

Product datasheet for **SC310308**

NEK3 (NM_152720) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEK3 (NM_152720) Human Untagged Clone
Tag:	Tag Free
Symbol:	NEK3
Synonyms:	HSPK36
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC310308 representing NM_152720.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGATGACTACATGGTCTGAGAATGATTGGGAGGGCTCCTTCGGCAGAGCTCTTTGGTTGAGCAT
GAAAGCAGTAATCAGATGTTTGCCATGAAAGAAATAAGGCTTCCCAAGTCTTCTCTAATACACAGAAT
TCTAGGAAGGAGGCTGTTCTTTTAGCCAAAATGAAACACCCCTAATATTGTTGCCTTCAAAGAATCATT
GAAGCTGAAGGACACTTGTATATTGTGATGGAATACTGTGATGGAGGGATCTAATGCAAAAAGTTAAA
CAGCAGAAAGGAAAGTTATTTCCGTAAGACATGATACTTAATTGGTTTACCCAAATGTGCCTTGGAGTA
AATCACATTCACAAGAACGTGTGCTACACAGAGATATCAAGTCCAAGAATATCTTCCCTCACTCAGAAT
GGAAAAGTGAATTTGGGAGACTTTGGATCTGCCGCTTCTCTCCAATCCGATGGCATTGCTTGTACC
TATGTGGAACTCCTTATTATGTGCTCCAGAAATTTGGGAAAACCTGCCTTATAACAATAAAAGTGAC
ATCTGGTCTTGGTTGCATCCTGTATGAACTCTGTACCCTTAAGCATCCATTTAGGCAAATAGTTGG
AAAAATCTTATCCTCAAAGTATGTCAAGGGTGCATCAGTCCACTGCCGCTCATTACTCCTATGAACTT
CAGTTCCTAGTCAAGCAGATGTTTAAAAGGAATCCCTCACATCGCCCTCGGCTACAACGCTTCTCTCT
CGAGGCATCGTAGCTCGGCTTGTCCAGAAGTGCTTACCCCGAGATCATCATGGAATATGGTGAGGAA
GTATTAGAAGAAATAAAAAATTCGAAGCATAACACACCAAGAAAAAAACAAACCCAGCAGAAATCAGG
ATAGCTTTGGAAATGAAGCAAGCACAGTGAAGAGGAAGAACAAGATAGAAAGGGTAGCCATACTGAT
TTGGAAGCATTAAATGAAATTTAGTTGAAAGTGCAATGAGAAGAGTAACAGAGAAGAAAAAGGTAAT
AAGTCAGTCCATCTGAGGAAAGCCAGTTCACCAATCTCATAGACGACAGTGGGAGAAAAATGTACCC
AATACAGCTCTTACAGCTTTGAAAAATGCATCCATACTCACCTCCAGTTTAAACAGCAGAGGACGATAGA
GGTGGTTCTGTAATAAAGTACAGCAAAAATACTACTCGTAAGCAGTGGCTCAAAGAGACCCCTGACACT
TTGTTGAACATCCTTAAGAATGCTGATCTCAGCTTGGCTTTTCAAACATACACAATATATAGACCAGGT
TCAGAAGGGTTCTTGAAGGCCCCCTGTCTGAAGAAACAGAAGCATCGGACAGTGTGATGGAGGTAC
GATTCTGTCAATTTGGATCCAGAGCGACTTGAGCCTGGGCTAGATGAGGAGGACACGGACTTTGAGGAG
GAAGATGACAACCCCGACTGGGTGTCAGAGCTGAAGAAGCGAGCTGGATGGCAAGGCCTGTGCGACAGA
TAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

Restriction Sites: Sgfl-Mlul

Plasmid Map: □

ACCN: NM_152720

Insert Size: 1521 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 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.

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:

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_152720.2](#)

RefSeq Size: 2424 bp

RefSeq ORF: 1521 bp

Locus ID: 4752

UniProt ID: [P51956](#)

Cytogenetics: 13q14.3

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

MW: 57.7 kDa

Gene Summary: This gene encodes a member of the NimA (never in mitosis A) family of serine/threonine protein kinases. The encoded protein differs from other NimA family members in that it is not cell cycle regulated and is found primarily in the cytoplasm. The kinase is activated by prolactin stimulation, leading to phosphorylation of VAV2 guanine nucleotide exchange factor, paxillin, and activation of the RAC1 GTPase. Two functional alleles for this gene have been identified in humans. The reference genome assembly (GRCh38) represents a functional allele that is associated with the inclusion of an additional coding exon in protein-coding transcripts, compared to an alternate functional allele that lacks the exon. [provided by RefSeq, Sep 2019]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same isoform (a). 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.