

Product datasheet for **RC211326**

NEK9 (NM_033116) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEK9 (NM_033116) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NEK9
Synonyms:	APUG; LCCS10; NC; NERCC; NERCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC211326 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGGTGCTGGGCGAGTACGAGCGACTGCGATTCCATCAACTCGGACTTTGGGAGCGAGTCCGGGG
 GTTGCGGGGACTCGAGTCCGGGGCTAGCGCCAGTCAGGGGCCGCGAGCCGGCGGCGCGCGGAGCA
 GGAGAACTGACTACATCCCCATCCGCGTCTGGGCCGCGCGCCTTCGGGGAAGCCACGCTGTACCGC
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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC211326 protein sequence
 Red=Cloning site Green=Tags(s)

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MSVLGEYERHCDSINSDFGSESGGCGDSSPGPSASQGPRAAGGAAEQEELHYIPIRVLGRGAFGEATLYR
RTEDDSL VVWKEVDLTRLSEKERRDALNEIVILALLQHDNIIAYYNHFMNTTLLIELEYCNGNLYDKI
LRQKDKLFEEMVVWYLFQIVSAVSCIHKAGILHRDIKTLNIFLTKANLIKLDYGLAKKLNSEYSMAET
LVGTPIYMSPEL CQGVKYNFKSDIWA VGC VIFELLTLKRTFDATNPLNLCVKIVQGI RAMEVDSSQYSLE
LIQMVHSCLDQDPEQRPTADELLDRPLL RRRREMEEKVTL LNAPTKRPRSSTVTEAPIAVVTSRTSEVY
VWGGGKSTPQKLDVIKSGCSARQVCAGNTHFAVVTVEKELYTWVNMQGGTKLHGQLGHGDKASYRQPKHV
EKLQGKAIRQVSCGDDFTVCVTDEGQLYAFGSDYYGCMGVK VAGPEVLEPMLNFFL S NPVEQVSCGDN
HVVVLTRNKEVSWGCGEYGRGLDSEEDYYTPQKVDVPKALII VAVQCGCDGTFLLTQSGKVLACGLNE
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DTLPYEELQGLKVASEAPLEHKPQVEASSPRLNPAVTCAGKGTPLTPACACSSLQVEVERLQGLVLKCL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6229_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



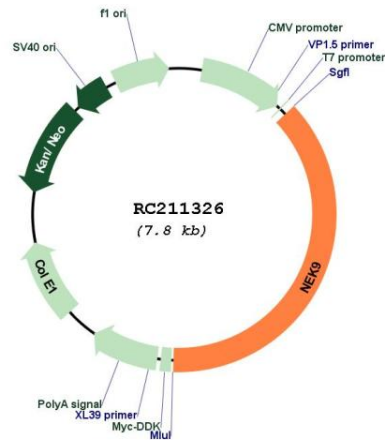
* The last codon before the Stop codon of the ORF

ACCN: NM_033116

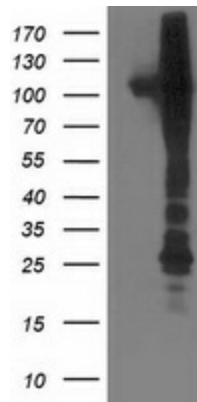
ORF Size: 2937 bp

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:	<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:	NM_033116.6
RefSeq Size:	5560 bp
RefSeq ORF:	2940 bp
Locus ID:	91754
UniProt ID:	Q8TD19
Cytogenetics:	14q24.3
Domains:	RCC1, pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
MW:	107.2 kDa
Gene Summary:	This gene encodes a member of the NimA (never in mitosis A) family of serine/threonine protein kinases. The encoded protein is activated in mitosis and, in turn, activates other family members during mitosis. This protein also mediates cellular processes that are essential for interphase progression. [provided by RefSeq, Jul 2016]

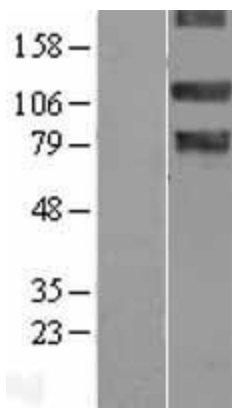
Product images:



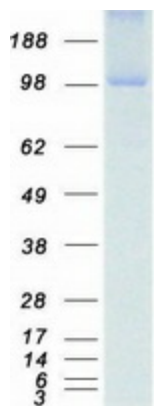
Circular map for RC211326



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NEK9 (Cat# RC211326, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NEK9(Cat# [TA503326]). Positive lysates [LY409721] (100ug) and [LC409721] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY409721]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211326 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NEK9 protein (Cat# [TP311326]). The protein was produced from HEK293T cells transfected with NEK9 cDNA clone (Cat# RC211326) using MegaTran 2.0 (Cat# [TT210002]).