

Product datasheet for SC323388

NEK9 (NM_033116) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEK9 (NM_033116) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEK9
Synonyms:	APUG; LCCS10; NC; NERCC; NERCC1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC323388 sequence for NM_033116 edited (data generated by NextGen Sequencing)

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ATGTCGGTGGCGAGTACGAGCGACTGCGATTCCATCAACTCGGACTTTGGGAGC
GAGTCCGGGGTTGCGGGGACTCGAGTCCGGGGCTAGCGCCAGTCAGGGGCCGCGAGCC
GGCGGCGCGCGGAGCAGGAGGAACTGCACTACATCCCCATCCGCGTCTGGGCCGC
GGCGCCTTCGGGGAAGCCACGCTGTACCGCCGACCGAGGATGACTCACTGGTTGTGTGG
ATGGAAGTCGATTTGACCCGGCTGTCTGAGAAGGAACGTCGTGATGCCTTGAATGAGATT
GTTATTCTGGCACTGCTGCAGCATGACAACATTATTGCCTACTACAATCACTTCATGGAC
AATACCACGCTGCTGATTGAGCTGGAATATTGTAATGGAGGGAACCTGTATGACAAAATC
CTTCGTCAGAAGGACAAGTTGTTTGAGGAAGAGATGGTGGTGTGGTACCTATTTTCAGATT
GTTTCAGCAGTGAGCTGCATCCATAAAGCTGGAATCCTTCATAGAGATATAAAGACATTA
AATATTTTTCTGACCAAGGCAAACCTGATAAACTTGGAGATTATGGCCTAGCAAAGAAA
CTTAATTTCTGAGTATTCATGGCTGAGACGCTTGTGGAAACCCCATATTACATGTCTCCA
GAGCTCTGTCAAGGAGTAAAGTACAATTTCAAGTCTGATATCTGGGCAGTTGGCTGCGTC
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GACAAAGTTGCTGGCCCTGAAGTGTAGAACCCATGCAGCTGAACCTCTCTCAGCAAT
CCAGTGGAGCAGTCTCCTGTGGAGATAATCATGTGGTGGTCTGACACGAAACAAGGAA

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GTCTATTCTTGGGGCTGTGGCGAATATGGACGACTGGGTTTGGATTTCAGAAGAGGATTAT
TATACACCACAAAAGGTGGATGTTCCCAAGGCCTTGATTATTGTTGCAGTTCAATGTGGC
TGTGATGGGACATTTCTGTTGACCCAGTCAGGCAAAGTGTGGCCTGTGGACTCAATGAA
TTCAATAAGCTGGGTCTGAATCAGTGCATGTGGGAATTATCAACCATGAAGCATACCAT
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GGGATGCATTCCAAAGGAACTCAGACAGCAAAGGAAGAGATGGAATGGATCCAAAGCCT
GACTTAGATTGATTCTGCTGGTCCCTCCTGGGAACAGACTCCTGTAGACCCAGCCTCTAG
    
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Clone variation with respect to NM_033116.4
 242 a=>t;324 c=>t;1286 g=>a

5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_033116 unedited
 CCGCCCGTTGAGCAATGGGCGGTAGGCGTGTACGGGGCGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA
 ACCGTCAAAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACCCAGGACGGATCCCGCGGG
 CCGGCATCTGAAGCGAGCGGGACGCAGCGCGGCCAGGGCCTCCGGGCATACGCAGGCTGGTCCCAAGGC
 CCGCGGCCCGCCATGTCGGTGTGGGCGAGTACGAGCGACACTGCGATTCCATCAACTCGGACTTTGG
 GAGCGAGTCCGGGGTTGCGGGGACTCGAGTCCGGGGCCTAGCGCCAGTCAGGGGCCGCGATCTTGTTTG
 TTGGTGCGGCGGAGCAGGAGGAAGTGCCTACATCCCCATCCCGCGTCTGGGCCGCGCGCGTCCGGGG
 AAGCCACCGCTTGTACCGGCCGACCGAGGATGACTCACTGGTGGTGTGGATGGAAGTCGATTTGACCC
 GGCTTGTCTGAGAGGAACGTCGTTGAGCCTTGATGAGATTGTTATTCCTGGCACTGCTGGAGCTGGCCAC
 ATATTGCTAACTACATCACTTCATGGCCATACCAGCGCTGTGGATGACCTGAAAATGTAATGGAGGAACC
 GTGTAGACAATCTCTTCAAGGACATTTGTTGAGAAAGGGTGTGGACCATCAATGTTACACAGACTGT
 ACTAAAGCTGAATCTTAGGAGATCAGACCATACTTTCTGCACGGAACGTAAGTGGCATTGCTTACGGAT
 CATTTTCGATTTTCTGCGAACCTTGGACCTTATATGTCC

Kinase Domain Sequence:

>SC323388 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
 CCCTGMGCAATGGGCGGTAGGCKGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCA
 GAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACCCAGGACGGATCCCGGGGCCGCGAT
 CTGAAGCGAGCGGGACGCAGCGCGGCCAGGGCCTCCGGGCATACGCAGGCTGGTCCCAAGGCCCGCGG
 CGCCGCATGTCGGTGTGGGCGAGTACGAGCGACACTGCGATT

Restriction Sites:

Please inquire

ACCN:

NM_033116

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_033116.3 , NP_149107.3
RefSeq Size:	3244 bp
RefSeq ORF:	2940 bp
Locus ID:	91754
UniProt ID:	Q8TD19
Cytogenetics:	14q24.3
Domains:	RCC1, pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	This gene encodes a member of the NimA (never in mitosis A) family of serine/threonine protein kinases. The encoded protein is activated in mitosis and, in turn, activates other family members during mitosis. This protein also mediates cellular processes that are essential for interphase progression. [provided by RefSeq, Jul 2016]