

## Product datasheet for **SC314802**

### NEK4 (NM\_003157) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NEK4 (NM_003157) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEK4
Synonyms:	NRK2; pp12301; STK2
Vector:	<u>pCMV6 series</u>



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_003157, the custom clone sequence may differ by one or more nucleotides

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ATGCCCTGGCCGCTACTGCTACCTGCGGGTCGTGGCAAGGGGAGCTATGGAGAGGTG
ACGCTTGTGAAGCACCGGCGGGACGGCAAGCAGTATGTCATCAAAAACTGAACCTCCGA
AATGCCTCTAGCCGAGAGCGGCGAGCTGCTGAACAGGAAGCCAGCTCTTGTCTCAGTTG
AAGCATCCCAACATTGTACCTACAAGGAGTCATGGGAAGGAGGAGATGGTCTGCTCTAC
ATTGTCATGGGCTTCTGTGAAGGAGGTGATTTGTACCGAAAGCTCAAGGAGCAGAAAGGG
CAGCTTCTGCGGAGAATCAGGTGGTAGAGTGGTTTGTACAGATCGCCATGGCTTTGCAG
TATTTACATGAAAAACACATCCTTCATCGAGATCTGAAAACCTCAAATGTCTTCTAACA
AGAACAAACATCATCAAAGTAGGGGACCTAGGAATTGCCCGAGTGTGGAGAACCCTGT
GACATGGCTAGCACCCCTATTGGCACACCCTACTACATGAGCCCTGAATTGTTCTCAAAC
AAACCCTACAATAAGTCTGATGTTTGGGCTCTAGGATGCTGTGTCTATGAAATGGCC
ACCTTGAAGCATGCTTTCAATGCAAAAGATATGAATTCTTTAGTTTATCGGATTATTGAA
GGAAAGCTGCCAGCAATGCCAAGAGATTACAGCCAGAGCTGGCAGAAGTATAAGAACA
ATGCTGAGCAAAAGGCCGAAGAAAGGCCGTCTGTGAGGAGCATCCTGAGGCAGCCTTAT
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ATTAATAATGGTGACTCTCAATCCAAGCCTTTTGTACAGTGGTTTCTGGAGAGGCGAA
TCAAATCATGAAGTAATCCACCCCAACCACTCTTCTGAGGGCTCCCAGACATATATA
ATGGGTGAAGGCAAAATGTTTGTCCAGGAGAAACCCAGGGCCTCTGGTCTCTGAAGTCA
CCTGCCAGTCTGAAAGCCCATACCTGCAAAACAGGACTTGAGCAATACCACAGAAGTAGCC
ACAATCAGTAGCGTAAATATTGACATCTTACCTGCAAAAGGGAGGGATTCAAGTGAAGT
GGCTTTGTTCAAGGAGAATCAGCCAAGATATTTGGATGCCTCTAATGAGTTAGGAGGTATA
TGCAGTATTTCAAGTGAAGAGGAGATGCTGCAGGACAACACTAAATCCAGTGGCCAG
CCTGAAAACCTGATTTCCATGTGGTCTCTGACATTGTCAGTGGGAAAAGAAATGAACCA
GTGAAGCCTCTGCAGCCCTAATCAAAGAACAAAAGCCAAAGGACCAGAGTCTTGCCTG
TCGCCAAGCTGGAGTGCAGTGGCACAATCTTGGCTCACAGCAACCTCCGCTCTGGGT
TCAAGTATTCTCCAGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCGTGTGCCACCAC
GCCCAGGATCAAGTTGCTGGTGAATGTATTATAGAAAAACAGGGCAGAATCCACCCAGAT
TTACAGCCACACAACCTGGGTCTGAACCTTCCCTGTCTCGACAGCGACGGCAAAAGAGG
AGAGAACAGACTGAGCACAGAGGGGAAAAGAGACAGGTCCGAGAGATCTCTTTGCTTTC
CAAGAGTCGCTCCTCGATTTTTGCCTTCTCATCCATTGTTGGGAAAGTGGATGTCACA
TCAACACAAAAAGAGGCTGAAAACCAACGTAGAGTGGTCACTGGGTCTGTGAGCAGTTCA
AGGAGCAGTGAGATGTCATCATCAAAGGATCGACCATTATCAGCCAGAGAGAGGAGGCGA
CTAAAGCAGTCACAGGAAGAAATGTCCTCTTCAAGGCCCTTCAAGTGAAGAAAGCGTCTG
AGTGTAGCAGGGCCAGGAAAACCCAGGAAGAAGACCAGCCCTTGCTGCCCGACGGCTC
TCCTCTGACTGCAGCGTCACTCAGGAAAGGAAACAGATTCAATGTCTGTCTGAGGATGAG
TTAAGTCTTCTACAAGTTCAACTGATAAGTCAAGTGGGATTACGGGAAAGGAAAGGT
CAGACAAATGAAATTAATGCCTTGGTACAATTGATGACTCAGACCCTGAAACTGGATTCT
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AAATATCGGGACACACTGATACTTCATGGGAAGGTTGCAGAAGAGGCAGAGGAAATCCAT
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CTTTTGGAGGAGGAGGATGAATTTGATAGAGAGGTACGTTTGGGGAGCACATGGGTGAA
AAGTATACAACCTACAGTGTGAAAGCTCGCCAGTTGAAATTTTTTGAAGAAAACATGAAT
TTT

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**Restriction Sites:** Please inquire

**ACCN:** NM\_003157

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_003157.1</a></u> , <u><a href="#">NP_003148.1</a></u>
<b>RefSeq Size:</b>	3698 bp
<b>RefSeq ORF:</b>	2526 bp
<b>Locus ID:</b>	6787
<b>UniProt ID:</b>	<u><a href="#">A5YM70</a></u>
<b>Cytogenetics:</b>	3p21.1
<b>Domains:</b>	pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a serine/threonine protein kinase required for normal entry into replicative senescence. The encoded protein also is involved in cell cycle arrest in response to double-stranded DNA damage. Finally, this protein plays a role in maintaining cilium integrity, and defects in this gene have been associated with ciliopathies. [provided by RefSeq, Jan 2017]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>