

Product datasheet for **SC323448**

NEK8 (NM_178170) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEK8 (NM_178170) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEK8
Synonyms:	JCK; NEK12A; NPHP9; RHPD2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_178170, the custom clone sequence may differ by one or more nucleotides

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ATGGAGAAGTACGAGCGGATCCGAGTGGTGGGGAGAGGTGCCTTCGGGATTGTGCACCTGTGCCTGCGAA
AGGCTGACCAGAAGCTGGTGCATCAAGCAGATTCCAGTGGAACAGATGACCAAGGAAGAGCGGCAGGC
AGCCCAGAAATGAGTGCCAGGTCCTCAAGCTGCTCAACCACCCCAATGTCATTGAGTACTACGAGAATTC
CTGGAAGACAAAAGCCCTTATGATCGCCATGGAATATGCACCAGGCGGCACTCTGGCTGAGTTCACAAA
AGCGCTGTAATTCCTGCTGGAGAGGAGACCATCCTGCACTTCTTCGTGCAGATCCTGCTTGCACCTGCA
TCATGTGCACACCCACCTCATCCTGCACCAGACCTCAAGACCCAGAACATCCTGCTTGACAAAACCCGC
ATGGTCGTCAGATCGGTGATTCGGCATCTCCAAGATCCTTAGCAGCAAGAGCAAGGCCTACACGGTGG
TGGGTACCCCATGCTATATCTCCCTGAGCTGTGTGAGGGCAAGCCCTACAACCAGAAGAGTGACATCTG
GGCCCTGGGCTGTGCTCTACGAGCTGGCCAGCCTCAAGAGGGCTTCGAGGCTGCGAACTTGCCAGCA
CTGGTGTGAAGATCATGAGTGGCACCTTTCACCTATCTTGACCGGTACAGCCCTGAGCTTCGCCAGC
TGGTCTGAGTCTACTCAGCCTGGAGCCTGCCAGCGGCCACCACTCAGCCACATCATGGCAGACCCCT
CTGCATCCGTGCCCTCCTCAACCTCCACACCGAGTGGGCAAGTGTCCGCATGCGGAGGGCAGAGAAGTCC
GTGGCCCCAGCAACACAGGGAGCAGGACCACCACTGTCCGCTGCAGAGGTATCCCCGGGGACCTGTGA
GGCCAGCCATCCCACCACCACTGTCTGTCAGTGTATGCCTGGGGTGGTGGGCTGGGCACCCCCCTGCGGT
GCCAATGCTCAACACAGAGGTGGTCCAGGTGGCAGCTGGGCGCACGCAGAAAAGCCGGCGTCACGCGCTCT
GGGCGTCTCATCTGTGGGAGGCCACCCCTAGGTGCAGGGCGGAGGCAGTCTCCTTCTGGGGCAGTGG
AGCAGCCACAGCCCCAGTTCATCTCGCGTTTCTGGAGGGCCAGTCGGGTGTGACCATCAAGCACGTGGC
CTGTGGGACTTCTTCACTGCCTGCCTGACTGACAGAGGCATCATCATGACATTCGGCAGCGGCAGCAAT
GGGTGCTAGGCCATGGCAGCCTCACTGACATCAGCCAGCCACCACTTGTGGAGGCTTTGCTGGGCTATG
AAATGGTGCAGGTGGCCTGTGGGCTCTCACGTGCTGGCCCTGTCCACTGAGCGAGAACTATTTGCCTG
GGCCGTGGAGACAGCGCAGACTGGGGTAGGCACCAGGGAGTCCCACAGCTGCCCCAGCAGGTGCC
ATGCCCCAGGACAGGAAGCTCAGCGAGTTGTATGTGGTATCGATTCTCCATGATCCTCACTGTGCCTG
GCCAAGCCCTAGCCTGTGGGAGCAACAGGTTCAACAAGCTGGGCTGGACCACCTCTCCCTGGGGGAGGA
GCCTGTCCCCACCAGCAAGTGGAGGAGGCCCTGAGCTTCACTACTAGGCTCTGCACCCTGGACCAG
GAGCCTCTGCTGAGTATAGACCTGGGCACTGCTCACTCAGCTGCTGTGACTGCCTCGGGTATTGCTACA
CTTTTGGCAGCAATCAGCACGGACAGTTGGGCACCAATACTCGCCGAGGAGTGGGCACCCCTGTAAGGT
CCAAGGCCTTGGGGCATCAAGATGGCAATGGTAGCCTGTGGGATGCCTTCACTGTAGCTATTGGGGCA
GAGAGCGAAGTGTACTCTTGGGGCAAAGGGCGCGAGGTGATTGGGAAGGAGGGATGAGGATGCCGGAC
TCCTCGGCCAGTGCAGTTGGATGAGACACACCCTTACACGGTGACTTCCGTGTCCTGTTGCCATGGAAA
CACCTCTGGCTGTTTCGATCGGTACAGATGAGCCGGTCCCCCCTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_178170 unedited

