

## Product datasheet for **RG223695**

### NEK11 (NM\_145910) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NEK11 (NM_145910) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NEK11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG223695 representing NM\_145910  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGAAATCCAAGAGGCAGCTAAGTGTGTGAGTGGATCAACAGCCATTTCCACTTATCCAAAGACCT  
 TGATTGCAAGAAGATACGTGCTTCAACAAAACTTGGCAGTGGAAGTTTTGGAACGTCTATCTGGTTTC  
 AGACAAGAAAGCCAAACGAGGAGAGGAATTAAGTACTTAAGGAAATATCTGTTGGAGAACTAAATCCA  
 AATGAACTGTACAGGCCAATTTGGAAGCCCACTCCTCTCCAAGCTGGACCACCCAGCCATTGTCAAGT  
 TCCATGCAAGTTTTGTGGAGCAAGATAATTTCTGCATTATCACGGAGTACTGTGAGGGCCGAGATCTGGA  
 CGATAAAATTCAGGAATATAACAAGCTGGAAAAATCTTCCAGAAAATCAAATAATAGAATGGTTTATC  
 CAGCTGCTGCTGGGAGTTGACTACATGCATGAGAGGAGGATACTTCATCGAGACTTAAAGTCAAAGAAATG  
 TATTTCTGAAAAATAATCTCCTTAAAATGGAGATTTTGGAGTTTCTCGACTTCTAATGGGATCCTGTGA  
 CCTGGCCACAACTTAACTGGAACCTCCCATTATATGAGTCCTGAGGCTCTGAAACACCAAGGCTATGAC  
 ACAAGTCGGACATCTGGTCACTGGCATGCATTTTGTATGAGATGTGCTGCATGAATCATGCATTGCTG  
 GCTCCAATTTCTTATCCATTGTTTTAAAAATTGTTGAAGGTGACACACCTTCTCTCCCTGAGAGATATCC  
 AAAAGAACTAAATGCCATCATGGAAGCATGTTGAACAAGAATCCTTCATTAAGACCATCTGCTATCGAA  
 ATTTTAAAAATCCCTTACCTTGATGAGCAGCTACAGAACCTAATGTGTAGATATTCAGAAATGACTCTGG  
 AAGACAAAAATTTGGATTGTGAGAAGGAGGCTGCTCATATAATTAATGCCATGCAAAAAAGGATCCACCT  
 GCAGACTCTGAGGGCACTGTGAGAAGTACAGAAAATGACGCCAAGAGAAAGGATGCGGCTGAGGAAGCTC  
 CAGGCGGCTGATGAGAAAGCCAGGAAGCTGAAAAAGATTGTGGAAGAAAAATATGAAGAAAATAGCAAAC  
 GAATGCAAGAATTGAGATCTCGGAACCTTTCAGCAGCTGAGTGTGATGTACTCCATGAAAAAACACATTT  
 AAAAGGAATGGAAGAAAAGGAGGAGCAACCTGAGGGAAGACTTTTCTTGTTCACCCAGGACGAGGATGAA  
 GAGAGGTGGCAAGGCAGGGAAGGAATCTGATGAACCAACTTTAGAGAACCTGCCTGAGTCTCAGCCTA  
 TTCCTTCCATGGACCTCCACGAACCTGAATCAATTGTAGAGGATGCCACATCTGACCTTGGATACCATGC  
 AACTCACAGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG223695 representing NM\_145910  
 Red=Cloning site Green=Tags(s)

MLKFQEAACVSGSTAISTYPKTLIARRYVLQQKLGSGSFGTVYLVSDKKAKRGEELKVLKEISVGEINP  
 NETVQANLEAQLLSKLDHPAIVKHFHASFVEQDNFCIITEYCEGRDLDDKIQEYKQAGKIFPENQIIIEWFI  
 QLLLGVDMYHERRILHRDLKSKNVFLKNNLLKIGDFGVSRLLMGSCDLATTLTGTPHYMSPEALKHQGYD  
 TKSDIWSLACILYEMCCMNHAFAGSNFLSIVLKIIVEGDTPLPERYPKELNAIMESMLNKNPSLRPSAIE  
 ILKIPYLDEQLQNLRCRYSEMTLEDKNLDCQKEAAHIINAMQKRIHLQTLRALSEVQKMTPRERMRLRKL  
 QAADEKARKLKKIVEEKYEENSKRMQELRSRNFQQLSVDVLHEKTHLKGMEEEKEEQPEGRLSCSPQDEDE  
 ERWQGREESDEPTLENLPESQPIPSMDLHELESIVEDATSDLGYHATHS

**TRTRPLE** - GFP Tag - V

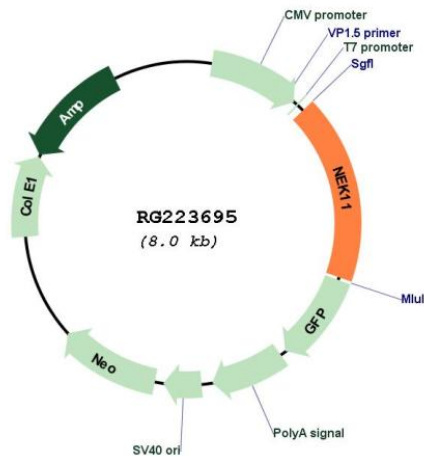
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_145910

ORF Size: 1410 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).

<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_145910.4</a>
<b>RefSeq Size:</b>	2080 bp
<b>RefSeq ORF:</b>	1413 bp
<b>Locus ID:</b>	79858
<b>UniProt ID:</b>	<a href="#">Q8NG66</a>
<b>Cytogenetics:</b>	3q22.1
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	This gene encodes a member of the never in mitosis gene A family of kinases. The encoded protein localizes to the nucleoli, and may function with NEK2A in the S-phase checkpoint. The encoded protein appears to play roles in DNA replication and response to genotoxic stress. Alternatively spliced transcript variants have been described.[provided by RefSeq, Mar 2009]