

Product datasheet for **SC323687**

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-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC323687 sequence for NM_024800 edited (data generated by NextGen Sequencing)

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ATGCTGAAATTC AAGAGGCAGCTAAGTGTGTGAGTGGATCAACAGCCATTTCCACTTAT
CCAAAGACCTTGATTGCAAGAAGATACGTGCTTCAACAAAACTTGGCAGTGAAGTTTT
GGAAGTGTCTATCTGGTTTCAGACAAGAAAGCCAAACGAGGAGAGGAATTAAGGTA
ATGGAAATATCTGTTGGAGAATAAATCCAAATGAACTGTACAGGCCAATTTGGAAGCC
CAACTCCTCTCAAGCTGGACCACCCAGCCATTGTCAAGTTCCATGCAAGTTTTGTGGAG
CAAGATAATTTCTGCATTATCACGGAGTACTGTGAGGGCCGAGATCTGGACGATAAAAT
CAGGAATATAACAAGCTGGAAAAATCTTCCAGAAAAATCAAATAATAGAATGGTTTATC
CAGCTGCTGCTGGGAGTTGACTACATGCATGAGAGGAGGATACTTCATCGAGACTTAAAG
TCAAAGAATGATTTCTGAAAAATAATCTCCTTAAAAATGGAGATTTTGGAGTTTCTCGA
CTTCTAATGGGATCCTGTGACCTGGCCACAACCTTAACTGGAACCTCCCATATATGAGT
CCTGAGGCTCTGAAACACCAAGGCTATGACACAAAGTCGGACATCTGGTCACTGGCATGC
ATTTTGTATGAGATGTGCTGCATGAATCATGCATTCGCTGGCTCCAATTTCTTATCCATT
GTTTTAAAAATTGTTGAAGGTGACACACCTTCTCTCCCTGAGAGATATCCAAAAGAACTA
AATGCCATCATGAAAGCATGTTGAACAAGAATCCTTCATTAAGACCATCTGCTATCGAA
ATTTTAAAAATCCCTTACCTTGATGAGCAGCTACAGAACCTAATGTGTAGATATTCAGAA
ATGACTCTGGAAGACAAAAATTTGGATTGTGAGAGGAGGCTGCTCATATAATTAATGCC
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CCAAGAGAAAGGATGCGGCTGAGGAAGCTCCAGGCGGCTGATGAGAAAGCCAGGAAGCTG
AAAAAGATTGTGGAAGAAAAATATGAAGAAAATAGCAAACGAATGCAAGAATTGAGATCT
CGGAACCTTTCAGCAGCTGAGTGTGATGTACTCCATGAAAAACACATTTAAAAGGAATG
GAAGAAAAGGAGGAGCAACCTGAGGGAAGACTTTCTTGTTCACCCAGGACGAGGATGAA
GAGAGGTGGCAAGGCAGGGAAGGAATCTGATGAACCAACTTTAGAGAACCTGCCTGAG
TCTCAGCCTATTCTTCCATGGACCTCCACGAACCTGAATCAATTGTAGAGGATGCCACA
TCTGACCTTGATACCATGAGATCCCAGAAGACCCACTTGTGGCTGAAGAGTACTACGCT
GATGCATTTGATTCTATTGTGTAGAGAGTGTGAGGAGGAAGAAGAAATAGCGTTAGAA
AGACCAGAGAAAGAAATCAGGAATGAGGGATCCCAGCCTGCTTACAGAACAAACCAACAG
GACAGTGATATCGAAGCGTTGGCCAGGTGTTGGAAAAATGTCCTGGTTGCACTTCTCTA
GACACAAAGACCATCACCAACATGGCTGAAGACATGTCCCAGGACCACCAATTTTCAAC
AGTGTGATGGCCAGGACCAAGATGAAACGCATGAGGGAATCAGCCATGCAGAAGCTGGGG
ACAGAAGTATTTGAAGAGGTCTATAATTACCTCAAGAGAGCAAGGCATCAGAATGCTAGC
GAAGCAGAGATCCGCGAGTGTGGAAAAAGTGGTGCCTCAAGCCAGCGACTGTTTTGAA
GTGGACCAGCTCCTGTACTTTGAAGAGCAGTTGCTGATCACGATGGGAAAAGAACCTACT
CTCCAGAACCATCTCTAG
    
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Clone variation with respect to NM_024800.4
 182 a=>t;1463 a=>t

5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_024800 unedited CCGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAAC CGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCCCTTAATCTCATCTT TAAATAAGGAGAATTACTGAGTGACCTGAAGGACCCTTTTCAGCTGGAAAGTCTGAACCTGACCAACACT GGATGAATTTGACCATTTCTTAGGAGACTGGAATGTTAAGTTTCTATAAATGAATGAACCACTTCTCTCT TGTTTGGAGCAATGCTGAAATTTCAAGAGGCAGCTAAGTGTGTGAGTGGATCAACAGCCATTTTCCACTT ATCCCAAAGACCTTGATTTGCAAGAAGATTACGTGCTTACCAAAAAAAGTGGCAGTTGGAAAGTTTTTG GACCTGGTCCTATCTGTTTTGAGAACAAAGAAAACGAGGAAAGAGGATTTAAAGGACTTTATGA AAAATATCTTGTGGAGGAACTAAAATCAAATGAAACTGGACCGGCCATTTGGAAGCCCCACCTCTCT TTCCAACCGGCCACCCAGCCAATGGGCCAGGTTCCATTCCAGGTTTGTGGGAACAAGATTATTTTCGG CTATACCCGAAACCGGTAGGGCCGAGTCTCGGGGAGATAAATTTTCGGATTACAACCTGGAAAACCTCCGA ATACAAATAGAAGGTAACCCCTCGCTGGATTGCACTCTCGAGAGAGAGACTCTCTCAGACTTAGTCCAGA GAGTTTTGAGATAATCCCTAATGGATTGAGTTTCGCATCTAGATCTGACTGCCACACTACTGATCCATAA GTCAGGCTGACAGTTACATGACTGACGAGCATGGGAGGTGCTGTATGCCTGTCAAACCTAACGTCAAGTG AGAAG
Kinase Domain Sequence:	>SC323687 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CAACTTGGCAGTGGAGTTTGGACTGTCTATCTGGTTTCAGACAAGAAAGCCAAACGAGGAGAGGAATTAA AGGTACTTATGGAATATCTGTTGGAGAACTAAATCCAAATGAACTGTACAGGCCAATTTGGAAGCCCA ACTCCTCTCCAAGCTGGACCACCCAGCCATTGTCAAGTTCATGCAAGTTTTGTGGAGCAAGATAATTTTC TGCATTATCACGGAGTACTGTGAGGGCCGAGATCTGGACGATAAA
Restriction Sites:	Please inquire
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).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes isoform (1), also known as NEK11L.</p>