

Product datasheet for **MG210111**

Nek8 (NM_080849) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nek8 (NM_080849) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nek8
Synonyms:	4632401F23Rik; b2b1449C; b2b1449Clo; jck
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210111 representing NM_080849
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAAGTACGAGCGGATCCGAGTGGTGGGAAGAGGTGCCTTCGGATTGTGCACCTGTGCCTGCGAA
 AGGCCGACCAGAAGCTGGTGATCCTCAAGCAGATCCCAGTGGAACAGATGACCAAAGAAGAGAGGCAGGC
 GGCCAGAACGAGTGCCAGGTGCTCAAGCTGCTCAACCACCCCAACGTCATCGAGTACTATGAGAATTTTC
 CTAGAGGACAAGGCCCTCATGATTGCTATGGAGTACGCACCAGGTGGCACCTTGGCCGAGTTCATCCAGA
 AGCGCTGCAACTCTCTGCTAGAGGAGGAGACGATCCTTCACTTCTTTGTGCAGATCCTGTGGCTGTGCA
 TCACGTGCATACACATCTCATCTGCATCGGGACCTCAAGACACAGAACATCCTTCTTGACAAACACCGC
 ATGGTGGTCAAGATCGGTGACTTTGGCATCTCTAAGATCCTCAGCAGCAAGAGCAAGGCCTACACGGTGG
 TGGGTACACCCTGCTACATCTCCCCTGAGCTGTGTGAGGGCAAACCTACAACCAGAAGAGTGACATCTG
 GGCTCTGGGCTGTGCTTATATGAGCTGGCCAGCCTCAAGAGGGCCTTCGAGGCTGCAAACCTGCCAGCC
 CTGGTGTGAAGATCATGAGTGGCACCTTCGCACCCATCTCTGACCGGTACAGCCCTGAGCTTCGCCAGC
 TCGTCCTGAGTCTGCTTAGCCTGGAACCTGCACAGAGGCCACCCCTCAGCCACATCATGGCGCAGCCCT
 CTGCATCCGGGCCCTACTCAACATCCACACCGATGTGGGCAGCGTGCGCATGCGGAGGGCAGAGAAGTCC
 CTGACCCAGGACCACCTATAGCCTCTGGCAGCACAGGGAGCAGGGCCACCAGTGCCCGATGTAGGGGTG
 TCCCCGGGGACCTGTGAGACCGGCTATCCCACCGCCACTGTCTTCGGTCTACGCTTGGGGTGGTGGCCT
 TAGCAGTCCCCTGAGGTTGCCAATGCTCAACACGGAGGTGGTCCAGGTAGCCGCTGGGCGCACGAGAAG
 GCTGGCGTTACGCGCTCTGGACGCTCATCCTGTGGGAGGCCCAACCCCTGGGAGCTGGAGCGGCACAC
 TCCTTCTGGAGCCGTGGAGCTGCCTCAGCCCCAGTTTGTCTCTCGTTTTCTGGAAGGCCAGTCAGGTGT
 GACCATCAAGCATGTGGCCTGCGGGACCTGTTACCGCTTGCTTGACAGACCGAGGCATTATCATGACG
 TTCGGCAGTGGCAGCAATGGGTGTTTAGGTCACGGCAACCTGACTGACATCAGCCAGCCACCATTGTAG
 AAGCCTTGCTGGGCTATGAGATGGTGCAGGTGGCCTGTGGGGCCTCTCATGTGCTGGCCCTGTCCACAGA
 TGGAGAGTTATTCGCCTGGGGCAGAGGAGATGGTGGTAGACTGGGACTAGGCACCAGGGAGTCCCATAAC
 TGCCCTCAGCAGGTGCCTGTGGCCCCAGGACAGGAAGCTCAGAGAGTTGTCTGTGGTATTGACTCTTCCA
 TGATCCTCACCTCTCCAGGCAGGTCTGGCCTGTGGAAGTAACAGGTTCAACAAGCTAGGCTTGGACCA
 CCTATCCCTGGACGAGGAGCCTGTTCCCTACCAGCAAGTGGAGGAGGCCCTGAGCTTACACCACCTGGGC
 TCTGCACCTCTGGACCAGGAGCCCTGTGTGTGTGGACCTTGGCACTGCTCATTAGCTGCTATCACTG
 CTTCTGGGGACTGCTATACTTTTGGCAGCAATCAACATGGACAGCTGGGCACCAGTTCGCCAGGGTCAG
 CAGGGCACCTGTGGGTCCAAGGCCTGGAGGGCATCAAGATGGTGTGGTGGCCTGCGGGGATGCCTTC
 ACTGTGGCCGTTGGGGCAGAGGGGGAAGTATTCTTGGGGCAAAGGAACCCGAGGCCGACTGGGAAGGA
 GGGATGAGGATGCGGGGCTGCCTAGGCCAGTGCAGCTGGATGAGACTCATCCTTACATGGTGACTTCAGT
 GTCCTGTGCCATGGGAACACTCTGCTGGCTGTTTCGATCAGTCACAGATGAACCAGTTCCTCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG210111 representing NM_080849
 Red=Cloning site Green=Tags(s)

