

## Product datasheet for **RR206276**

### **Chek2 (NM\_053677) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Chek2 (NM_053677) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chek2
Synonyms:	Chk2; Rad53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR206276 representing NM\_053677  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGAGTCATCAGTCCCACGGCAGCACCTCCTCGAAGGCTCATGACAGTGCTTCTGTTCACAGTCTC  
 AAGGCGGCTTCAGCCAGTCCAAGGCACCCCTCTCAGTTGCACGACCTCTCACAGTATCAGGGTGATC  
 CAGTTCCTCCACCAGCACAGTGCATCCTCCAGCCAGTCTCCCACTCCAGCTCTGGGACCTGAGCTCT  
 TTAGAGACAGTGTCTACTCAGGAAGTCTGTTCTATTCTGAGGACCAAGAACCGGAAGAGCCTGGACCTA  
 CTCCTTGGGCTCGGCTATGGGCTCTCAGGATGGATTCTCGAATCTAGACTGTGTTAATGACAACTACTG  
 GTTCGGGAGGGATAAAAGCTGTGAATATTGCTTCGATGGACACTGTTGAAAAGGACGGATAAGTACCGG  
 ACTTACAGCAAGAAGCACTTTCGCATCTCAGGAAATGGGCCCTAAGAATTGTTACATTGTATACCTAG  
 AAGACCACAGTGGAAATGGAACCTTTGTAATACAGAGCTTATCGGAAAGGAAAACGCTGCTTTGAG  
 TAACTACTGAAATCGCACTTCTACTGTGTAGAATAAAAGTTTTGTATTTTTGATCTGACTGTAGAT  
 GACCAGTCAGTTTATCCTAAGGAATTAAGAGACGAATACATCATGTCAAAAACCTTTGGAAGCGGTGCC  
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 GAGGTTCCGCCCTTGGCTCGTCCAGAGAAGCTGACACAGCTCCCAGTGTGGAAACTGAAATAGAAATTTG  
 AAGAAGCTGAATCATCCGTGCATCATCAAGATTAAGATGTCTTTGATGTGGAAGATTATACATTGTTT  
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 GGTCTTATCTCCAACGGGACTGCTGGGTACAGCCGGCCGTCGACTGCTGGAGCCTAGGAGTCATTCTT  
 TTCATCTGCCTAAGTGGGTATCCACCTTCTCTGAGCATAAGACCCAAGTGTCACTGAAGGATCAGATCA  
 CCAGTGGAAAGTACAACCTTATTCGGAAGTCTGGACAGATGTCTCAGAGAAGGCTCTGGACCTGTCAA  
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 GATGAGCACATGAAGAAGAAGTTTCCAGGATCTGCTGGTGCAGGAAAAGAACTTGGTGCCCTCCCTCTGG  
 CTCCTGCCAGACTTCCGGTCAAAGCGGCCCTGGAAGTGGAGGCGGAGGACCGGGAGAGCTCGAAGCG  
 CCTGGCCGTGTGAAGGCTGTGTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR206276 representing NM\_053677  
 Red=Cloning site Green=Tags(s)

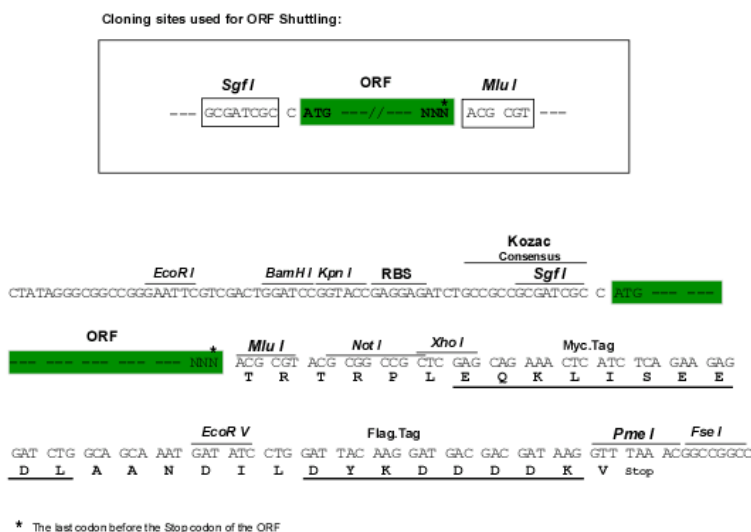
MKSHQSHGSTSSKAHDSASCSQSQGGFSQSQGTSQLHDL SQYQGASSSTSTVPSSQSSHSSGTLSS  
 LETVSTQELCSIPEDQEPEEPGPTPWARLWALQDGF SNLDCVNDNYWFRDKSCEYCFDGPLLKRTDKYR  
 TYSKKHFRIFREMGPKNCYIVYLEDHSGNGTFVNTELGKGRKPLSNNSEIALSLCRNKVVFVFDLTVD  
 DQSVYPKELRDEYIMSKTLGSGACGEVKMAFERKTCCKVAIKIIISKRRFALGSSREADTAPSVETEIEIL  
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 LKPENVLLSSQEEDCLIKITDFGQSKILGETSLMRTLCTPTYL APEVLISNGTAGYSRAVDCWSLGVIL  
 FICLSGYPPFSEHKTQVSLKDQITSGKYNLIPEVWTDVSEKALDLVKLLVVDPKARLTTEEALSHPLWQ  
 DEHMKKFFQDLLVQEKNLVPLPLAPAQTSQQRPLELEAEDAESSKRLAVCKAVL

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



**ACCN:** NM\_053677

**ORF Size:** 1635 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\\_053677.1](#), [NP\\_446129.1](#)

**RefSeq Size:** 1749 bp

**RefSeq ORF:** 1638 bp

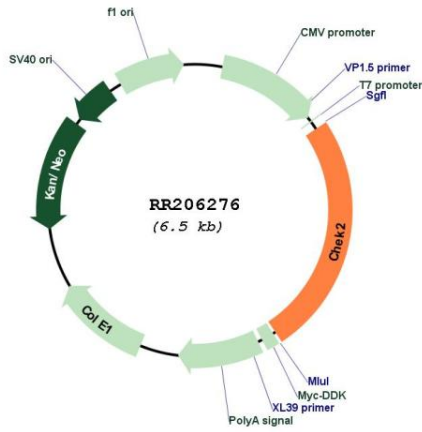
**Locus ID:** 114212

**Cytogenetics:** 12q16

**MW:** 60.9 kDa

**Gene Summary:** kinase involved in ATM-dependent DNA damage checkpoint pathway [RGD, Feb 2006]

**Product images:**



Circular map for RR206276