

## Product datasheet for **RR210273**

### Card9 (NM\_022303) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Card9 (NM_022303) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Card9
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR210273 representing NM\_022303  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCAGACTATGAAAATGACGACGAGTCTGGAGTGCCTGGAGAGCTCCGGGTGAAGCTAATCTCTG  
 TCATTGACCCCTCACGAATCACACCCTATCTGCGCCAGTGCAAAGTCTGAACCCCGATGATGAGGAGCA  
 GGTGCTCAGTGACCCCAACCTGGTCATCCGCAAGCGAAAGTGGGTGTGCTCCTGGACATCTGCAGCGG  
 ACAGGCCACAAGGGCTACGTGGCCTTTCTTGAGAGTCTGGAAGTCTACTACCCTCAGTTATACAGAAAAG  
 TCACTGGCAAGGAGCCAGCGCGTGTCTTCCATGATCATCGACGCATCAGGGGAGTCCGGCCTGACGCA  
 GCTGCTGATGACAGAGGTCATGAAGCTGCAGAAGAAGTTTCAGGACCTGACGGCCCTTCTGAGCTCCAAG  
 GATGACTTCATCAAGGAGCTGAGGGTAAAGGACAGCCTCTGCGCAAGCACCAGGAGCGGGTGCAGCGGC  
 TCAAGGAGGAGTGTGAGCTGAGCAGTCCGAGCTGAAGCGCTGCAAGGATGAGAAGTACGACCTGGCCAT  
 GCGCCTGGCTCACCTGAGTGAAGAGAAGGGAGCAGCACTCATGCGGAACCGTGACCTGCAGCTTGAGGTG  
 GACCAGCTCAGGCACAGCCTCATGAAGGCAGAGGATGACTGCAAGGTGGAGCGCAAAACACACTGAAGC  
 TCCGGCACGCCATGGAGCAGCGGCTAGCCAGGAGCTGCTGTGGGACCTGCAGCAGGAGAGGGACTTGT  
 GCAGGCCCGGGTGCAGGAGCTGGAGGTCTCCGTGCAGGAGGGTAAAGTACACAGGAATAGCCCATACATC  
 CAGGTGCTGGAGGAGGACTGGCGTCAGGCACTGCAGGAACACCAGGAGCAGGCCAGCACCATCTTCTCCC  
 TACGAAAGGACCTCCGCCAGGCTGAGGCCCTCCGGACCCGGTGCATGGAGGAAAAGGAGATGTTTCGAGCT  
 GCAGTGCCTGGCCTTGCACAAGGATGCCAAGATGTACAAGGACCGGATCGAGGCTATCCTGCAGCAGATG  
 GAGGAAGTCTCCATTGAGCGGGACCAGGCTATGACCTCAAGGGAAGAGCTGCATGCACAGTGTGCCAAA  
 GCTTTACAGACAAGATAAGCTGCGAAAAGCAGGTTTCGAGAAGTGGATGAGAAGGCCGAGTGTGCAGT  
 GCAGCTGTTCCAGACCGAGAGCCGATTACTGGCCGCTGAGGGCAGACTCAAGCAGCAGCAATTGGACATG  
 CTATCCTGAGCTCTGACTTGAAGACAGTTCCCCCAGGAACTCCAGGAGCTTTACTGCCTCAGGACC  
 TGGAGGAGGATGCCAGCTCTCAGACAAAGGTGTCTGCGCAGACAGGGAGAGCCAGAGCAGCCCTTCGT  
 GGTTCGAAACAAGAAGCATCTTTCGAGACCCATGACACGGTCCAGCAGCAGCAGGAGCCCGGAGAAG  
 GAGCGGCGGCGCCTCAAGGAGAGCTTCGAGAAGTACCAGGAAAGCGGGCGCTCCGCAAGATGCAGAACA  
 GCTGGCGACAGGGAGAAGGGATCACGGGAATACGACAGGCAGCGACAACACCGACACCGAGGGCTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR210273 representing NM\_022303  
 Red=Cloning site Green=Tags(s)

MSDYENDDWCWALEFRVYKLIISVIDPSRITPYLRQCKVLPDDEEQVLSDPNLVIRKRKVGVLDDILQR  
 TGHKGYVAFLESLELYYPQLYRKVTGKEPARVFSMIIDASGESGLTQLLMTEVMKQKKVQDLTALLSSK  
 DDFIKELRVKDSLLRKHQERVQRLKEECELSAELKRCKDENYDLAMRLAHLSEEKGAALMRNLDLQLEV  
 DQLRHSLMKAEDDCKVERKHTLKL RHAMEQRPSQELLWDLQQRDILLQARVQELEVSQEGKLRHNSPYI  
 QVLEEDWRQALQEHQEQASTIFSLRKDLRQAEALRTRCMEEKEMFELQCLALRKDAKMYKDRIEAILQQM  
 EEVSIERDQAMTSREELHAQCAQSFQDKDKLRKQVRELDEKADELQLQLFQTESRLLAAEGRLKQQQLDM  
 LILSSDLEDSSPRNSQELSLPQDLEEDAQLSDKGVLADRESPEQPFVVLNKKHLSQTHDTPSSSEPPEK  
 ERRRLKESFENYRRKRALRKMNSWRQEGDHGNTTGSDNTDTEGS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

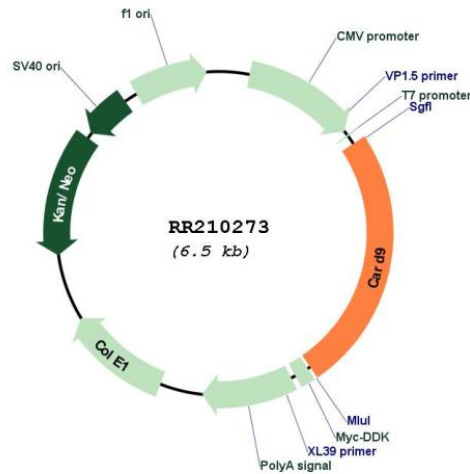
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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

**Plasmid Map:**


**ACCN:** NM\_022303

**ORF Size:** 1608 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\\_022303.1](#), [NP\\_071639.1](#)

**RefSeq Size:** 1879 bp

**RefSeq ORF:** 1611 bp

**Locus ID:** 64171

**UniProt ID:** [Q9EPY0](#)

**Cytogenetics:** 3p13

**MW:** 62.6 kDa

**Gene Summary:** interacts with the CARD activation domain of BCL10; activates NF-kappaB signaling [RGD, Feb 2006]