

Product datasheet for **SC111981**

NEK11 (NM_024800) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEK11 (NM_024800) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEK11
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_024800 edited
 ATGCTGAAATTC AAGAGGCAGCTAAGTGTGTGAGTGGATCAACAGCCATTTCCACTTAT
 CCAAAGACCTTGATTGCAAGAAGATACGTGCTTCAACAAAACTTGGCAGTGGAAGTTTT
 GGAAGTGTCTATCTGTTTCAGACAAGAAAGCCAAACGAGGAGAGGAATTAAGGTACTT
 AAGGAAATATCTGTTGGAGAAGTAAATCCAATGAAACTGTACAGGCCAATTTGGAAGCC
 CAACTCCTCTCCAAGCTGGACCACCCAGCCATTGTCAAGTCCATGCAAGTTTTGTGGAG
 CAAGAATTTTCTGCATTATCACGGAGTACTGTGAGGGCCGAGATCTGGACGATAAAAT
 CAGGAATATAACAAGCTGGAAAAATCTTCCAGAAAATCAAATAATAGAATGGTTTATC
 CAGCTGCTGCTGGGAGTTGACTACATGCATGAGAGGAGGATACTTCATCGAGACTTAAAG
 TCAAAGAATGATTTCTGAAAAATAATCTCCTTAAAAATGGAGATTTTGGAGTTTCTCGA
 CTTCTAATGGGATCCTGTGACCTGGCCACAACCTTAACTGGAACCTCCCATATATGAGT
 CCTGAGGCTCTGAAACACCAAGGCTATGACACAAAGTCGGACATCTGGTCACTGGCATGC
 ATTTTGTATGAGATGTGCTGCATGAATCATGCATTCGCTGGCTCCAATTTCTTATCCATT
 GTTTTAAAAATTGTTGAAGGTGACACACCTTCTCTCCCTGAGAGATATCCAAAAGAACTA
 AATGCCATCATGAAAGCATGTTGAACAAGAATCTTCATTAAGACCATCTGCTATCGAA
 ATTTTAAAAATCCCTTACCTTGATGAGCAGCTACAGAACCTAATGTGTAGATATTCAGAA
 ATGACTCTGGAAGACAAAAATTTGGATTGTGAGAAGGAGGCTGCTCATATAATTAATGCC
 ATGCAAAAAAGGATCCACCTGCAGACTCTGAGGGCACTGTGAGAAGTACAGAAAATGACG
 CCAAGAGAAAAGGATGCGGCTGAGGAAGCTCCAGGCGGCTGATGAGAAAAGCCAGGAAGCTG
 AAAAAGATTGTGGAAGAAAAATATGAAGAAAATAGCAAACGAATGCAAGAATTGAGATCT
 CGGAACCTTTCAGCAGCTGAGTGTGATGTACTCCATGAAAAACACATTTAAAAGGAATG
 GAAGAAAAGGAGGAGCAACCTGAGGGAAGACTTCTTGTTCACCCAGGACGAGGATGAA
 GAGAGGTGGCAAGGCAGGGAAGAGGAATCTGATGAACCAACTTTAGAGAACCTGCCTGAG
 TCTCAGCCTATTCTTCCATGGACCTCCACGAACCTTGAATCAATTGTAGAGGATGCCACA
 TCTGACCTTGATACCATGAGATCCCAGAAGACCCACTTGTGGCTGAAGAGTACTACGCT
 GATGCATTTGATTCTATTGTGTAGAGAGTGATGAGGAGGAAGAAGAAATAGCGTTAGAA
 AGACCAGAGAAAAGAAATCAGGAATGAGGGATCCCAGCCTGCTTACAGAACAAACCAACAG
 GACAGTGATATCGAAGCGTTGGCCAGGTGTTGGAAAATGTCCTGGGTTGCACTTCTCTA
 GACACAAAGACCATCACACCATGGCTGAAGACATGTCCCAGGACCACCAATTTTCAAC
 AGTGTGATGGCCAGGACCAAGATGAAACGCATGAGGGAATCAGCCATGCAGAAGCTGGGG
 ACAGAAGTATTTGAAGAGGTCTATAATTACCTCAAGAGAGCAAGGCATCAGAATGCTAGC
 GAAGCAGAGATCCGCGAGTGTGGAAAAGTGGTGCCTCAAGCCAGCGACTGTTTTGAA
 GTGGACCAGCTCCTGTACTTTGAAGAGCAGTTGCTGATCACGATGGGAAAAGAACCTACT
 CTCAGAACCATCTCTAG

