

Product datasheet for **RG228269**

NEK6 (NM_001166169) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NEK6 (NM_001166169) 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: >RG228269 representing NM_001166169
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGCCACTGGATGGGATTCTAGATGCTCGCCTGGGACCCAGGTTCTGTCGCCCTCGTGAGGCTGGCAT
 GCAGGATGGCAGGACAGCCCGCCACATGCCCATGGAGGGAGTTCCAACAACCTCTGCCACACCCTGGG
 GCCTGTGCATCCTCCTGACCCACAGAGGCATCCAACACGCTGTCTTTTCGCTGCTCGTGGCGGACTTC
 CAGATCGAAAAGAAGATAGGCCGAGGACAGTTCAGCGAGGTGTACAAGGCCACCTGCCTGCTGGACAGGA
 AGACAGTGGCTCTGAAGAAGGTGCAGATCTTTGAGATGATGGACGCCAAGCGGAGGCAGGACTGTGTCAA
 GGAGATCGGCCTTTGAAGCAACTGAACCACCCAAATATCATCAAGTATTTGGACTCGTTTATCGAAGAC
 AACGAGCTGAACATTGTGCTGGAGTTGGCTGACGCAGGGGACCTCTCGCAGATGATCAAGTACTTTAAGA
 AGCAGAAGCGGCTCATCCCGGAGAGGACAGTATGGAAGTACTTTGTGCAGCTGTGCAGCGCCGTGGAGCA
 CATGCATTCACGCCGGGTGATGCACCGAGACATCAAGCCTGCCAACGTGTTTCATCACAGCCACGGGCGTC
 GTGAAGCTCGGTGACCTTGGTCTGGGCCGCTTCTTCAGCTCTGAGACCACCGCAGCCCACTCCCTAGTGG
 GGACGCCCTACTACATGTACCGGAGAGGATCCATGAGAACGGCTACAACCTCAAGTCCGACATCTGGTC
 CCTGGGCTGTCTGCTGTACGAGATGGCAGCCCTCCAGAGCCCTTCTATGGAGATAAGATGAATCTCTTC
 TCCCTGTGCCAGAAGATCGAGCAGTGTGACTACCCCACTCCCGGGGAGCAGTACTCCGAGAAGTTAC
 GAGAACTGGTCAGCATGTGCATCTGCCCTGACCCCAAGAGACCTGACATCGGATACGTGCACCAGGT
 GGCCAAGCAGATGCACATCTGGATGTCCAGCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228269 representing NM_001166169
Red=Cloning site Green=Tags(s)

MEATGWSRCSPTGQVRALVRLACRMAGQPGHMPHGGSSNNLCHTLGPVHPPDPQRHPNTLSFRCSLADF
 QIEKKIGRGQFSEVYKATCLLDRKTVALKKVQIFEMMDAKARQDCVKEIGLLKQLNHPNIKYLDSFIED
 NELNIVLELADAGDLSQMIKYFKKQKRLIPERTVWKYFVQLCSAVEHMSRRVMHRDIKANVFITATGV
 VKLGDGLGRFFSSETTAHSLVGTPYYMSPERIHENGYNFKSDIWSLGCLLYEMAALQSPFYGDKMNLF
 SLCQKIEQCDYPLPGEHYSEKLRELVSMCICPDPHQRPDIGYVHVQVAKQMHIWMSST

TRTRPLE - GFP Tag - V

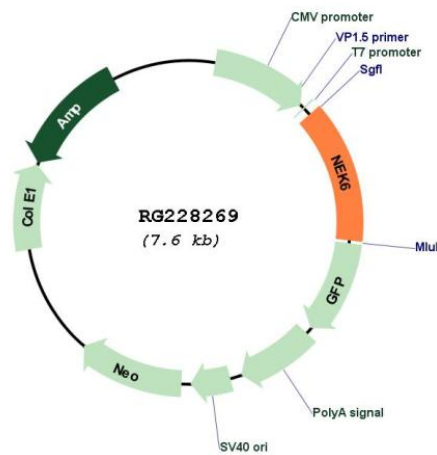
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001166169

ORF Size: 1014 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:	<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:	NM_001166169.1 , NP_001159641.1
RefSeq Size:	2596 bp
RefSeq ORF:	1017 bp
Locus ID:	10783
UniProt ID:	Q9HC98
Cytogenetics:	9q33.3
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	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]