

## Product datasheet for **MR207684**

### Cdc23 (BC059013) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc23 (BC059013) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdc23
Synonyms:	6030435O18; D18Ertd243e
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>MR207684 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTATCCAGATACCTGTCTGGAGAGAAGAAGAAGGATGACGAAACAGTTGATAGCCTAGGACCCCTAG  
 AGAAGGGACAAGTCAAAAACGAGGCTCTCAGAGAAGTCTGAGAGTGGAACTCAGCCGGAAGCACCAGGCTCG  
 GGGACTTGATGGATTTCGGCCTTTACCTGTATGGGGTGGTCTTCGAAACTGGACTTAGTGAAAGAGGCC  
 ATTGATGTGTTTGTGGAGGCTACTCATGTTTTGCCTTTGCACTGGGGAGCCTGGTTAGAGCTGTGTAACC  
 TGATCACAGACAAAGAGATGCTGAAGTTCCTGTCTTTGCCTGACACCTGGATGAAAGAGTTCCTTCTGGC  
 TCACATATACACAGAAGTGCAGCTGATAGAGGAGGCCCTGCAGAAGTATCAGCATCTCATTGATGTGGGC  
 TTTTCCAAGAGCTCGTACATTGTTCCCAAATTCAGTTGCCTATCACAATATCAGAGATATCGACAAAG  
 CCCTTTCTATTTTCAATGAGCTGAGGAAACAAGATCCTTACAGGATTGAAAATATGGACACATTCTCCAA  
 CCTTCTCTATGTCAGGAGCATGAAGTCTGAATTGAGTTACCTGGCGCATAACCTCTGTGAAATTGATAAA  
 TACCGAGTAGAAACATGCTGTGTAATTGGCAATTATTACAGCTTACGCTCCAGCATGAGAAAGCAGCTT  
 TGTATTTCCAGAGAGCCCTAAAGTTGAATCCTAGGTACCTTGGGGCTGGACACTGATGGGGCACCAGTA  
 CATGGAGATGAAGAACACGTCTGCAGCTATTACAGGCTTACCGACATGCCATTGAGGTCAACAAGAGAGAC  
 TACAGAGCTTGGTATGGCCTTGGCAGACTTACGAAATCCTTAAAATGCCATTTTATTGCCTTTATTATT  
 ATAGACGGGCCACCAGCTTCGTCCTCAATGATTCTCGCATGCTGGTTGCCTTAGGAGAATGTTATGAGAA  
 ACTCAATCAACTAGTGAAGCCAAAAAGTGTATTGGAGAGCATATGCCGTGGGAGACGTGGAGAAAATG  
 GCTCTTGTGAAGCTGGCAAGCTTCATGAACAGTTGACTGAGTCAGAGCAGGCTGCCAGTGTACATCA  
 AATACATCCAAGATATCTATTCCTGTGGGAGACCGTGGAGCATTGGAGGAGAGCACAGCTTCCGATA  
 CCTGGCCCAAGTACTATTTTAAAGTGAAGCTGTGGGATGAAGCTTCAACTTGTGCCAAAAATGTTGTGCA  
 TTCAATGATACCCGGAAGAAGGTAAGGCCTTGCTCCGCCAGATCCTACAGCTGAGGAACCAAGGGGAGA  
 CACCCACCTCTGACACGCCGGTACCTTTTTCTCCCTGCCTCACTGTCTGCAAACAACACTCTACACG  
 CAGAGTTTCTCCACTCAACCTGTCTTCAGTCACACCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207684 protein sequence  
 Red=Cloning site Green=Tags(s)

MYSRYLSGEKKKDDDETVDLSLPLEKQVKNEALRELRLVELSRKHQARGLDGFGLYLYGVVLRKLDLVKEA  
 IDVFVEATHVLPPLHWGAWLELCNLITDKEMLKFLSLPDTWMKEFFLAHIYTELQLEEEALQKYQHLIDVG  
 FSKSSYIVSQIAYAYHNIRDIDKALSIFNELRKQDPYRIENMDTFSNLLYVRSMKSELSYLAHNLCEIDK  
 YRVETCCVIGNYSLRSQHEKAALYFQRALKLNPRYLGAWTLMGHEYMEMKNTSAAIQAYRHAIEVNKRD  
 YRAWYGLGQTYEILKMPFYCLYYRRHQLRPNDSRMLVALGECYEKLNQLVEAKKCYWRAYAVGDVEKM  
 ALVKLAKLHEQLTESEQAAQCYIKYIQDIYSCGETVEHLEESTAFRYLAQYFYKCKLWDEASTCAQKCCA  
 FNDTREEGKALLRQILQLRNQGETPTSDTPGTFFLPASLSANNTPTRRVSPLNLSVTP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

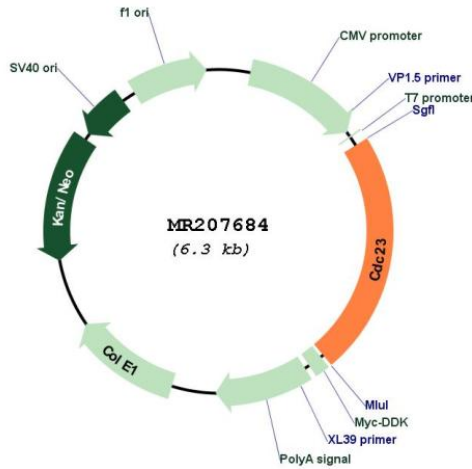
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC059013

ORF Size: 1437 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC059013</a> , <a href="#">AAH59013</a>
<b>RefSeq Size:</b>	3015 bp
<b>RefSeq ORF:</b>	1439 bp
<b>Locus ID:</b>	52563
<b>Cytogenetics:</b>	18 18.69 cM
<b>MW:</b>	55.8 kDa
<b>Gene Summary:</b>	Component of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated E3 ubiquitin ligase that controls progression through mitosis and the G1 phase of the cell cycle. The APC/C complex acts by mediating ubiquitination and subsequent degradation of target proteins: it mainly mediates the formation of 'Lys-11'-linked polyubiquitin chains and, to a lower extent, the formation of 'Lys-48'- and 'Lys-63'-linked polyubiquitin chains (By similarity). [UniProtKB/Swiss-Prot Function]