

Product datasheet for **RR203563**

Cdc45 (NM_001105866) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdc45 (NM_001105866) Rat 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:

>RR203563 representing NM_001105866
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCTGTGACCGATTTCCGCAAGGAGTCTACGAGCTAGTCCACAACCAGAGGGTCTTCTCTTTGTGG
 CCTCGGACGTGGATGCCTTGTGTGCTTGAAGATACTTCAGGCCCTGTTTCAATGTGACCACGTACAGTA
 TACGCTGGTTCCAGTCTCTGGGTGGCAAGAACTTGAAACTGCGTTTCTTGAACATAAAGACAAATCTCC
 TATTTTCATCCTCATAAACTGTGGCGCTAACGTGGACCTGTTGGATATCCTTCAGCCTGACGAAGACAGTA
 TATTTTTGTGTGTGATACCCACAGGCCAGTGAACGTTGTGAATGTGTATAATGACACTCAGATCAAATT
 GCTTATTAACAAGAGGATGACCTCGAAGTTCCTGCCTATGATGACATCTTTAGAGATGAAGCAGAGGAT
 GAAGAAGATCTTTCAGAAAATGACGATGGTGGGCAGAGCCTTCAGAGAAGCGCTTACGGTTAGAAGGGT
 TAGAAGAGGAGATAGTGGAGCGAAACAGGAAGAGGAGGCAGCGCAGGGAGTGGGAGGCCCGGAGGAAAGA
 CATCCTCTTCGACTACGAGCAGTATGAATATTATGGGACATCCTCAGCCATGGTGTGTTTGACCTGGCT
 TGGATGATGTCCAAGGACCTGAATGACATGCTGTGGTGGGCCATTGTTGGGTTGACAGACCAATGGCTGC
 ACGACAAGATCACTCAAATGAAGTATGTGACTGATGTTGGCGTCTGCAGCGTATGTGTCCCGGCATAA
 CCACCGAAACGAGGCCGAGGAGAACATGCTCTCTGTGGACTGCACCCGGATCTCCTTTGAGTACGACCTC
 TGCTTGGTACTGTACCAGCACTGGTCCCTCCATGAGAGCCTGTACAACACCAGCTACACTGCAGCCAGGT
 TCAAGCTCTGGTCTGTGCATGGGCAGAAGCGACTCCAGGAGTTCCTTGACAGCATGGGGCTTCCCCTGAA
 GCAAGTGAACAGAAATTCAGTCCATGGACGTTTCCCTGAAGGAGAATCTTCGAGAAATGATTGAAGAA
 TCTGCAAATAAGTTTGGGATGAAGGATATTCGTGTGCAGACTTTCAGCATTTCAGTTTGGGTTGAGGCATA
 AATTCCTGGCCAGTGTGCTGCTTTGCCACCATGTCTAATGGAGAGGCCCGAGAAGGATGGTCAAG
 GACAGACCACTTCATCCAAGCTCTCGATAGCCTCTCCAGGAGTAACCTGGACAAGCTGTACCTTGGTCTA
 GAGCTCGCCAAGAAGCACCTCCAAGCCACCCAGCAGACCATCGCCAGCTGTCTGTACCAACCTCGTCA
 CCTCCCAGGGCCCTTTTCTACTGCTCACTCATGGAGGGCACTCCAGATGTCGCACTGTTCTCCAAGCC
 AGCATCCTTGAGTCTGCTCAGCAGGCATCTGCTCAAGTCTTTGTGTGCTCGACGAAGAATCGACGCTGC
 AAAGTCTGCCCTGGTGTGGTGGTGGCCACTGAGCATGGAGCAGGGCACAGTACTGTGGTGGGCATCC
 CTCCAGAGACTGATAGCTCGGATAGAAAGAACTTTTTTGGTGGGCATTTGAGAAGGCAGCAGAAAGCAC
 CAGCTCCCGACTCTACACAACACTTTGACCTCTCAGTAATTGAGCTGAAAGCTGAGGACCGGAGCAAG
 TTCTGGATGCTCTTGTGTCAGTCTGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR203563 representing NM_001105866
 Red=Cloning site Green=Tags(s)

MFVTDFRKEFYELVHNQRVLLFVASDVALCACKILQALFQCDHVQYTLVPVSGWQELETAFLEHKEQFS
 YFILINCGANVDLLDILQPEDSIFVCDTHRPVNVVNVYNDTQIKLLIKQEDDLEVPAYDDIFRDEAED
 EEDLSENDGGAEPSEKRLRLEGLEEEIVERNRKRRQRREWEARRKDILFDYEQEYEGTSSAMVMFDLA
 WMMSKDLNDMLWWAIVGLTDQWLHDKITQMKYVTDVGVLRHVSRRHNRNEAENMLSVDCTRISFEYDL
 CLVLYQHWSLHESLYNTSYTAARFKLWSVHGQKRLQEFLADMGLPLKQVKQKFSMDVSLKENLREMIIE
 SANKFGMKDIRVQTFISIQFGRHKFLASDVVFATMSLMEPEKDGSGTDHF IQALDSLRSNLDKLYLGL
 ELAKKHLQATQQTIASCLCTNLVTSQGPFLYCSLMEGTPDVALFSKPASLSLLSRHLLKSFVCSTKNRRC
 KLLPLVMAAPLSMEQGTVTVVGIPPETDSSDRKNFFGRAFEKAAESTSSRTLHNYFDLSVIELKAEDRSK
 FLDALVSLLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

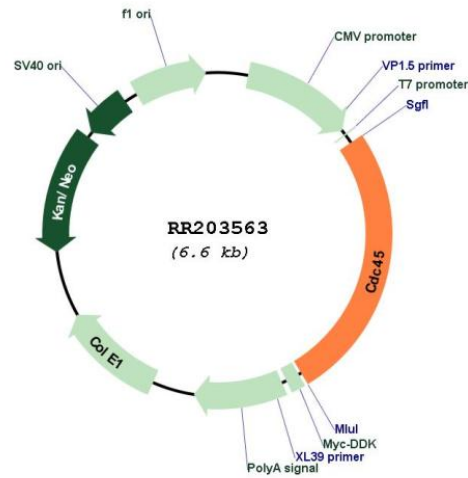
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001105866
 ORF Size: 1710 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:	<ol style="list-style-type: none">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_001105866.2 , NP_001099336.1
RefSeq Size:	1893 bp
RefSeq ORF:	1713 bp
Locus ID:	287961
Cytogenetics:	11q23
MW:	65.9 kDa