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Product datasheet for RC223695

NEK11 (NM_145910) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEK11 (NM_145910) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NEK11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC223695 representing NM_145910
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGAAATTCCAAGAGGCAGCTAAGTGTGTGAGTGGATCAACAGCCATTTCCACTTATCCAAAGACCT
TGATTGCAAGAAGATACGTGCTTCAACAAAAACTTGGCAGTGGAAGTTTTGGAACTGTCTATCTGGTTTC
AGACAAGAAAGCCAAACGAGGAGAGGAATTAAAGGTACTTAAGGAAATATCTGTTGGAGAACTAAATCCA
AATGAAACTGTACAGGCCAATTTGGAAGCCCAACTCCTCTCCAAGCTGGACCACCCAGCCATTGTCAAGT
TCCATGCAAGTTTTGTGGAGCAAGATAATTTCTGCATTATCACGGAGTACTGTGAGGGCCGAGATCTGGA
CGATAAAATTCAGGAATATAAACAAGCTGGAAAAATCTTTCCAGAAAATCAAATAATAGAATGGTTTATC
CAGCTGCTGCTGGGAGTTGACTACATGCATGAGAGGAGGATACTTCATCGAGACTTAAAGTCAAAGAATG
TATTTCTGAAAAATAATCTCCTTAAAATTGGAGATTTTGGAGTTTCTCGACTTCTAATGGGATCCTGTGA
CCTGGCCACAACTTTAACTGGAACTCCCCATTATATGAGTCCTGAGGCTCTGAAACACCAAGGCTATGAC
ACAAAGTCGGACATCTGGTCACTGGCATGCATTTTGTATGAGATGTGCTGCATGAATCATGCATTCGCTG
GCTCCAATTTCTTATCCATTGTTTTAAAAATTGTTGAAGGTGACACACCTTCTCTCCCTGAGAGATATCC
AAAAGAACTAAATGCCATCATGGAAAGCATGTTGAACAAGAATCCTTCATTAAGACCATCTGCTATCGAA
ATTTTAAAAATCCCTTACCTTGATGAGCAGCTACAGAACCTAATGTGTAGATATTCAGAAATGACTCTGG
AAGACAAAAATTTGGATTGTCAGAAGGAGGCTGCTCATATAATTAATGCCATGCAAAAAAGGATCCACCT
GCAGACTCTGAGGGCACTGTCAGAAGTACAGAAAATGACGCCAAGAGAAAGGATGCGGCTGAGGAAGCTC
CAGGCGGCTGATGAGAAAGCCAGGAAGCTGAAAAAGATTGTGGAAGAAAAATATGAAGAAAATAGCAAAC
GAATGCAAGAATTGAGATCTCGGAACTTTCAGCAGCTGAGTGTTGATGTACTCCATGAAAAAACACATTT
AAAAGGAATGGAAGAAAAGGAGGAGCAACCTGAGGGAAGACTTTCTTGTTCACCCCAGGACGAGGATGAA
GAGAGGTGGCAAGGCAGGGAAGAGGAATCTGATGAACCAACTTTAGAGAACCTGCCTGAGTCTCAGCCTA
TTCCTTCCATGGACCTCCACGAACTTGAATCAATTGTAGAGGATGCCACATCTGACCTTGGATACCATGC
AACTCACAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC223695 representing NM_145910
Red=Cloning site Green=Tags(s)

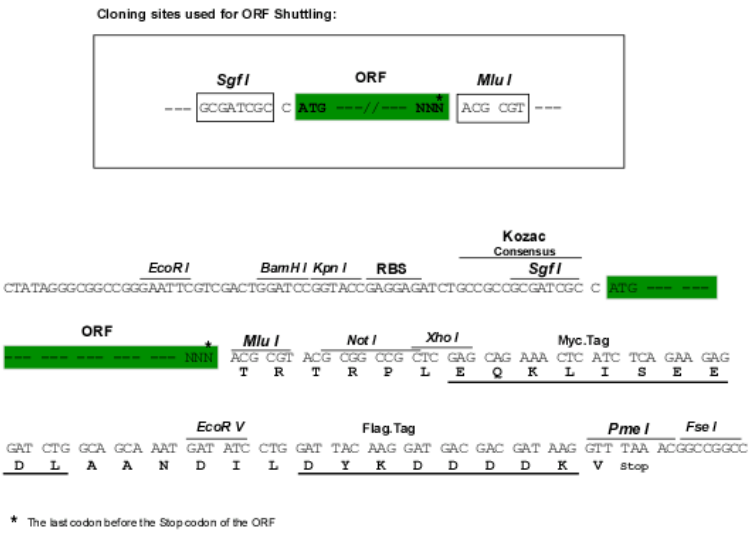
MLKFQEAAKCVSGSTAISTYPKTLIARRYVLQQKLGSGSFGTVYLVSDKKAKRGEELKVLKEISVGELNP
NETVQANLEAQLLSKLDHPAIVKFHASFVEQDNFCIITEYCEGRDLDDKIQEYKQAGKIFPENQIIEWFI
QLLLGVDYMHERRILHRDLKSKNVFLKNNLLKIGDFGVSRLLMGSCDLATTLTGTPHYMSPEALKHQGYD
TKSDIWSLACILYEMCCMNHAFAGSNFLSIVLKIVEGDTPSLPERYPKELNAIMESMLNKNPSLRPSAIE
ILKIPYLDEQLQNLMCRYSEMTLEDKNLDCQKEAAHIINAMQKRIHLQTLRALSEVQKMTPRERMRLRKL
QAADEKARKLKKIVEEKYEENSKRMQELRSRNFQQLSVDVLHEKTHLKGMEEKEEQPEGRLSCSPQDEDE
ERWQGREEESDEPTLENLPESQPIPSMDLHELESIVEDATSDLGYHATHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8062_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145910

ORF Size: 1410 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_145910.4

RefSeq Size: 2080 bp

RefSeq ORF: 1413 bp

Locus ID: 79858

UniProt ID: Q8NG66

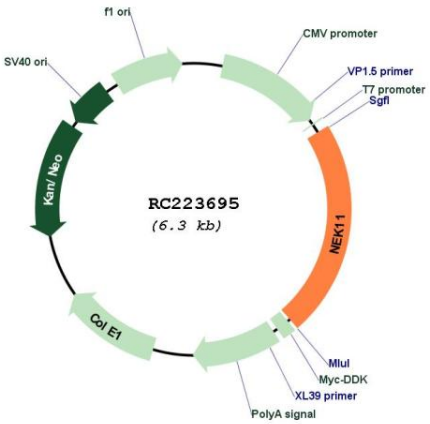
Cytogenetics: 3q22.1

Protein Families: Druggable Genome, Protein Kinase

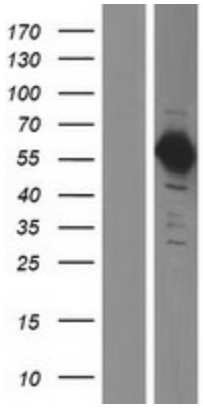
MW: 53.8 kDa

Gene Summary: This gene encodes a member of the never in mitosis gene A family of kinases. The encoded protein localizes to the nucleoli, and may function with NEK2A in the S-phase checkpoint. The encoded protein appears to play roles in DNA replication and response to genotoxic stress. Alternatively spliced transcript variants have been described.[provided by RefSeq, Mar 2009]

Product images:



Circular map for RC223695



Western blot validation of overexpression lysate (Cat# [LY407844]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223695 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).