

Product datasheet for **SC331516**

NEK2 (NM_001204183) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: NEK2 (NM_001204183) Human Untagged Clone
Tag: Tag Free
Symbol: NEK2
Synonyms: HsPK21; NEK2A; NLK1; PPP1R111; RP67
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331516 representing NM_001204183.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCCTTCCCGGGCTGAGGACTATGAAGTGTGTACACCATTGGCACAGGCTCCTACGGCCGCTGCCAG
AAGATCCGGAGGAAGAGTGATGGCAAGATATTAGTTTGGAAAGAAGCTTGACTATGGCTCCATGACAGAA
GCTGAGAAACAGATGCTTGTCTGAAGTGAATTTGCTTCGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
TACTATGATCGGATTATTGACCGGACCAATACAACACTGTACATTGTAATGGAATATTGTGAAGGAGGG
GATCTGGCTAGTGAATTACAAAGGGAACCAAGGAAAGGCAATACTTAGATGAAGAGTTTGTCTTCGA
GTGATGACTCAGTTGACTCTGGCCCTGAAGGAATGCCACAGACGAAGTGTGGTGGTCATACCGTATTG
CATCGGGATCTGAAACCAGCCAATGTTTTCTGGATGGCAAGCAAAACGTCGAAGCTTGGAGACTTTGGG
CTAGCTAGAATATTAACCATGACACGAGTTTTGCAAAAACATTTGTTGGCACACCTTATTACATGTCT
CCTGAACAAATGAATCGCATGTCCTACAATGAGAAATCAGATATCTGGTCAATGGGCTGCTTGTGTAT
GAGTTATGTGCATTAATGCCTCCATTTACAGCTTTTAGCCAGAAAGAAGCTCGCTGGGAAAATCAGAGAA
GGCAAATTCAGGCGAATTCATACCGTTACTCTGATGAATTGAATGAAATATTACGAGGATGTTAAAC
TTAAAGGATTACCATCGACCTTCTGTTGAAGAAATTTGAGAACCCTTTAATAGCAGATTTGGTTGCA
GACGAGCAAAGAAGAAATCTTGAGAGAAGAGGGCGACAATTAGGAGAGCCAGAAAAATCGCAGGATTCC
AGCCCTGTATTGAGTGAGCTGAAACTGAAGGAAATTCAGTTACAGGAGCGAGAGCGAGCTCTCAAAGCA
AGAGAAGAAAGATTGGAGCAGAAAGAACAGGAGCTTTGTGTTTCGTGAGAGACTAGCAGAGGACAAACTG
GCTAGAGCAGAAAAATCTGTTGAAGAACTACAGCTTGCTAAAGGAACGGAAGTTCTGTCTCTGGCAAGT
AATCCAGGTATGAGAATCAACTTGGTCAACAGAAGCTGGTGCTACAAATGA
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001204183
Insert Size: 1155 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).



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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:	<u>NM_001204183.1</u>
RefSeq Size:	1938 bp
RefSeq ORF:	1155 bp
Locus ID:	4751
UniProt ID:	<u>P51955</u>
Cytogenetics:	1q32.3
Protein Families:	Druggable Genome, Protein Kinase
MW:	44.9 kDa
Gene Summary:	<p>This gene encodes a serine/threonine-protein kinase that is involved in mitotic regulation. This protein is localized to the centrosome, and undetectable during G1 phase, but accumulates progressively throughout the S phase, reaching maximal levels in late G2 phase. Alternatively spliced transcript variants encoding different isoforms with distinct C-termini have been noted for this gene. [provided by RefSeq, Feb 2011]</p> <p>Transcript Variant: This variant (2) differs at the 3' end compared to variant 1. This results in a frame-shift and a shorter isoform (2, also known as NEK2B) with a distinct C-terminus compared to isoform 1. Isoforms 1 and 2 have been reported to exhibit distinct pattern of expression during mitosis (PMID:11742531).</p>