

Product datasheet for **MG218615**

Nek3 (NM_001162947) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nek3 (NM_001162947) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nek3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218615 representing NM_001162947
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACAACACACAGTCTGAGAGTATTGGCCAGGGCTCCTTCGGCAGGGCTCTTTGGTTCTGCAGG
 AAAGCAGCAATCAGACATTTGCCATGAAGGAAATCAGACTGCTCAAGTCTGATACACAGACTTCTAGGAA
 AGAGGCTGTTCTGCTCGCAAAATGAAGCACCCCAATATTGTTGCCTTTAAGGAGTCATTTGAAGCTGAA
 GGGTACCTGTACATTGTGATGGAGTATTGTGACGGAGGGGATCTGATGCAGAGGATTAACAGCAAAAAG
 GGAAGTTATCCCTGAAGACACGATACTTAATTGGTTTATACAAATTTGTCTTGGAGTAAATCACATTCA
 TAAGAGACGTGTTTTACACAGAGATATCAAGTCGAAAAATGTCTTCTCACCCACAATGGAAAAGTGAAA
 TTGGGAGATTTGGCTCTGCCGCTTCTCTCCAGTCCCATGGCGTTTGCATGCACGTACGTGGGAACAC
 CTTATTATGTGCCTCCAGAAATCTGGGAGAACCTGCCTTACAACAATAAAAGTGACATCTGGTCTTGGG
 ATGCATTTCTGTATGAACCTCTGCGCTCTGAAGCATCCATTCAGGCAAATAGTTGGAAAAACCTGATCCTG
 AAAATATGCCAGGGGCCATCCACCCGCTGCCGGCTCTGTACTCTGCAAGCTTCAGGGCCTGGTCAAGC
 AGATGCTGAAAAGGAACCTTCCCACCGCCCTCCGCCACAACCTGCTCTGCAGGGGTAGCTTGGCTCC
 ACTGGTCCCGAAGTGCTTGGCCCTCAGATCATCAGAGAAATGGAGAACAGATATTAGATGAAATCAAA
 ATATCCACGCCTAAGAATATGAAAAACAGGACTCCAACAGAGTCAGGAGAGCTCTGGGAGAAGCAAAC
 CTGCCTCTATGCAAGAGGAAGAAGCTGGTAGAAAGTGTAGCCATACTGAATTGAAAAGCACTGGTACAAC
 CCCAGCTGGGAATGCATTGGAAGAGCAGCCAGAGGAAATCCAGAATCAGGTAACCCACAGGAGCACGGG
 AGGCATACCAGTCCGGCAAGTCTCACAGGCCGTGGTGGGAGAGACACGGTCCCAGTCCAATGTGGAAG
 CTTTGGAGAAAGCATCTATCCTTACCTCCAGTTTCACGGCAGAGGATGACAGAGGTGGTGTGATAAA
 GTATGAAGAAAAATGCCCGAAGGCAGTGGGTGAGAGAGCCCTGAGGCCTTGTGTCAATGCTGAAGGAC
 GCTGATCTCAGTCAGGCATTTACAGACATACACAATATATAGACCAGGTGCAGAAGGATTCCTGAAAAGGTC
 CCCTTTCTGAAGACACGGCATCGGACAGCGTCGACGGTATCTCGATTCTGTGATTTAGACCCAGAGAG
 ATTTGAACCTCGGCTGGATGAAGAAGACACGGACTTTGAGGAAGATAACGAAAACCTGATTGGGTGTCA
 GAACTAAAGAAGCACGTAGGATACGGGGATGGACCTGGTGGACAACCTCTCGGAGAACGTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218615 representing NM_001162947
 Red=Cloning site Green=Tags(s)

MDNYTVLRVIGQGSFGRALLVLQESSNQTFAMKEIRLLKSDTQTSRKEAVLLAKMKHPNIVAFKESFEAE
 GYLYIVMEYCDGGDLMRIKQKGLFPEDTILNWFIIQICLVNHIHKRRVLHRDIKSNVFLTHNGKVK
 LGDFGSARLLSSPMAFACTYVGTPIYYVPEIWIENLPYNNKSDIWSLGCILYELCALKHPFQANSWKNLIL
 KICQGIHPLPALYSCKLQGLVKQMLKRNP SHRPSATLLCRGSLAPLVPKCLPPQIIREYGEQILDEIK
 ISTPKNMKKQDSNRVRRALGEANSASMQEERGRKCSHTELESTGTTPAGNALERAARGNPESGNPQEHG
 RHTSPASPHRPWVERHGPSSNVEALEKASILTSSFTAEDDRGGSVIKYEENARRQWVREPPEALLSMLKD
 ADLSQAFQTYTIYRPGAEGFLKGPLSEDTASDSVDGDLDSVMLDPERFEPRLDEEDTDFEEDNENPDWVS
 ELKKHVGVDGPGGQLLGERA

TRTRPLE - GFP Tag - V

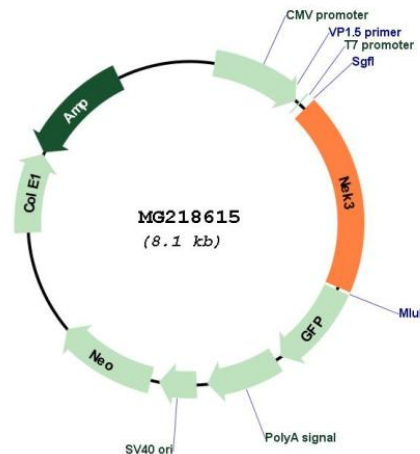
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001162947

ORF Size: 1533 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_001162947.1](#), [NP_001156419.1](#)

RefSeq Size: 1989 bp

RefSeq ORF: 1536 bp

Locus ID: 23954

UniProt ID: [Q9R0A5](#)

Cytogenetics: 8 11.07 cM

Gene Summary: Protein kinase which influences neuronal morphogenesis and polarity through effects on microtubules. Regulates microtubule acetylation in neurons. Contributes to prolactin-mediated phosphorylation of PXN and VAV2.[UniProtKB/Swiss-Prot Function]