

## Product datasheet for **MR218193**

### **Nek11 (NM\_172461) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nek11 (NM_172461) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nek11
Synonyms:	4932416N14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR218193 representing NM\_172461  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGAAATCCAAGAGACTGCGAAGTGTGTGGCAGAAGACCCACAGTCATCCCCATGTACCCGACCG  
 CTTTGATTGCAAGAAGATATGTTCTTCAGCAGAACTTGGCAGTGGAAAGTTTGGAACTGTCTATCTGGT  
 GTCAGACAAGAAAGCCAAACCTGGAGAGGAGCTAAAGGTACTGAAGGAAATCTCTGTTGGCGAATTAAT  
 CCAAATGAGACCGTGCAGGCCAATGTGGAAGCTCAGCTCCTCTCCAGGCTCCATCATCTGCCATTGTCA  
 GATTCCATGCAAGCTTCATGGAGCAGGAGACTTTTGCATTATCACGGAATACTGTGAGGGCCGAGATCT  
 GGACTATAGAATCCAGGAATATAAAGAAGCTGGGAAAGTCTTCGCTGAAAATCAGATAGTAGAATGGTTT  
 ATCCAGCTGTTGGCTTGGAGTTGACTACATGCATGAGAGGAGAATACTTCATCGAGACTTGAAATCAAAGA  
 ATATATTTCTGAAAAATAATCTACTCAAATCGGGGATTTGGAGTTTCTCGGCTGCTAATGGGTTTCATG  
 TGAGCTGGCTACAACCTAACCCGGACCCCCATTATATGAGTCCCGAGGCCCTGAAGCACCAAGGCTAT  
 GATGCCAAGTCTGACATCTGGTCACTGGCATGCATTTTATATGAGATGTGTTGCCTGGATCATGCATTTG  
 CTGGCTCCAGTTTCTGTCTGTGGTTTTGAATATTGTTGAAGGTAACACCTTCACTCCCGGACAGATA  
 TCCACGAGAACTAAACACCATCATGGAACGCATGTTGAACAAGAGTCTTCATTGAGACCGTCGGCTGCA  
 GACATTTTAAAGCCCTTACATGGAAGAGCAGCTTCAGCTCCTGATGTGTAATACCCAGAGATGACAC  
 TGGAAGACAAGAACTCAGTTTGTGAGAAGGAGGCTGCTCATACGATTAATGCCGTGCAGAAAAAGCTTCA  
 CCTGCAGACTCTGCAAGCCTTGTCTGACACGCAGAAAACGACTCCAGAGAACGGATGTGGCTGAGGAAG  
 CTGCAGGCAGCCGATGAGAGAGCCAGGAGGCTGAAAAAGATTGCTGAAGAAAACATAAAGAAAAAGACA  
 AAAGGATGCAGGCCCTGAGATCCCGGAATGTGGGGTCCGTGCATGCCCATGTGCTCCATGAACTAGATGA  
 ACGGACTTTGGAGAGCCTGCCTGAGCCTCAGTCCCTTCCGTGCCTGGACCTCGATGAACTTGAGCCCACT  
 TTAGAGGACACCATTTGTTGACCTCGACATTATGAGATCCAGAAGACCCACTTGTGCTGAACAATATT  
 ATTCCGATGTCTTTGATTCTGTCTGAAGACAGCAGGAGCAGGAGGAAGAAATGATATTCTCAGAAGC  
 AGGAGGAGACACGAAAGAGGAGGAATCCCCATCTGTGTACAGAACAACCAACAGGACAGTGATACTGCC  
 GCGCTGGTTGGGTGTTTGAACATGTCTGGGTTACACCTCTCTAGACACAAAGACTATTACCAATGCAG  
 TGACAGACATGTCTCCTGGACCAATGGTTTTCAACAGTGCAGTGGCTCGGACCAAGATGAAGCGCATGAA  
 GGAATCAGCTGTACAGAAGCTAGGAATGGAACGTTTGGAGAGGCTACGATTACCTCAAGAGAGCAAGG  
 CACCAGAAATGCCAGAGAAGCAGAGATCTGGGAGCATCTGGAGACGGTGGTTCTCGGGCCAGTGACTGCT  
 TTGAAGTTGACCAGCTCCTCTATTTTGGAGAGTTGCTGCTGACCATGGAAGGAAAAGAGCCCTCTCTCCA  
 GAACCTGCCCTGTGAAGCTGCCAGAAGGCCGGTCAAGGGCACTCATTCTGTGACAATCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR218193 representing NM\_172461  
 Red=Cloning site Green=Tags(s)

MLKFQETAKCVGRRPTVIPMYPTALIARRYVLQQLGSGSFGTVYLVSDKKAKPGEELKVLKEISVGELN  
 PNETVQANVEAQLL SRLHHPAIVRFHASFMEQETF CII TEYCEGRDL DYRIQEYKEAGKVF AENQIVEWF  
 IQLLL GVDYMHERRILHRDLKSKNIFLKNLLKIGDFGVSRLLMGSCELATTLTGTPHYMSPEALKHQGY  
 DAKSDIWSLACILYEMCCLDHAFAGSSFLSVVLNIVEGKTPSLPDRYPRELNTIMERMLNKSPSLRPSAA  
 DILKAPYMEEQLQLLMCKYPEMTLEDKNSVCQKEAAHTINAVQKKLHLQLQALSDTQKTPRERMWLRK  
 LQAADERARRLKKIAEENYKENDKRMQALRSRNVGSVHAHVLHELDERTLESLEPEPQSLPCLDLDELEPS  
 LEDTIVDLGHYEIPEDPLVAEQYYSDVDFDSCSEEDSEEQEEMIFSEAGGDTKEEESPSVYRTNQDSDTA  
 ALVGCLEHVLGYTSLDTKITNAVTDMSPGPMVFN SAVARTKMKRMKESAVQKLG METFEEVYDYLKRAR  
 HQNAREAEIWEHLETVPVPRASDCFEVDQLLYFEELLLTMEGKEPSLQNL PCEAAQKPKVKGFHFCNDP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9009\\_h07.zip](https://cdn.origene.com/chromatograms/mm9009_h07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_172461

**ORF Size:** 1884 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\\_172461.3](#), [NP\\_766049.2](#)

**RefSeq Size:** 2625 bp

**RefSeq ORF:** 1887 bp

Locus ID: 208583

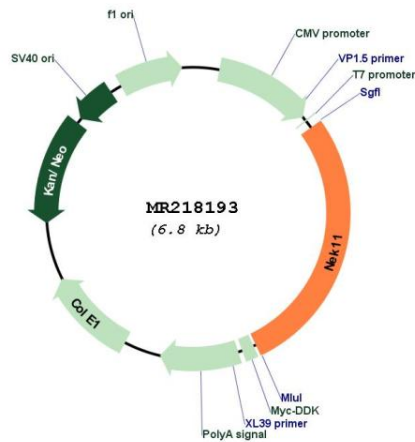
UniProt ID: [Q8C0Q4](#)

Cytogenetics: 9 F1

MW: 72.1 kDa

Gene Summary: Protein kinase which plays an important role in the G2/M checkpoint response to DNA damage. Controls degradation of CDC25A by directly phosphorylating it on residues whose phosphorylation is required for BTRC-mediated polyubiquitination and degradation. [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR218193