

Product datasheet for **MR210111**

Nek8 (NM_080849) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nek8 (NM_080849) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nek8
Synonyms:	4632401F23Rik; b2b1449C; b2b1449Clo; jck
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210111 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGAAGTACGAGCGGATCCGAGTGGTGGGAAGAGGTGCCTTCGGATTGTGCACCTGTGCCTGCGAA
AGGCCGACCAGAAGCTGGTGATCCTCAAGCAGATCCCAGTGGAACAGATGACCAAAGAAGAGAGGCAGGC
GGCCAGAACGAGTGCCAGGTGCTCAAGCTGCTCAACCACCCCAACGTCATCGAGTACTATGAGAATTTTC
CTAGAGGACAAGGCCCTCATGATTGCTATGGAGTACGCACCAGGTGGCACCTTGGCCGAGTTCATCCAGA
AGCGCTGCAACTCTCTGCTAGAGGAGGAGACGATCCTTCACTTCTTTGTGCAGATCCTGTGGCTGTGCA
TCACGTGCATACACATCTCATCTGCATCGGGACCTCAAGACACAGAACATCCTTCTTGACAAACACCGC
ATGGTGGTCAAGATCGGTGACTTTGGCATCTCTAAGATCCTCAGCAGCAAGAGCAAGGCCTACACGGTGG
TGGGTACACCCTGCTACATCTCCCCTGAGCTGTGTGAGGGCAAACCTACAACCAGAAGAGTGACATCTG
GGCTCTGGGCTGTGCTTATATGAGCTGGCCAGCCTCAAGAGGGCCTTCGAGGCTGCAAACCTGCCAGCC
CTGGTGTGAAGATCATGAGTGGCACCTTCGCACCCATCTCTGACCGGTACAGCCCTGAGCTTCGCCAGC
TCGTCTGAGTCTGCTTAGCCTGGAACCTGCACAGAGGCCACCCCTCAGCCACATCATGGCGCAGCCCT
CTGCATCCGGGCCCTACTCAACATCCACACCGATGTGGGCAGCGTGCGCATGCGGAGGGCAGAGAAGTCC
CTGACCCAGGACCACCTATAGCCTCTGGCAGCACAGGGAGCAGGGCCACCAGTGCCCGATGTAGGGGTG
TCCCCGGGGACCTGTGAGACCGGCTATCCCACCGCCACTGTCTTCGGTCTACGCTTGGGGTGGTGGCCT
TAGCAGTCCCCTGAGGTTGCCAATGCTCAACACGGAGGTGGTCCAGGTAGCCGCTGGGCGCACGAGAAG
GCTGGCGTTACGCGCTCTGGACGCCTCATCCTGTGGGAGGCCCAACCCCTGGGAGCTGGAGGCGGCACAC
TCCTTCTGGAGCCGTGGAGCTGCCTCAGCCCCAGTTTGTCTCTCGTTTCTGGAAGCCAGTCAAGTGT
GACCATCAAGCATGTGGCCTGCGGGACCTGTTACCGCTTGTGACAGACCGAGGCATTATCATGACG
TTCGGCAGTGGCAGCAATGGGTGTTTAGGTACCGCAACCTGACTGACATCAGCCAGCCACCATTGTAG
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TGCCCTCAGCAGGTGCCTGTGGCCCAGGACAGGAAGCTCAGAGAGTTGTCTGTGGTATTGACTCTTCCA
TGATCCTCACCTCTCCAGGCAGGTCTGGCCTGTGGAAGTAACAGGTTCAACAAGCTAGGCTTGGACCA
CCTATCCCTGGACGAGGAGCCTGTTCCCTACCAGCAAGTGGAGGAGGCCCTGAGCTTACACCACCTGGC
TCTGCACCTCTGGACCAGGAGCCCTGTGTGTGGACCTTGGCACTGCTCATTAGCTGCTATCACTG
CTTCTGGGACTGCTATACTTTTGGCAGCAATCAACATGGACAGCTGGGCACCAGTTCGCCAGGGTCAG
CAGGGCACCCGTGCGGGTCCAAGGCCTGGAGGGCATCAAGATGGTGTGGTGGCCTGCGGGGATGCCTTC
ACTGTGGCCGTTGGGGCAGAGGGGAAGTGTATTCTTGGGGCAAAGGAACCCGAGGCCGACTGGGAAGGA
GGGATGAGGATGCGGGGCTGCCTAGGCCAGTGCAGCTGGATGAGACTCATCCTTACATGGTGACTTCAGT
GTCCTGCTGCCATGGGAACACTCTGCTGGCTGTTGATCAGTACAGATGAACCAGTTCACCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210111 protein sequence
Red=Cloning site Green=Tags(s)

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MEKYERIRVVGRGAFGIVHLCLRKADQKLVILKQIPVEQMTKEERQAAQNECQVLKLLNHPNVIEYYENF
LEDKALMIAMEYAPGGTAEFIQKRCNSLLEETILHFFVQILLALHHVHHTLILHRDLKTQNILLDKHR
MVKIGDFGISKILSSKSKAYTVVGTTPCYISPELCEGKPNQKSDI WALGCVLYELASLKRAFEANLPA
LVLKIMSGTFAPISDRYSPELRQLVLSLLSLEPAQRPPPLSHIMAQPLCIRALLNIHTDVGSVRMRAEKS
LTPGPPIASGSTGRATSARCRGVPRGPVPAIPPLSSVYAWGGGLSSPLRLPMLNTEVVQVAAGRTQK
AGVTRSGRLILWEAPPLGAGGGTLLPGAVELPQPQVSRFLEGQSGVTIKHVACDGLFTA CLTDRGIIMT
FGSGSNGCLGHGNTDISQPTIVEALLGYEMVQVACGASHVLALSTDGELFAWGRDGGRLGLGTRESHN
CPQQVPVAPGQEAQRVVCIDSSMILTSPGRVLCGSNRFNKLGLDHL SLDEEPVYQQVEEALSF TPLG
SAPLDQEPLLCVDLGT AHSAAITASGDCYTFGSNQHGQLGTSRRVSRAPCRVQGLEGIKMMVACGD AF
TVAVGAEGEVYSWGKGTRGRLGRRDEDAGLPRPVQLDETHPYMVT SVSCCHGNTLLAVRSVTDEPVPP
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_080849

ORF Size: 2097 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_080849.1](#), [NM_080849.2](#), [NM_080849.3](#), [NP_543125.1](#)

RefSeq Size: 2832 bp

RefSeq ORF: 2097 bp

Locus ID: 140859

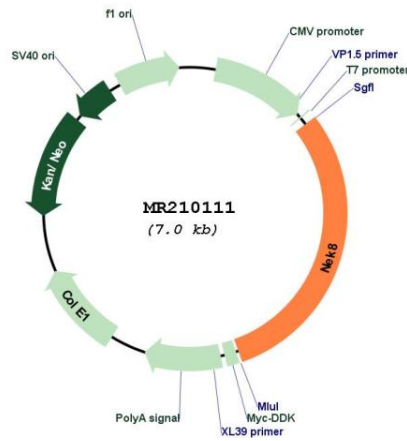
UniProt ID: [Q91ZR4](#)

Cytogenetics: 11 46.74 cM

MW: 75.3 kDa

Gene Summary: This gene encodes a NIMA-related kinase. Members of this serine/threonine protein kinase family are structurally-related to NIMA (never in mitosis, gene A) which controls mitotic signaling in *Aspergillus nidulans*. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR210111