

## Product datasheet for **RC231401**

### **NEK4 (NM\_001193533) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NEK4 (NM_001193533) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NEK4
Synonyms:	NRK2; pp12301; STK2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RC231401 representing NM\_001193533  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCCTGGCCGCTACTGCTACCTGCGGGTCTGTGGCAAGGGGAGCTATGGAGAGGTGACGCTTGTGA  
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**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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**Protein Sequence:** >RC231401 representing NM\_001193533  
Red=Cloning site Green=Tags(s)

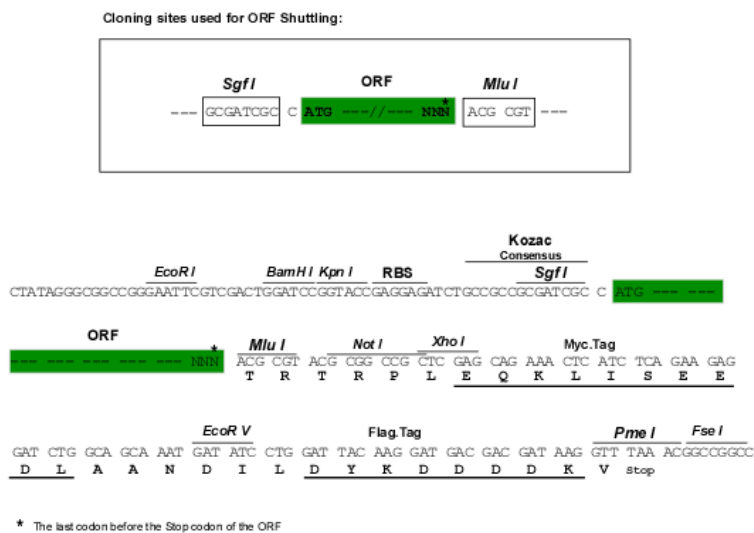
MPLAAYCYLRVVGKGSYGEVTLVKHRRDGKQYLHEKHILHRDLKTQNVFLTRTNIKVGDLGIARVLENH  
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 SKESCEDVPVANPVSEFKLHRKYRDTLILHGKVAEEAEEIHFKELPSAIMPGEKIRRLVEVLRDVRG  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_001193533

**ORF Size:** 2256 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\\_001193533.2](#)

**RefSeq ORF:** 2259 bp

**Locus ID:** 6787

**UniProt ID:** [A5YM70](#)

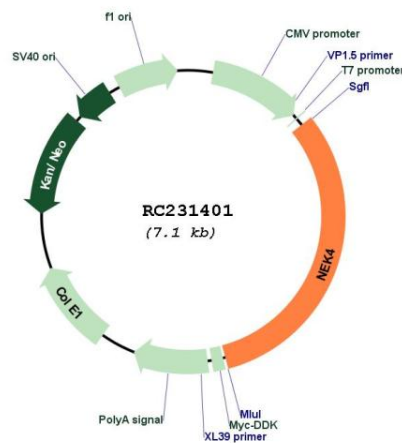
**Cytogenetics:** 3p21.1

**Protein Families:** Druggable Genome, Protein Kinase

**MW:** 84.8 kDa

**Gene Summary:** The protein encoded by this gene is a serine/threonine protein kinase required for normal entry into replicative senescence. The encoded protein also is involved in cell cycle arrest in response to double-stranded DNA damage. Finally, this protein plays a role in maintaining cilium integrity, and defects in this gene have been associated with ciliopathies. [provided by RefSeq, Jan 2017]

### Product images:



Circular map for RC231401