

## Product datasheet for **RG211326**

### NEK9 (NM\_033116) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NEK9 (NM_033116) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NEK9
Synonyms:	APUG; LCCS10; NC; NERCC; NERCC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG211326 representing NM\_033116  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGGTGCTGGGCGAGTACGAGCGCACTGCGATTCCATCAACTCGGACTTTGGGAGCGAGTCCGGGG  
 GTTGCGGGGACTCGAGTCCGGGGCTAGCGCCAGTCAGGGGCCGCGAGCCGGCGGGCGCGGGAGCA  
 GGAGAACTGCACTACATCCCCATCCGCGTCTGGGCCGCGGCGCCTTCGGGGAAGCCACGCTGTACCGC  
 CGCACCGAGGATGACTACTGGTGTGTGGAAGGAAGTCGATTTGACCCGGCTGTCTGAGAAGGAACGTC  
 GTGATGCCTTGAATGAGATAGTTATTCTGGCACTGCTGCAGCAGACAACATTATTGCTACTACAATCA  
 CTTTCATGGACAATACCACGCTGCTGATTGAGCTGGAATATTGTAATGGAGGGAACCTGTATGACAAAATC  
 CTTTCGTCAGAAGGACAAGTTGTTTGAGGAAGAGATGGTGGTGTGGTACCTATTTTCAGATTGTTTCAGCAG  
 TGAGCTGCATCCATAAAGCTGGAATCCTTCATAGAGATAAAAGACATTAATATTTTTCTGACCAAGGC  
 AAACCTGATAAACTTGGAGATTATGGCCTAGCAAAGAACTTAATTCTGAGTATCCATGGCTGAGACG  
 CTTGTGGGAACCCATATTACATGTCTCCAGAGCTCTGTCAAGGAGTAAAGTACAATTTCAAGTCTGATA  
 TCTGGGCAGTTGGCTGCGTCATTTTTGAACTGCTTACCTTAAAGAGGACGTTTGTATGCTACAAAACCCACT  
 TAACCTGTGTGGAAGATCGTGCAAGGAATTCGGGCCATGGAAGTTGACTCTAGCCAGTACTCTTTGGAA  
 TTGATCCAAATGGTTCAATTCGTGCCCTTGACCAGGATCCTGAGCAGAGACCTACTGCAGATGAACCTCTAG  
 ATCGCCCTCTTCTCAGGAAACGCAGGAGAGAGATGGAGGAAAAAGTCACTCTGCTTAATGCACCTACAAA  
 GAGACCAAGTCAAGCACTGTGACTGAAGCACCATTGCTGTAGTAACATCACGAACAGTGAAGTCTAT  
 GTTTGGGGTGGTGGAAAAATCCACCCCCAGAACTGGATGTTATCAAGAGTGGCTGTAGTCCCGGCAGG  
 TCTGTGCAGGGAATACCCACTTTGCTGTGGTACAGTGGAGAAGGAACTGTACACTTGGTGAACATGCA  
 AGGAGGCACTAACTCCATGGTCAGCTGGGCCATGGAGACAAGCCTCCTATCGACAGCCAAAGCATGTG  
 GAAAAGTTGCAAGGCAAAGCTATCCGTCAGGTGTATGTGGTGTGATTTCACTGTCTGTGTGACTGATG  
 AGGGTCAGCTCTATGCCTTCGGATCAGATTATTATGGCTGCATGGGGGTGGACAAAGTTGCTGGCCCTGA  
 AGTGCTAGAACCATGCAGCTGAACCTTCTCTCAGCAATCCAGTGGAGCAGGTCTCCTGTGGAGATAAT  
 CATGTGGTGGTCTGACACGAAACAAGGAAGTCTATTCTTGGGGCTGTGGCGAATATGGACGACTGGGT  
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 TTCAATAAGCTGGTCTGAATCAGTGCATGTCCGGAATTATCAACCATGAAGCATACCATGAAGTCCCT  
 ACACAAGTCTTTACCTTGGCCAAACAGTTGTCCTTTTATAAGATCCGTACCATTGCCCCAGGCAAGAC  
 TCACACAGCTGCTATTGATGAGCGAGGCCGGCTGCTGACCTTTGGCTGCAACAAGTGTGGGCAGCTGGGC  
 GTTGGAACTACAAGAAGCGTCTGGGAATCAACCTGTTGGGGGGACCCCTTGGTGGGAAGCAAGTATCA  
 GGGTCTCCTGCGGTGATGAGTTTACCATTGCTGCCACTGATGATAATCACATTTTTGCTGGGGCAATGG  
 TGGTAATGGCCGCTGGCAATGACCCCCACAGAGACCACATGGCTCTGATATCTGTACCTCATGGCCT  
 CGGCCTATTTTTGGATCTCTGCATCATGTCCCGGACCTGTCTTGGCGTGGATGGCATAACCATCTCATCG  
 TTGAGAAAATTTGAATTTAAGACCATCCGTTCCAATAGCAGTGGCTTATCCATTGGAAGTGTGTTTCA  
 GAGCTTAGCCCCGGGAGGAGCGCGGGGGCGGCGGTGGTGAAGAAGAGGACAGTCAGCAGGAATCGAA  
 ACTCCTGACCCAAGTGGAGGCTTCCGAGGAACAATGGAAGCAGACCGAGGAATGGAAGGTTAATCAGTC  
 CCACAGAGGCCATGGGAAACAGTAATGGGGCCAGCAGCTCCTGTCTGGCTGGCTTCCGAAAGGAGCTGGA  
 AAATGCAGAATTTATCCCATGCCTGACAGCCATCTCCTCTCAGTGCAGCGTTTTGAGAACTCTGAGAAA  
 GATACCTGCCCTATGAAGAGCTGCAAGGACTCAAAGTGGCCTCTGAAGCTCCTTTGGAACACAAACCCC  
 AAGTAGAAGCCTCGTACCTCGGCTGAATCCTGCAGTAACCTGTGCTGGGAGGGAAACCACTGACTCC  
 TCCTGCGTGTGCGTGCAGCTCTCTGCAGGTGGAGGTTGAGAGATTGCAGGGTCTGGTGTAAAGTGTCTG  
 GCTGAACAACAGAAGCTACAGCAAGAAAACCTCCAGATTTTTACCAACTGCAGAAGTTGAACAAGAAAT  
 TAGAAGGAGGGCAGCAGGTGGGATGCATTCAAAGGAACTCAGACAGCAAAGGAAGAGATGGAAATGGA  
 TCAAAGCCTGACTTAGATTAGATTCTGGTGCCTCCTGGGAACAGACTCCTGTAGACCCAGCCTC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**

