

## Product datasheet for **MR208923**

### **Cdc7 (NM\_009863) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdc7 (NM_009863) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdc7
Synonyms:	A1597260; Cdc7l1; muCdc7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208923 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGGAGCCAATGGCGTTTTCTCCCTTCGTGGCAGTGACAGGTGCCGGCTGATGACTCTTTAAAAA  
 AATATGAGCAGAGTGTTAACTTTCAGGTATTAAGAGATATTGAGGAGCTTTGTGAAGCTGTACCACA  
 ACTAGTCAATGTGTTCAAATTAAGGACAAAATTGGAGAAGGCACCTTCAGCTCTGTTTATTGGCCACA  
 GCACAGTTGCAAGAAGGACATGAAGAGAAAATTGCGCTGAAACACTTAATCCCACAAGTCATCCTATGA  
 GGATTGCAGCAGAGCTTCAGTGTCTGACAGTTGCAGGGGGCAAGACAATGTCATGGGACTTAAGTACTG  
 CTTCAGAAAAATGATCATGTGGTTATTGCTATGCCGTATCTGGAACATGAGTCTTTTTGGACATTTTG  
 AATTCTCTTTCCTCAAGAAGTTCGGGAATATATGTATAATCTTTTTGTAGCTTTGAAACGGATTATC  
 AGTTTGGTATTGTTACCGTGATGTGAAGCCAGCAATTTTTTATACAATAGACGCTGAAAAAGTATGC  
 CTTGGTGGACTTCGGTTTGGCCAGGAAACCCGTGACACAAAAATAGAGCTGCTCAAGTTTGTCCAGTCT  
 GAGGCTCAGCAGGAAGATTGTTACGAAACAAGTATCATGGAGTCTGGACACAAGGGCCTGCTGAGTC  
 GCCCGGCACCTAAAAGTGTGGATCAGCAGTGTACCCCAAAAACCTCTGTCAAAAGATCCTACACACAAGT  
 TCACATTAAGCAAGGAAAAGACGAAAGGAGAGATCTGTAGGCCTTCTGTCCAGCGCTCTGTTTTTGA  
 GAGAGAAATTTCAATATACAGCTCCATTTACATGAGAGCCCTGCAGAGAAACTCATCAAGCAATCAA  
 AGACTGTGGACATAATATCACGAAAGCTAGCGACAAAAAGACGGCCATTTCTACAAAAGCTATGAACAG  
 CGTGATGAGGGAACTGCCAGGTCTGCCCTGCTGTCTCACCTGCGACTGCTATGGATCAGATAGAGTC  
 TGCAGCGTTTGCCTGTCGAGGCGGCAGCAGGTTGCCCTAGGGCAGGCACACCAGGATTCAGAGCGCCAG  
 AGGTCCTGACAAAAGTGTCTGACCAGACACAGCGATTGACATGTGGTCTGCAAGTGTCAATTCCTGTC  
 CTTGCTCAGTGGCGGTACCCATTTTACAAGGCCAGTGATGACTTAACTGCTTTGGCTCAGATCATGACA  
 ATTCGAGGATCCAGGAAACTATCCAGGCTGCTAAAGCTTTTGGCAAATCAGTTCTGTGTAGCAAAGAAG  
 TCCAGACAAGACTTGAGAGCTCTCTGTGAGAGACTGCGGGGTCTAGACTCTACCACTCCAGGTCAGC  
 CAGTGGTCTCCAGGGAATGCTTCTATGACCCTGCTGCTTCCAAGAACACTGACCACAAAGCATCCCGT  
 GTACAGGCTGCTCAGGCACAGCACTCAGAGGACTCCTTGTATAAAAGGGACAACGATGGCTATTGGAGTC  
 ATCCCAAAGACTGCACTTCCAAGTCAAGGCTGGGACTCAGTACCTGATGAAGCCTATGACCTGCTCGA  
 CAAGCTTCTGGACCTAAACCCAGCTTCAAGGATAACAGCAGAAGCAGCCTTATTACATGCGTTCTTTAA  
 GATATGTGCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208923 protein sequence  
 Red=Cloning site Green=Tags(s)

MEEPMAFSSLRGSDRCPADDSLKKEYQSVKLSGIKRDIEELCEAVPQLVNVFKIKDKIGEGTFSSVYLAT  
 AQLQEGHEEKIALKHLIPTSHPMRIAELQCLTVAGGQDNVMGLKYCFRKNHVVIAAMPYLEHESFLDIL  
 NSLSFQEVREYMYNLFVALKRIHQFGIVHRDVKPSNFLYNRRLKKYALVDFGLAQGTRDTKIELLKVFQS  
 EAQQEDCSRNYHGVVGHKGLLSRPAPKTVDDQCTPKTSVKRSYTVVHIKQKDGKERSVGLSVQRSVFG  
 ERNFNIHSSISHESPAEKLIKQSKTVDIISRKLATKKAISTKAMNSVMRETARSCPAVLTDCYGS DRV  
 CSVCLSRQQVAPRAGTPGFRAPEVLTKCPDQTTAIDMWSAGVIFLSLLSGRYPFYKASDDLTAQAQIMT  
 IRGSRETIQAAKAFGKSVLCSKEVPAQDLRALCERLRGLDSTTPRSASGPPGNASVDPAAASKNTDHKASR  
 VQAAQAQHSSEDSLYKRDNDGYWHPKDCSTNSSEGWDSVPEAYDLLDKLLDLNPASRITAEALLHAFFK  
 DMCS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_009863

**ORF Size:** 1695 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\\_009863.3](#), [NP\\_033993.2](#)

**RefSeq Size:** 2968 bp

**RefSeq ORF:** 1695 bp

**Locus ID:** 12545

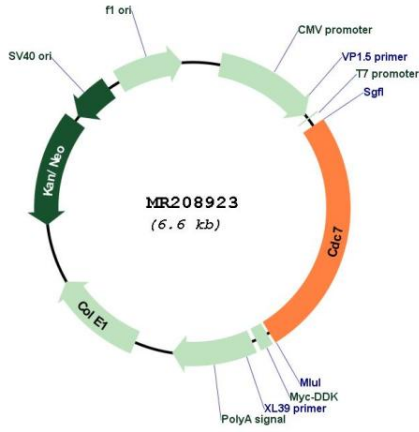
**UniProt ID:** [Q9Z0H0](#)

**Cytogenetics:** 5 E5

**MW:** 62.8 kDa

**Gene Summary:** Seems to phosphorylate critical substrates that regulate the G1/S phase transition and/or DNA replication. Can phosphorylates MCM2 and MCM3.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208923