

Product datasheet for **RC221953**

NEK11 (NM_024800) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEK11 (NM_024800) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NEK11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC221953 representing NM_024800
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGAAATTC AAGAGCAGCTAAGTGTGTGAGTGGATCAACAGCCATTTCCACTTATCCAAAGACCT
 TGATTGCAAGAAGATACGTGCTTCAACAAAACTTGGCAGTGGAAGTTTTGGAACGTCTATCTGGTTTC
 AGACAAGAAAGCCAAACGAGGAGAGGAATTAAGTACTTAAGGAAATATCTGTTGGAGAACTAAATCCA
 AATGAACTGTACAGGCCAATTTGGAAGCCCACTCCTCTCCAAGCTGGACCACCCAGCCATTGTCAAGT
 TCCATGCAAGTTTTGTGGAGCAAGATAATTTCTGCATTATCACGGAGTACTGTGAGGGCCGAGATCTGGA
 CGATAAAATTCAGGAATATAACAAGCTGGAAAAATCTTCCAGAAAATCAAATAATAGAATGGTTTATC
 CAGCTGCTGCTGGGAGTTGACTACATGCATGAGAGGAGGATACTTCATCGAGACTTAAAGTCAAAGAATG
 TATTTCTGAAAAATAATCTCCTTAAAATGGAGATTTTGGAGTTTCTCGACTTCTAATGGGATCCTGTGA
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 ACAAGTCGGACATCTGGTCACTGGCATGCATTTTGTATGAGATGTGCTGCATGAATCATGCATTGCTG
 GCTCCAATTTCTTATCCATTGTTTTAAAAATTGTTGAAGGTGACACACCTTCTCTCCCTGAGAGATACC
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 GATGAGGAGGAAGAAGAAATAGCGTTAGAAAGACCAGAGAAGAAATCAGGAATGAGGGATCCCAGCCTG
 CTTACAGAACAAACACAGGACAGTATATCGAAGCGTTGGCCAGGTGTTTGGAAAATGCTCTGGGTTG
 CACTTCTCTAGACACAAAGACCATCACCACCATGGCTGAAGACATGTCCCAGGACCACCAATTTTCAAC
 AGTGTGATGGCCAGGACCAAGATGAAACGCATGAGGGAATCAGCCATGCAGAAGCTGGGGACAGAAGTAT
 TTGAAGAGGTCTATAATTACCTCAAGAGAGCAAGGCATCAGAATGCTAGCGAAGCAGAGATCCGCGAGTG
 TTTGAAAAAGTGGTGCCTCAAGCCAGCGACTGTTTTGAAGTGGACCAGCTCCTGTACTTTGAAGAGCAG
 TTGCTGATCACGATGGGAAAAGAACCTACTCTCCAGAACCATCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221953 representing NM_024800
 Red=Cloning site Green=Tags(s)

MLKFQEAACVSGSTAISTYPKTLIARRYVLQQKLGSGSFGTVVYLVSDKKAKRGEELKVLKEISVGELNP
 NETVQANLEAQLLSKLDHPAIVKHFHASFVEQDNFCIITEYCEGRDLDDKIQEYKQAGKIFPENQIIWFII
 QLLLGDVYMHERRILHRDLKSKNVFLKNNLLKIGDFGVSRLMGSCDLATTLTGTPHYMSPEALKHQGYD
 TKSDIWSLACILYEMCCMNHAFAGSNFLSIVLKIIVEGDTPSLPERYPKELNAIMESMLNKNPSLRPSAIE
 ILKIPYLDEQLQNLRCRYSEMTELEDKNLDCQKEAAHIINAMQKRIHLQTLRALSEVQKMTPRERMRLRKL
 QAADEKARKLKKIVEEKYEENSKRMQELRSRNFQQLSVDVLHEKTHLKGMEEEKEEQPEGRLSCSPQDEDE
 ERWQGREEESDEPTLENLPESQPIPSMDLHELESIVEDATSDLYHEIPEDPLVAEEYYADAFDYSYCVES
 DEEEEEIALERPEKEIRNEGSQPAYRTNQDSDIEALARCLENVLGTSLDTKTIITMAEDMSPGPPIFN
 SVMARTKMKRMRESAMQKLGTEVFEVYNYLKRARHQNASEAEIRECLEKVVVPQASDCFEVDQLLYFEEQ
 LLITMGKEPTLQNH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6491_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024800

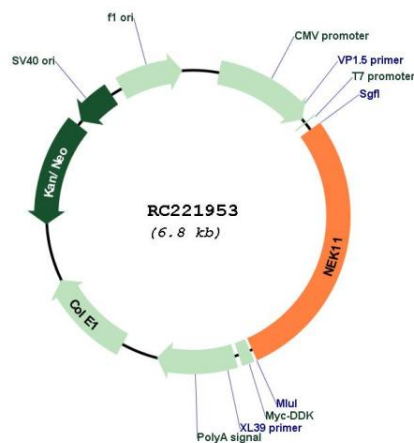
ORF Size: 1935 bp

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](#)

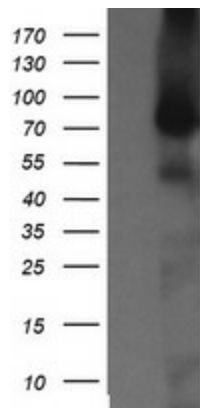
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_024800.3
RefSeq Size:	2939 bp
RefSeq ORF:	1938 bp
Locus ID:	79858
UniProt ID:	Q8NG66
Cytogenetics:	3q22.1
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
MW:	74 kDa
Gene Summary:	This gene encodes a member of the never in mitosis gene A family of kinases. The encoded protein localizes to the nucleoli, and may function with NEK2A in the S-phase checkpoint. The encoded protein appears to play roles in DNA replication and response to genotoxic stress. Alternatively spliced transcript variants have been described.[provided by RefSeq, Mar 2009]

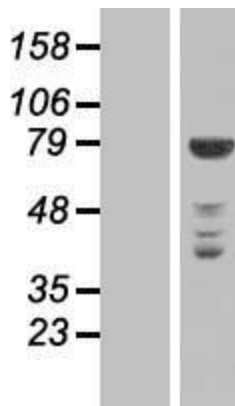
Product images:



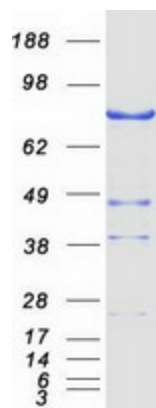
Circular map for RC221953



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NEK11 (Cat# RC221953, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NEK11 (Cat# [TA501765]). Positive lysates [LY411057] (100ug) and [LC411057] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY411057]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221953 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NEK11 protein (Cat# [TP321953]). The protein was produced from HEK293T cells transfected with NEK11 cDNA clone (Cat# RC221953) using MegaTran 2.0 (Cat# [TT210002]).