OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC327037

NEK3 (NM_001146099) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEK3 (NM_001146099) 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)

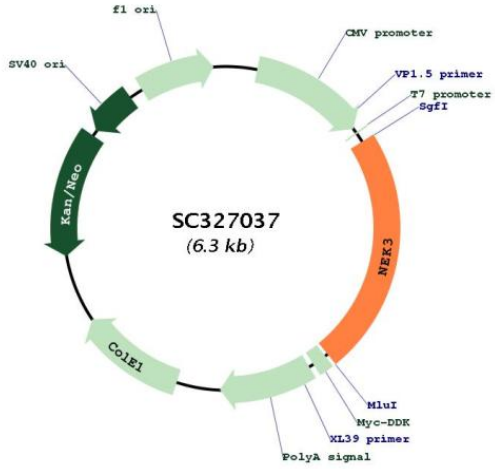
Fully Sequenced ORF:

>SC327037 representing NM_001146099.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATGACTACATGGTCCTGAGAATGATTGGGGAGGGCTCCTTCGGCAGAGCTCTTTTGGTTCAGCAT
GAAAGCAGTAATCAGATGTTTGCCATGAAAGAAATAAGGCTTCCCAAGTCTTTCTCTAATACACAGAAT
TCTAGGAAGGAGGCTGTTCTTTTAGCCAAAATGAAACACCCTAATATTGTTGCCTTCAAAGAATCATTT
GAAGCTGAAGGACACTTGTATATTGTGATGGAATACTGTGATGGAGGGGATCTAATGCAAAAGATTAAA
CAGCAGAAAGGAAAGTTATTTCCTGAAGACATGATACTTAATTGGTTTACCCAAATGTGCCTTGGAGTA
AATCACATTCACAAGAAACGTGTGCTACACAGAGATATCAAGTCCAAGAATATCTTCCTCACTCAGAAT
GGAAAAGTGAAATTGGGAGACTTTGGATCTGCCCGTCTTCTCTCCAATCCGATGGCATTTGCTTGTACC
TATGTGGGAACTCCTTATTATGTGCCTCCAGAAATTTGGGAAAACCTGCCTTATAACAATAAAAGTGAC
ATCTGGTCCTTGGGTTGCATCCTGTATGAACTCTGTACCCTTAAGCATCCATTTCAGGCAAATAGTTGG
AAAAATCTTATCCTCAAAGTATGTCAAGGGTGCATCAGTCCACTGCCGTCTCATTACTCCTATGAACTT
CAGTTCCTAGTCAAGCAGATGTTTAAAAGGAATCCCTCACATCGCCCCTCGGCTACAACGCTTCTCTCT
CGAGGCATCGTAGCTCGGCTTGTCCAGAAGTGCTTACCCCCCGAGATCATCATGGAATATGGTGAGGAA
GTATTAGAAGAAATAAAAAATTCGAAGCATAACACACCAAGAAAAAAACAAGAGGAAGAACAAGATAGA
AAGGGTAGCCATACTGATTTGGAAAGCATTAATGAAAATTTAGTTGAAAGTGCATTGAGAAGAGTAAAC
AGAGAAGAAAAAGGTAATAAGTCAGTCCATCTGAGGAAAGCCAGTTCACCAAATCTTCATAGACGACAG
TGGGAGAAAAATGTACCCAATACAGCTCTTACAGCTTTGGAAAATGCATCCATACTCACCTCCAGTTTA
ACAGCAGAGGACGATAGAGGTGGTTCTGTAATAAAGTACAGCAAAAATACTACTCGTAAGCAGTGGCTC
AAAGAGACCCCTGACACTTTGTTGAACATCCTTAAGAATGCTGATCTCAGCTTGGCTTTTCAAACATAC
ACAATATATAGACCAGGTTCAGAAGGGTTCTTGAAAGGCCCCCTGTCTGAAGAAACAGAAGCATCGGAC
AGTGTTGATGGAGGTCACGATTCTGTCATTTTGGATCCAGAGCGACTTGAGCCTGGGCTAGATGAGGAG
GACACGGACTTTGAGGAGGAAGATGACAACCCCGACTGGGTGTCAGAGCTGAAGAAGCGAGCTGGATGG
CAAGGCCTGTGCGACAGATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001146099

Insert Size:	1470 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_001146099.1
RefSeq Size:	2345 bp
RefSeq ORF:	1470 bp
Locus ID:	4752
UniProt ID:	P51956
Cytogenetics:	13q14.3
Protein Families:	Druggable Genome, Protein Kinase
MW:	55.9 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 (3) lacks an alternate exon in the central coding region, compared to variant 1. The resulting isoform (b) lacks an internal segment, compared to isoform a. This variant represents an alternate haplotype that lacks an 'A' at position 1253. This haplotype is not encoded by the reference assembly. Sequence Note: This sequence represents a protein-coding variant produced from the haplotype represented in the reference (NC_000013.9), Celera, and HuRef assemblies. It lacks an extra 'A' found in an alternate haplotype, but the reading frame is maintained by the lack of an alternate exon.