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ACCGCCGTTGAGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTGTGAA
CCGTGAGAAATTTGTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGAGAGAGAGAAGT
ACGAGCGGATCCGAGTGGTGGGAGAGGTGCCTTCGGGATTGTGCACCTGTGCCTGCGAAAGGCTGACCA
GAAGCTGGTGCATCATGCAGATTCCAGTGGAACAGATGACCAAGGAAGAGCGGCAGGCAGCCAGAAT
GAGTGCCAGGTCCTCAAGCTGCTCAACCACCCCAATGTCATTTGAGTACTACGAGAATTTCTTCTGGAAGA
CAAAGCCCTTTATGATCGGCCATGGGAAATATGGCACCAGGCGGGCACTCTGGCTGAGTTCATCCAAA
AAGCCGCTGGTATTTCCCTGGCTTGAAGGAAGAAGACCATTCTGCAATTTCTTTCGTGCGAATCCCTG
GCTTGCCTGCCATCATGGTGCACACCCACTTTAATCCTTGCACGAAAACCTAAAAACCCAAAACATCTG
TGTTTGACAAACCCCGCAGGGCCTTAAAGATCGGGAATTTGCGGCATCTCCGAATATCTTAACAGCAAAG
CCAAGGGCTACAGGGGGGTGGGATCCATCTCTATTTTCCCGAGATCTGTGAGAGGACACCCCTTACA
CCAAGAGAAGAACTGGGGCCCGGGTGTGTCTCTAGATGTGGCCCTAGGGTTTAGACGCGACAATTCGC
ATCGTGGCAGATATAGATGGGCCATTGTCCCTATGTCCGCCAACCAGTGTCCCTGTGTCAGTATCAT
CAGATACGACAGGCCATCAACAATAGAGAACACTGTACTGTTGGCTCTTCATTTACACCATTGTAGATG
TACGTGTGAGAGA
    
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Kinase Domain Sequence:	>SC323448 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 CYCAGMGCATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCA GAATTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGAGAGAGAGAAGTACGAGC GGATCCGAGTGGTGGGGAGAGGTGCCTTCGGGATTGTGCACCTGTGCCTGCGAAAAGGCTGACCAGAAGCT GGTGATCATCATGCAGATTCCAGTGGAACAGATGACCAAGGAAGA
Restriction Sites:	Please inquire
ACCN:	NM_178170
Insert Size:	2700 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_178170.2 , NP_835464.1
RefSeq Size:	2858 bp
RefSeq ORF:	2079 bp
Locus ID:	284086
UniProt ID:	Q86SG6
Cytogenetics:	17q11.2
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	This gene encodes a member of the serine/threonine protein kinase family related to NIMA (never in mitosis, gene A) of <i>Aspergillus nidulans</i> . The encoded protein may play a role in cell cycle progression from G2 to M phase. Mutations in the related mouse gene are associated with a disease phenotype that closely parallels the juvenile autosomal recessive form of polycystic kidney disease in humans. [provided by RefSeq, Jul 2008]