

## Product datasheet for **MG218193**

### **Nek11 (NM\_172461) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nek11 (NM_172461) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nek11
Synonyms:	4932416N14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG218193 representing NM\_172461  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGAAATCCAAGAGACTGCTAAGTATGTGGCGGAAGACCCACAGTCATCCCCATGTACCCGACCG  
 CTTTGATTGCAAGAAGATATGTTCTTCAGCAGAACTTGGCAGTGGAAAGTTTGGAACTGTCTATCTGGT  
 GTCAGACAAGAAAGCCAAACCTGGAGAGGAGCTAAAGGTACTGAAGGAAATCTCTGTTGGCGAATTAAT  
 CCAAATGAGACCGTGCAGGCCAATGTGGAAGCTCAGCTCCTCTCCAGGCTCCATCATCTGCCATTGTCA  
 GATTCCATGCAAGCTTTCATGGAGCAGGAGACTTTTGCATTATCACGGAATACTGTGAGGGCCGAGATCT  
 GGACTATAGAATCCAGGAATATAAAGAAGCTGGGAAAGTCTTCGCTGAAAATCAGATAGTAGAATGGTTT  
 ATCCAGCTGTTGCTTGGAGTTGACTACATGCATGAGAGGAGAATACTTCATCGAGACTTGAAATCAAAGA  
 ATATATTTCTGAAAAATAATCTACTCAAATCGGGGATTTGGAGTTTCTCGGCTGCTAATGGGTTTCATG  
 TGAGCTGGCTACAACCTAACCCGGACCCCATATATGAGTCTGAGGCCCTGAAGCACCAAGGCTAT  
 GATGCCAAGTCTGACATCTGGTCACTGGCGTGCATTTTATATGAGATGTGTTGCCTGGATCATGCATTTG  
 CTGGCTCCAGTTTCTGTCTGTGTTTTGAATATTGTTGAAGGTAACACACCTTCACTCCCGGACAGATA  
 TCCACGAGAACTAAACACCATCATGGAACGCATGTTGAACAAGAGTCTTTCATTGAGACCGTCCGGCTGCA  
 GACATTTTAAAGCCCTTACATGGAAGAGCAGCTTCAGCTCCTGATGTGTAATACCCAGAGATGACAC  
 TGGAAGACAAGAACTCAGTTTGTGAGAAGGAGGCTGCTCATAACGATTAATGCCGTGCAGAAAAAGCTTCA  
 CCTGCAGACTCTGCAAGCCTTGTCTGACACACAGAAAACGACTCCAGAGAACGGATGCGGCTGAGGAAG  
 CTGCAGGCAGCCGATGAGAGAGCAAGGAGGCTGAAAAAGATTGCTGAAGAAAACATAAAGAAAAAGACA  
 AAAGGATGCAGGCCCTGAGATCCAGAATGTGGGGTCTGTGCATGCCCATGTGCTCCATGAACATGACTGA  
 ACGGACTTTGGAGAGCCTGCCTGAGCCTCAGTCCCTTCGGTGCCTGGACCTCGATGAACCTTGAGCCCACT  
 TTAGAGGACACCATTTGTTGACCTCGACATTATGAGATCCAGAAGACCCACTTGTGCTGAACAATATT  
 ATTCCGATGTCTTTGATTCTGTCTGAAGACAGCGAGGAGCAGGAGGAAGAAATGATATTCTCAGAAGC  
 AGGGGGAGACACGAAAGAGGAGGAATCCCATCTGTGTACAGAACAACCAACAGGACAGTGATACTGCC  
 GCGCTGGTTGGGTGTTTGAACATGTCTGGGTTACACCTCTCTAGACACAAAGACTATTACCAATGCAG  
 TGACAGACATGTCTCCTGGACCAATGGTTTTCAACAGTGCAGTGGCTCGGACCAAGATGAAGCGCATGAA  
 GGAATCAGCTGTACAGAAGCTAGGAATGGAACGTTTGGAGAGGCTACGAGTACCTCAAGAGAGCAAGG  
 CACCAGAAATGCCAGAGAAGCAGAGATCTGGGAGCATCTGGAGACGGTGGTTCTCCGGCCAGTGACTGCT  
 TTGAAGTTGACCAGCTCCTCTATTTTGGAGAGTTGCTGCTGACCATGGAAGGAAAAGAGCCCTCTCTCCA  
 GAACCTGCACTGTGAAGCTGTCCAGAAGAAGCCGGTCAAGGGCACACATTTCTGTGACAATCCA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG218193 representing NM\_172461  
 Red=Cloning site Green=Tags(s)

MLKFQETAKYVGGRPVTPVIMYPTALIARRYVLQQLKLGSGSFGTVYLVSDKKAKPGEELKVLKEISVGELN  
 PNETVQANVEAQLLSRLHHPAIVRFHASFMEQETFCIITEYCEGRDLDYRIQEYKEAGKVFENQIVEWF  
 IQLLLGVGYMHERRILHRDLKSKNIFLKNLLKIGDFGVSRLLMGSCELATLTGTPHYMSPEALKHQGY  
 DAKSDIWSLACILYEMCCLDHAFAGSSFLSVVLNIVEGNTPSLPDRYPRELNTIMERMLNKSPSLRPSAA  
 DILKAPYMEEQLQLLMCKYPEMTLEDKNSVCQKEAAHTINAVQKLLHLQLLQALSDTQKTPRERMRLRK  
 LQAADERARRLKKIAEENYKENDKRMQALRSQNVGSVHAHVLHELDERTLESLEPEPQSLPCLDLDELEPS  
 LEDTIVDLGHYEIPEDPLVAEQYYSDVDFDSCSEDESEEQEEMIFSEAGGDTKEEESPSVYRTNQQSDTA  
 ALVGCLEHVLGYTSLDTKITNAVTDMSGPMVFN SAVARTKMKRMKESAVQKLGMETFEEVYELKRAR  
 HQNAREAEIWEHLETVPVPRASDCFEVDQLLYFEELLLTMEGKEPSLQNLHCEAVQKPKVKGFTHFCNDP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_172461.3</a> , <a href="#">NP_766049.2</a>
<b>RefSeq Size:</b>	2625 bp
<b>RefSeq ORF:</b>	1887 bp
<b>Locus ID:</b>	208583
<b>UniProt ID:</b>	<a href="#">Q8C0Q4</a>
<b>Cytogenetics:</b>	9 F1
<b>Gene Summary:</b>	Protein kinase which plays an important role in the G2/M checkpoint response to DNA damage. Controls degradation of CDC25A by directly phosphorylating it on residues whose phosphorylation is required for BTRC-mediated polyubiquitination and degradation. [UniProtKB/Swiss-Prot Function]