Protein Sequence: >RG211326 representing NM\_033116  
 Red=Cloning site Green=Tags(s)

MSVLGEYERHCDSINSDFGSESGGCGDSSPGPSASQGPRAAGGAAEQEELHYIPIRVLGRGAFGEATLYR  
 RTEDDSL VVWKEVDLTRLSEKERRDALNEIVILALLQHDNIIAYYNHMDNTLLIELEYCNGNLYDKI  
 LRQKDKLFEEMVVWYLFQIVSAVSCIHKAGILHRDIKTLNIFLTKANLIKLDYGLAKKLNSEYSMAET  
 LVGTPIYMSPELCOGVKYNFKSDIWAAGCVIFELLTLKRTFDATNPLNLCVKIVQIRAMEVDSSQYSLE  
 LIQMVHSCLDQDPEQRPTADELLDRPLLKRRRREMEKVTLLNAPTKRPRSSTVTEAPIAVVTSRTSEVY  
 VWGGGKSTPQKLDVIKSGCSARQVCAGNTHFAVVTVEKELYTWVNMQGGTKLHGQLGHGDKASYRQPKHV  
 EKLQGKAIRQVSCGDDFTVCVTDEGQLYAFGSDYYGCMGVKAVGPEVLEPMLNFFLSNPVEQVSCGDN  
 HVVVLTRNKEVYSWGCGEYGRGLDSEEDYYTPQKVDVPKALIIIVAVQCGCDGTFLLTQSGKVLACGLNE  
 FNKLGLNQCMGSIINHEAYHEVPYTTSTLAKQLSFYKIRTIAPGKTHTAAIDERGRLLTFGCNKCGQLG  
 VGNYYKRLGINLLGGPLGGKQVIRVSCGDEFTIAATDDNHIFAWGNGNGRRLAMPTERPHGSDICTSWP  
 RPIFGSLHHVPLSCRGWHTILIVEKVLNSKTIKRSNSSL SIGTVFQSSSPGGGGGGGGEEEDSQESE  
 TPDPSSGFRGTMEADRGMEGLISPTTEAMGNSNGASSSCPGLRKELENAEFIPMPDPSPLSAAFSESEK  
 DTLPYEELQGLKVASEAPLEHKPQVEASSPRLNPAVTCAGKGTPLTPACACSSLQVEVERLQGLVVKCL  
 AEQQLQQENLQIFTQLQKLNKLEGGQVGMHSGKTQTAKHEMEMDPKPDLDSDSWCLLGTDCRPSL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

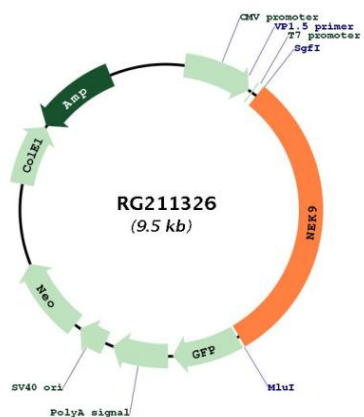


ACCN: NM\_033116

ORF Size: 2937 bp

<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_033116.3</a> , <a href="#">NP_149107.3</a>
<b>RefSeq Size:</b>	3244 bp
<b>RefSeq ORF:</b>	2940 bp
<b>Locus ID:</b>	91754
<b>UniProt ID:</b>	<a href="#">Q8TD19</a>
<b>Cytogenetics:</b>	14q24.3
<b>Domains:</b>	RCC1, pkinase, TyrKc, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	This gene encodes a member of the NimA (never in mitosis A) family of serine/threonine protein kinases. The encoded protein is activated in mitosis and, in turn, activates other family members during mitosis. This protein also mediates cellular processes that are essential for interphase progression. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG211326