

Product datasheet for **RR208073**

Cdca8 (NM_001025050) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdca8 (NM_001025050) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdca8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR208073 representing NM_001025050 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCTAAGAAACGCAGCAGCCGGGACCAGGACCAACACACTGCGGAGCCGGAAGCTCGCCTCCT
TCCTAAAGGACTTCGACCGCGAGGTGCAAGTTCGAACCAAGCAAATTGAGTCCGACAGGCAGACCCCTCCT
CAAGGAGGTGAAAATCTCTACAACATCGAGGTCCTTCGGCTCCCAAGGCGCTGCAAGTCATGAAGTGG
CTTGACTACTTTGCCCTAGGAGGAAACAGACAGGCCCTGGAAGAGGCAGCAACAGCTGATCGAGACATCA
CAGAGATAAAACAATTTAACAGCTGAAGCTATTCAGACACCTTTAAAATCTGTTAAAAAGCGAAAGGTAAT
CGAGGTGGATGAAGCCATAAAGGAAGAGGAAGAAGATGAAGAAGAAGAAGGAGGAGGAGGAGGAAGA
AAGAGCCATAAGAATCTTCGATCTGCGAGAGTCAAAGATGCCCTCCATCCAAGAAGAGAACCCAGTCTA
TACAAGGAAGAAGCAGAAGCAAAGGTTAAGCCATGACTTTGTGACCCAGCTATGAGCAGGCTGGAGCC
ATCTCTGGTGAACCAACCCAGGCATGACACCTAGGTTTGATTCCAGGGTCTTCAAACCTCCAGGTCTA
CGAACCCAGCGCCAAGGAGCAGGTTTACAACATCTCTATCAACGGCAGCCCTCTCGCAGACAGCAAAG
AGATCTCCCTCAGTGTGCCATAGGTGGCGGTGCGAGCTTGGGCTATTGGCCAGTGACTTCAGAGGGT
CGATATTGCTCAGCTGAATCCAGAGGCCCTGGAAACATTAAGAACTCTCGAGTCGCCTTGCTCAGATC
TGCAGCAGCATCCGGACAGGCCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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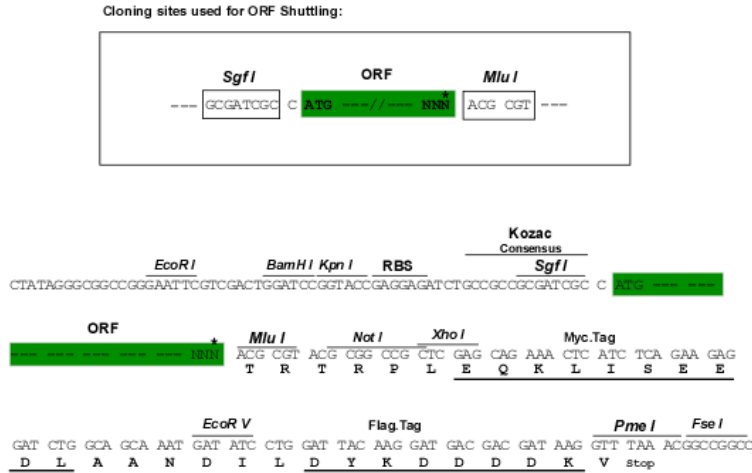
Protein Sequence: >RR208073 representing NM_001025050
 Red=Cloning site Green=Tags(s)

MAPKKRSSRGTRTNTLSRKLASFLKDFDREVQVRTKQIESDRQTLLEVENLYNIEVLRPKALQVMKW
 LDYFALGGNRQALEEAATADDRDITEINNLTAEAIQTPLKSVKKRKVIEVDEAIKEEEEEEEEEGGGGGR
 KSHKNLRSARVKRCPPSKKRTQSIQGRSRKRLSHDFVTPAMSRLEPSLVKPTPGMTPRFDSRVFKTPGL
 RTPAAKEQVYINISINGSPLADSKIEISL SVPIGGGASLRLLASDLQRVDIAQLNPEALGNIKKLSRLAQI
 CSSIRTGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

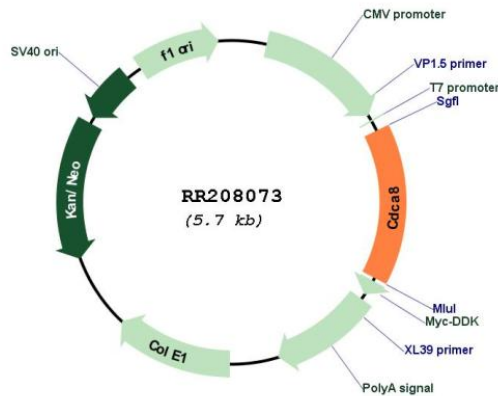
Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001025050

ORF Size:	864 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_001025050.1 , NP_001020221.1
RefSeq Size:	1547 bp
RefSeq ORF:	867 bp
Locus ID:	500545
UniProt ID:	Q6AXW0
Cytogenetics:	5q36
MW:	32.1 kDa
Gene Summary:	Component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. In the complex, it may be required to direct the CPC to centromeric DNA (By similarity).[UniProtKB/Swiss-Prot Function]