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024800 unedited
 NGTAACGTACAAATTTGTATACGACTCATATAGGGCGGCCGATTTCGGCAGGAGCCTT
 AATCTCATCTTTAAAATAAGAGAATTACTGAGTGACCTGAAGGACCTTTTCAGCTGGAA
 AGTCTGAACTGACCAACTGGATGAATTTGACCATTTCTTAGGAGACTGGAATGTTAAG
 TTTCTATAAATGAATGAACCAGTTCTCTCTGTTTGGAGCAATGCTGAAATCCAAGAGG
 CAGCTAAGTGTGTGAGTGGATCAACAGCCATTTCCAATTATCAAAGACCTTGATTGCAA
 GAAGATACGTGCTTCAACAAAACTTGGCAGTGGAAAGTTTTGAACTGTCTATCTGGTTT
 CAGACAAGAAAGCCAAACGAGGAGAGGAATTAAGGTACTTAAGGAAATATCTGTTGGAG
 AACTAAATCCAATGAACTGTACAGGCCAATTTGGAAGCCCACTCCTCTCAAAGCTGG
 ACCACCCAGCCATTGTCAAGTCCATGCAAGTTTTGTGGAGCAAGATAATTTCTGCATTA
 TCACGGAGTACTGTGAGGGCCGAGATCTGGACGATAAAATTCAGGAATATAAACAAGCTG
 GAAAAATCTTTCAGAAAAATCAAATAATAGAATGGTTTATCCAGCTGCTGCTGGGAGTTG
 ACTACATGCATGAGAGGAGGATACTTCATCGAGACTTAAAGTCAAAGAATGATTTTCTGN
 AAAATAATCTCCTTAAAAATGGAGATTTTGGAGTTTCTCGACTTCTAATGGGATCCTGT
 GACCTGGCCACACTTTTACTGGAACCTCCCATATATGAGTCTGAGGCTCTGANACACCN
 AAGCTATGACACANAGTCNGACATCTGGTCACTGGCATGCATTTTG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_024800 unedited TCCGACTTTTACTGGGACCGCGGCCCAATCGAGGATCGGTTTTTTTTTTTTTTTTTTTT AAAGAAAAATAGGTGATTTATTTTGTAACTGTGAAAACATGTTTATTTTGAATACAAAT CTTGAATTATCTATGGATGAGTTTAAAATAAATCATAGAAGAGAATCACTTTTTGGATTT TTAATCCAGGTCTTGTGTGTATGAAATACACACATATCTTCCTTATTAGTCATGGAA GGGCAAAAGTGGACCAAAAACAGGTCAGCTAAGACAGGCATGTCTGGCTTCTGGGCTGTA GCTCAGCATGTTGTAGGCTAGAGTCCAGCGACCTCACTGGCAGGCTGCCTACAGTCCAT GACACCCTAGGCAGTCAGGCACTGAGCTCTGCCCTCCACCTGAAAATAATGAAGAGCACA CNGACTTCTCCCGTGCCATCGCCAGGGAGACCTCAATCCCGACTGGAAGCCCTTGAGG GCGCCACATGGAGAGAAATGCCCTGTTTCATGGGGAGCCAACGCTTGGATCTATGACGCTT ATGTTTAGGGGGTTGCGCCACATAGATATTTATGTCGTTCTCATGCTGGGTTGCCCCGC TTCGCCCTCTTTACAGCATCCTGTTTCTTTTCTTGACGTAATACTAAGCGCAGTTTC GTGTGCTTTTGTTCGCGAGCCACTCCCATCTAACGATCTACACCCTCCCCCCCCAC AAGACTCCCTCCCTATCCTTCGTGCGCCCGTCTACCTTTGACCTTCGTTTTTTCATT TCTCCTTTGATGTATCTTTTCTGCTGGTTTTCTGTTTTTTTTTGTTTTTTAGCCCCG CGCCACCCTGCCTGCTCCATGGCCTTCAGGACCCTTGTTGCACGTTTGCCCTTCTCCT CTGCGTTCGCTTGTCTTCTGTTCTTGTGTTTTCTTCTCTCGTTGATTTGTTTTTTT GGCTGACTCT
Restriction Sites:	NotI-NotI
ACCN:	NM_024800
Insert Size:	3000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_024800.2 , NP_079076.2
RefSeq Size:	2939 bp
RefSeq ORF:	1938 bp
Locus ID:	79858
UniProt ID:	Q8NG66
Cytogenetics:	3q22.1
Domains:	pkinese, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase

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]
Transcript Variant: This variant (1) encodes isoform (1), also known as NEK11L.