

Product datasheet for **RG227083**

NEK6 (NM_001145001) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NEK6 (NM_001145001) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NEK6
Synonyms: SID6-1512
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG227083 representing NM_001145001
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCAGGAGAGAAGTTTGTGGGAGGCAGCTCATTTCCGGCAGGAGGAGCAGAGCCTGCCAAGGCCTC
 GAGTTCGTGCCCTCGTGAGGCTGGCATGCAGGATGGCAGGACAGCCGGCCACATGCCCCATGGAGGGAG
 TTCCAACAACCTCTGCCACACCCTGGGGCCTGTGCATCCTCTGACCCACAGAGGCATCCAACACGCTG
 TCTTTTCGCTGCTCGCTGGCGGACTTCCAGATCGAAAAGAAGATAGGCCGAGGACAGTTCAGCGAGGTGT
 ACAAGGCCACCTGCCTGTGGACAGGAAGACAGTGGCTCTGAAGAAGGTGCAGATCTTTGAGATGATGGA
 CGCCAAGGCGAGGAGGACTGTGTCAAGGAGATCGGCCTTTGAAGCAACTGAACCACCCAAATATCATC
 AAGTATTTGGACTCGTTTATCGAAGACAACGAGCTGAACATTGTGCTGGAGTTGGCTGACGACGGGACC
 TCTCGCAGATGATCAAGTACTTTAAGAAGCAGAAGCGGCTCATCCGGAGAGGACAGTATGGAAGTACTT
 TGTGCAGCTGTGCAGCGCCGTGGAGCACATGCATTACGCGGGGTGATGCACCGAGACATCAAGCCTGCC
 AACGTGTTATCACAGCCACGGCGTGTGAAGCTCGGTGACCTTGGTCTGGGCCGCTTCTTCAGCTCTG
 AGACCACCGCAGCCCACTCCCTAGTGGGGACGCCCTACTACATGTACCCGAGAGGATCCATGAGAACGG
 CTACAACCTCAAGTCCGACATCTGGTCCCTGGGCTGTCTGCTGTACGAGATGGCAGCCCTCCAGAGCCCC
 TTCTATGGAGATAAGATGAATCTTCTCCCTGTGCCAGAAGATCGAGCAGTGTGACTACCCCACTCC
 CCGGGGAGCACTACTCCGAGAAGTTACGAGAAGTGGTCAGCATGTGCATCTGCCCTGACCCCAACAGAG
 ACCTGACATCGGATACGTGCACCAGGTGGCCAAGCAGATGCACATCTGGATGTCCAGCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227083 representing NM_001145001
Red=Cloning site Green=Tags(s)

MPREVCWEAAHFRQEEQSLPRPRVRLVRLACRMAGQPQHMPHGSSNNLCHTLGPVHPPDPQRHPNTL
 SFRCSLADFQIEKKIGRGQFSEVYKATCLLDRKTVALKKVQIFEMMDAKARQDCVKEIGLLKQLNHPNII
 KYLDSFIEDNELNIVLELADAGDLSQMIKYFKKQKRLIPERTVWKYFVQLCSAVEHMHSSRRVMHRDIKPA
 NVFITATGVVVLGDLGLGRFFSSETTAAHSLVGTPTYMSPERIHENGYNFKSDIWSLGCLLYEMAALQSP
 FYGDKMNLFLSCQKIEQCDYPLPLPEHYSEKLRELVSMCICDPHQRPDIQYVHVQAKQMHIWMSST

TRTRPLE - GFP Tag - V

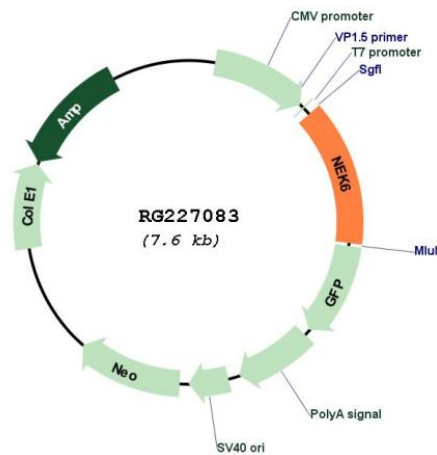
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001145001

ORF Size: 1041 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_001145001.2, NP_001138473.1</p>
RefSeq Size:	<p>2772 bp</p>
RefSeq ORF:	<p>1044 bp</p>
Locus ID:	<p>10783</p>
UniProt ID:	<p>Q9HC98</p>
Cytogenetics:	<p>9q33.3</p>
Protein Families:	<p>Druggable Genome, Protein Kinase</p>
Gene Summary:	<p>The protein encoded by this gene is a kinase required for progression through the metaphase portion of mitosis. Inhibition of the encoded protein can lead to apoptosis. This protein also can enhance tumorigenesis by suppressing tumor cell senescence. Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]</p>