MEKYERIRVVGRGAFGIVHLCLRKADQKLVILKQIPVEQMTKEERQAAQNECQVLKLLNHPNVEYYENF
 LEDKALMIAMEYAPGGTAEFIQKRCNSLLEETILHFFVQILLALHHVHHLILHRDLKTQNILLDKHR
 MVVKIGDFGISKILSSKSKAYTVVGTTPCYISPELCEGKPYNQKSDI WALGCVLYELASLKRAFEANLPA
 LVLKIMSGTFAPISDRYSPELRQLVLSLLSLEPAQRPPPLSHIMAQPLCIRALLNIHTDVGSVRMRRAEKS
 LTPGPPIASGSTGRATSARCRGVPRGPVPAIPPLSSVYAWGGGLSSPLRPLMLNTEVVQVAAGRTQK
 AGVTRSGRLILWEAPPLGAGGGTLLPGAVELPQPQVSRFLEGQSGVTIKHVACGDLFTA CLTDRGIIMT
 FGSGSNGCLGHGNLTDISQPTIVEALLGYEMVQVACGASHVLALSTDGELFAWGRDGGRLGLGTRESHN
 CPQQVPVAPGQEAQRVVCIDSSMILTSPGRVLACGSNRFNKLGLDHL SLDEEPVPYQQVEEALSF TPLG
 SAPLDQEPLL CVDLGT AHSAAITASGDCYTFGSNQHGQLGTSSRRVSRAPCRVQGLEGIKMMVMACGDAF
 TVAVGAEGEVYSWGKTRGRLGRRDEDAGLPRPVQLDETHPYMVT SVSCCHGNTLLAVRSVTDEPVPP

TRTRPLE - GFP Tag - V

Restriction Sites:

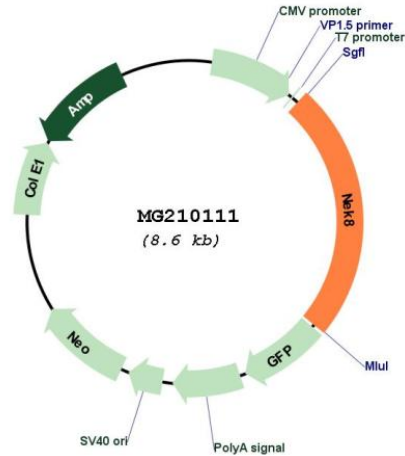
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_080849

ORF Size: 2094 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_080849.2](#), [NP_543125.1](#)

RefSeq Size: 2386 bp

RefSeq ORF: 2097 bp

Locus ID: 140859

UniProt ID: [Q91ZR4](#)

Cytogenetics: 11 46.74 cM

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]