTGCAGGCGGCCGGTGCACCATCGC  
CTGCTGCAGCAGCTGCGCCGGGTCTTTACAGAGATGCCAACTGAGCAAGCTTCTGGGCTATGGTCCGG  
GCGATCAGGCCGCGAAGCCAGCATGGCTTCTGCTGCGGGACCCTTGCACCACCCGGACTCGGGC  
CGACTTGCTCCAGCTTCTGGGCTCCTGCCAGGAGCGGCCGCGCCCGAGTTGGCCGAGTTCAGGCCGAC  
TCCAGGGTTTGCTGTGGCAGCTCTGTGGGAGTTGCAGGGAGACAGGCAGGTGCAGGTGGACTGCGCAT  
GCGTCTGCCGGCACAGGAACCTCATCTGCACCCATTGCTGCCAGATCTGCTAACTCTGCGGTGTTCCA  
AGACCGGGACGCGGAAGGGCTGTCTTGAAGAGTGCACATCCTTTATCCAGAAGCCCGGGCAGTACTT  
GACCTAGTTGACCAGTGCCCAAAGGAGTCCAGAAAGGGAAGTTCAGGTTCATTGCCATTGAAGGACTGG  
ATGCCACTGGTAAGACCACACTGACGCAGTCAGTGTGAGAGTCTCTCAAGGCTGTCTCTACAGTCGCC  
ACCCCCCTGTATCAGCCAGTGGAGGAAGATCTTTGATGATGAACCTACTATCATTGAAGAGCCTTTTAT  
TCTTTGGCAATTATCTGTGGCTTCTGAAATAGCTAAAGAATCAACCACTTCTGTTATTGTAGACA  
GGTACTGGCATAGCACAGCCACCTACGCCATAGCTACTGAGGTGAGTGGAGGCCTACAGTACCTACCC  
TGCCACACCCTGTGTACCAAGTGGCCAGGGACCTGCTGAAGCCGACTTGGTCTGCTGCTGACTGTG  
AATTCTGAGGAGAGAGTGCAGGACTGCAGGGCCGGGTGAGGAGAAAATAAAGAAGAGGCTGAACCTG  
AGGCCAATAATGTGTTTCGTGAGAGGTGAAATGACGTACCAGCGTATGGAGAACCAAGCTGCCATCT  
GGTGGATGCCAGCCCTCGAGAGAGACAGTCTGCAGAAGTTTTAGAGCTGATCCAGAGTTCTGGTCGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206683 protein sequence  
 Red=Cloning site Green=Tags(s)

MGTMARPRRFTVELPDCSLTHFVLGDATDHRDARLAELLGPPGRSYALCVPLAPGEGCGPRVQAARVHHR  
 LLQLLRGPLQRCQLSKLLGYGPGDQAGEAQHGFLLRDPCDHPDTRDLLQLLQSCQEAARPQLAEFQAD  
 SQGLLWQRLWELQGDRQVQVDCACVLP AQEPHLHPLLDLLNSAVFQDRDAARAVLEECSF IPEARAVL  
 DLVDQCPKEVQKGFQVIAIEGLDATGKTTLTQSVSESLKAVLLQSPPPCISQWRKIFDDEPTIIRRAFV  
 SLGNLVA SEIAKESTNFPVIVDRYWHSTATYAIATEVSGGLQYLPPAHHPVYQWP GDLLKPDLVLLLTV  
 NSEERVRLQGRGQEKTEEAEL EANNVFRQKVEMTYQR MENPSCHLV DASP SRET VLVK VLELIQSSGR

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\_020557

**ORF Size:** 1263 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 Size:** 3215 bp

**RefSeq ORF:** 1344 bp

**Locus ID:** 22169

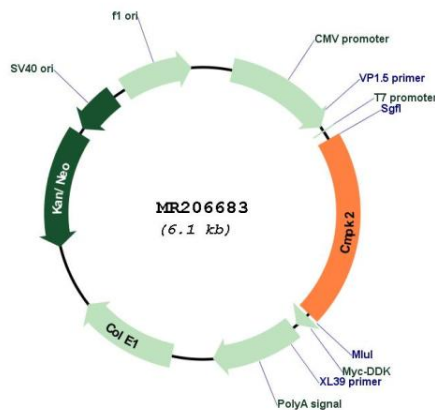
**UniProt ID:** [Q3U5Q7](#)

**Cytogenetics:** 12 9.69 cM

**MW:** 46.9 kDa

**Gene Summary:** May participate in dUTP and dCTP synthesis in mitochondria. Is able to phosphorylate dUMP, dCMP, CMP, UMP and monophosphates of the pyrimidine nucleoside analogs ddC, dFdC, araC, BVDU and FdUrd with ATP as phosphate donor. Also displays broad nucleoside diphosphate kinase activity (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR206683