

Product datasheet for **MG208192**

Nek3 (NM_011848) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nek3 (NM_011848) 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:

>MG208192 representing NM_011848
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACAACACACAGTCTGAGAGTATTGGCCAGGGCTCCTTCGGCAGGGCTCTTTGGTTCTGCAGG
 AAAGCAGCAATCAGACATTTGCCATGAAGGAAATCAGACTGCTCAAGTCTGATACACAGACTTCTAGGAA
 AGAGGCTGTTCTGCTCGCAAAATGAAGCACCCCAATATTGTTGCCTTTAAGGAGTCATTTGAAGCTGAA
 GGGTACCTGTACATTGTGATGGAGTATTGTGACGGAGGGGATCTGATGCAGAGGATTAACAGCAAAAAG
 GGAAGTTATCCCGAAGACACGATACTTAATTGGTTTATACAAATTTGTCTTGGAGTAAATCACATTCA
 TAAGAGACGTGTTTTACACAGAGATATCAAGTCGAAAAATGTCTTCTCACCCACAATGGAAAAGTGAAA
 TTGGGAGATTTGGCTCTGCCGCTTCTCTCCAGTCCCATGGCATTTCATGCACGTACGTGGGGACAC
 CTTATTATGTGCCTCCAGAAATCTGGGAGAACCCTTACAACAATAAAAGTGACATCTGGTCTTGGG
 ATGCATTTCTGATGAACCTGCGCTCTGAAGCATCCATTCAGGCAAATAGTTGGAAAAACCTGATCCTG
 AAAATATGCCAGGGGCCATCCACCCGCTGCCGGCTCTATACTCCTGCAAGCTTCAGGACCTGGTCAAGC
 AGATGCTGAAAAGGAACCTTCGCACCGCCCTCCGTCAACCCCTGCTCTGCAGGGGTAGCTTGGCTCC
 ATTGGTCTGAAGTGCTTGGCCCTCAGATCATCAGAGAAATGGAGAACAGATATTAGATGAAATCAAA
 ATATCCACGCCTAAGAATATGAAAAACAGGACTCCAACAGAGTCGGGAGAGCTCTGGGAGAAGCAAACT
 CTGCCTCTATGCAAGAGGAAGAAGCTGGTAGAAAGTGTAGCCACTGAATTGAAAAGCACTGGTACAAC
 CCCAGCTGGGAATGCATTGGGAAGAGCAGCCAGAGGAAATCCAGGTAACCCACAGGAGCAGGGAGGCAT
 ACCAGTCCGGCAAGTCTCACAGGCCCGGTGGGAGAGACACGGTCCCAGTTCGAATGTCGAAGCTTTGG
 AGAAAGCATCCATCCTTACCTCCAGTTTACGGCAGAGGATGACAGAGGTGGGTCTGTGATAAAGTATGA
 AGAAAATGCCCGAAGGCAGTGGGTGAGAGAGCCCTGAGGCCTTGTGTCAATGCTGAAGGACGCTGAT
 CTCAGTACGGCATTTCAAACATACACAATATAGACCAGGTGCAGAAGGATTCTGAAAAGTCCCTTT
 CTGAAGACACGGCATCGACAGCGTCGACGGTGTCTCGATTCTGTGATGTTAGACCCAGAGAGATTTGA
 ACCTCGGCTGGATGAAGAAGACACGGACTTTGAGGAAGATAACGAAAACCTGATTGGCTGTCAAGACTA
 AAGAAGCAGTAGGATACGGGGATGGACCTGGTGGACAACCTCTCGGAGAATGTGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208192 representing NM_011848
 Red=Cloning site Green=Tags(s)

MDNYTVLRVIGQGSFGRALLVLQESSNQTFAMKEIRLLKSDTQTSRKEAVLLAKMKHPNIVAFKESFEAE
 GYLYIVMEYCDGGDLMRIKQKQKGLFPEDTILNWFIIQICLVNHIHKRRVLRHRDIKSKNVFLTHNGKVK
 LGDFGSARLLSSPMAFACTYVGTPIYVPEIWIENLPYNNKSDIWSLGCILYELCALKHPFQANSWKNLIL
 KICQGIHPLPALYSCKLQDLVKQMLKRNPSHRPSVTTLLCRGSLAPLVKCLPPQIIREYGEQILDEIK
 ISTPKNMKKQDSNRVGRALGEANSASMQEERGRKCSHTELESTGTTAGNALGRAARGNPNPQEHGRH
 TSPASPHRPRWERHGPSSNVEALEKASILTSSFTAEDDRGGSVIKYEENARRQWVREPPEALLSMLKDAD
 LSQAFQTYTIYRPGAEGFLKGPLSEDTASDSVDGLDSVMLDPERFEPRLDEEDTDFEEDNENPDWLSEL
 KKHVGYGDGPGGQLLGECA

TRTRPLE – GFP Tag – V

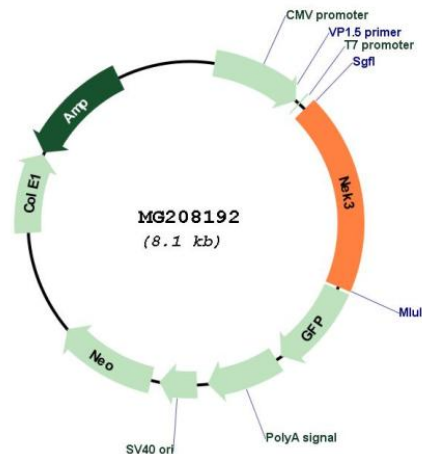
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_011848

ORF Size: 1527 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_011848.1](#), [NP_035978.1](#)

RefSeq Size: 2025 bp

RefSeq ORF: 1530 bp

Locus ID: 23954

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]