

Product datasheet for MR202301

Cinp (NM_026048) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cinp (NM_026048) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cinp
Synonyms:	1810047K05Rik; 2810452K22Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202301 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGGAAGCAAAGACTCTTGGGATCGCAACACCAAGAAAACCTGTCTTATCAGTCAGTGCGAGGAACTTA
AGGACAATGCTGCTGACTGGCATAACTTAATCCTGAAATGGGACAGCCTCAGTGACAAGGGCTTCACCAC
AGCGAGCAGTATTGCCAACCTGAAAGTCAGCTTGCTGAGTAAAGAGAAGGTTGAGTTAGAGAGCAGCAGC
CCAGCTTCCATGGAAGAGGAAGAAAAGACAAATCTGGACTACGATAAGGGACTCGAAGCACTGTGTGAGG
AGCTGCAGGCCATCTTGGACGGCTTGACTAAAATACAAATGAAAATGAAAAGCTGTCTTCAACCACCAA
GGGAATTTGTGAGCTAGAAAATTACCACTACAGGGAAGAAAGCAGCCGGCCCCCTCTATTTACACAGTGG
CCCACAGCCTTCTTTATGAGGTCTCCCGCCGGCTCTCTGAAGCATACAAGAAGGAGCTCCTTTTGAAGC
ACACCATTTGGCGCAGAGCTGGCCATACTGCAGATCGCAACCTCAGCCTGACCTACCTGTCCATGTGGCT
GCACCAGCCCTACATAGAGAGCAACAGCAAGCTGCAGCTGGAGAGCATGCTGCTCGAGACAGGTCACCGG
GCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202301 protein sequence
 Red=Cloning site Green=Tags(s)

MEAKTLGIATPRKPVLSVSARKLKDNAADWHNLILKWDSLSDKGFTTASSIANLKVSLLSKEKVELESSS
 PASMEEEEKTNLDYDKGLEALCEELQAILDGLTKIQMMEKLSSTTKGICELENYHYREESSRPPLFHTW
 PTAFFYEVSRRLSEAYKKELELLKHTIGAELAHTADRNLSTYLSMWLHQPYIESNSKLQLESMLLETGHR
 AL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_026048

ORF Size: 639 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_026048.4](#), [NP_080324.1](#)

RefSeq Size: 2029 bp

RefSeq ORF: 639 bp

Locus ID: 67236

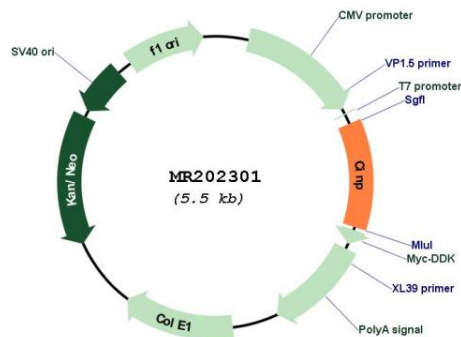
UniProt ID: [Q9D0V8](#)

Cytogenetics: 12 F1

MW: 24.1 kDa

Gene Summary: Interacts with the components of the replication complex and 2 kinases, CDK2 and CDC7, thereby providing a functional and physical link between CDK2 and CDC7 during firing of the origins of replication. Regulates ATR-mediated checkpoint signaling (By similarity).
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202301