

## Product datasheet for **MR225248**

### **Cdc45 (NM\_001161623) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdc45 (NM_001161623) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdc45
Synonyms:	Cdc45l
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>MR225248 representing NM\_001161623  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTCTGTGACCGATTTCCGCAAGGAGTCTACGAGACGGTCCACAACCAGAGGGTCTTCTCTTTGTGG  
 CCTCGGACGTGGATGCCTTGTGTGCTTGAAGATCCTCCAGGCCCTGTTTCAGTGTGACCAGTCCAGTA  
 TACGCTGGTTCGGTTTTCTGGGTGGCAAGAACTTGAAACTGCATATCTTGAACATAAAGAGCAGATCAAA  
 TTGCTTATTAACAAGAGGATGACCTTGAGGTTCTGCCTACGACGACATCTTTAGAGATGAAGCAGAGG  
 ATGAAGATCTTTAGACAGTACGGTGTGGGTGACAGCCTTCAGAGAAGCGCACACGGTTAGAAGAGGA  
 GATAGTGGAGCGAAACAGGAAGAGGAGGCAGCGCAGGGAGTGGGAGGCCCGAAGGAAAGACATCCTCTTT  
 GACTACGACGATGAATATTATGGGACATCGTCGGCCATGGTGTGTTGACCTGGCGTGGATGATGT  
 CCAAGGACCTGAATGACATGCTGTGGTGGCCATTGTTGGACTGACAGACCAGTGGGTGCATGACAAGAT  
 CACTCAAATGAAGTACGTGACTGATGTTGGCATCTGCAGCGTCAATGTGTCCCGTCATAACCACCGAAAC  
 GAGGCGGAGGAGAACATGCTCTCTGTAGACTGCACCCGGATCTCCTTCGAGTATGACCTCTGCCTGGTAC  
 TGTATCAGCACTGGTCCCTCCATGAAAGCCTGTACAACACCAGCTACACAGCAGCCAGGTTAAAGCTCTG  
 GTCTGTGCATGGGCAGAAACGACTCCAGGAGTTCCTTGCAGACATGGGGTTCCTTGAAGCAAGTCAAG  
 CAGAAATTTAGTCCATGGACGTTTCTTGAAGGGGAATCTGCGAGAAATGATTGAAGAATCTGCAATA  
 AATTTGGGATGAAGGACATGCGTGTACAGACTTTCAGCATTACAGTTTGGGTTCAAGCATAAATCCTGGC  
 CAGTGTGTCGCTTTGCCACCATGTCTAATGGAGAGTCTGAGAAGGATGGCTCAGGGACAGACCAC  
 TTCATCCAGGCTCTCGATAGCCTCTCCAGGAGTAACCTGGACAAGCTATACTTGGTCTAGAGCTCGCCA  
 AGAAGCACCTCCAAGCCACACAACAGACCATCGCCAGTGTCTCTGTACCAACCTCGTCACTTCCAGGG  
 CCCTTTTCTCTACTGCTCACTCATGGAGGGCACTCCAGATGTCACCTGTTTTTCCAAGCCAGCATCCTTG  
 AGTCTGCTCAGCAGACATCTGCTCAAGTCTTTGTGACTCGACAAGAATCGACGATGCAAGTCTGCTGC  
 CCCTGGTGTGGTGCCTCGCTGAGCGTGAACAGGGCACAGTACCCTGGTGGGATCCCCCAGAGAC  
 TGATAGCTCGGATAGAAAGAACTTTTTGGTGGGCTTTTGAAGAAGCAGCAGAAAGCAGCAGTCTCGG  
 ACTCTACACAATTACTTTGACCTCTCAGTAATTGAGCTGAAGGCTGAGGACCGGAGCAAGTTCTGGACG  
 CTCTTGTGTCAGTCTGTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225248 representing NM\_001161623  
 Red=Cloning site Green=Tags(s)

MFVTDFRKEFYETVHNQVRVLLFVASDVDALCACKILQALFQCDHVQYTLVPVSGWQELETAYLEHKEQIK  
 LLIKQEDDLEVPAYDDIFRDEAEDELSDSDGDGSEPKRTRLEEEIVERNRRRRQREWEARRKDILF  
 DYEQYEEYGTSSAMVMFDLAWMMSKDLNDMLWVAIVGLTDQWVHDKITQMKYVTDVIGILQRHVSRRHNHRN  
 EAEENMLSVDCRISFEYDLCVLYQHWSLHESLYNTSYTAARFKLWSVHGQKRLQEFADMGLPLKQVK  
 QKFQSMQVSLKGNLREMIIEESANKFGMKDMRVQTFSIQFGFKHKFLASDVVFATMSLMESPEKDGSGTDH  
 FIQALDSLRSNLDKLYLGLLELAKKHLQATQQTIASCLCTNLVTSQGPFLYCSLMEGTPDVTLFSKPASL  
 SLLSRHLLKSFVYSTKNRRCKLLPLVMAAPLSVEQGTVTVVGIPPETDSSDRKNFFGRAFEKAAESTSSR  
 TLHNYFDLSVIELKAEDRSKFLDALVLSLS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

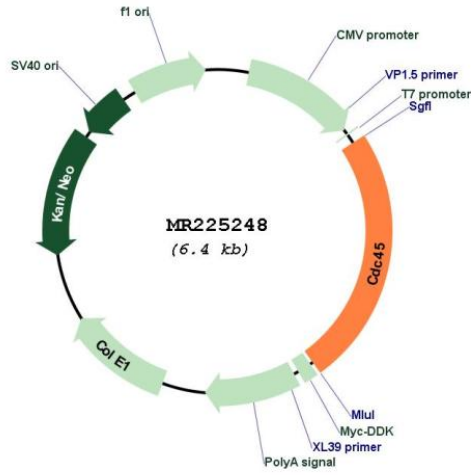
**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**



<b>ACCN:</b>	NM_001161623
<b>ORF Size:</b>	1560 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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="#">NM_001161623.2</a>
<b>RefSeq Size:</b>	1784 bp
<b>RefSeq ORF:</b>	1563 bp
<b>Locus ID:</b>	12544
<b>Cytogenetics:</b>	16 11.63 cM
<b>MW:</b>	60.6 kDa
<b>Gene Summary:</b>	Required for initiation of chromosomal DNA replication.[UniProtKB/Swiss-Prot Function]