

Product datasheet for **RG203609**

NEK6 (NM_014397) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEK6 (NM_014397) 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:	>RG203609 representing NM_014397 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGGACAGCCGGCCACATGCCCATGGAGGGAGTTCCAACAACCTCTGCCACACCCTGGGGCCTG
TGCATCCTCCTGACCCACAGAGGCATCCCAACACGCTGTCTTTTCGCTGCTCGCTGGCGGACTTCCAGAT
CGAAAAGAAGATAGGCCGAGGACAGTTCAGCGAGGTGTACAAGGCCACCTGCCTGCTGGACAGGAAGACA
GTGGCTCTGAAGAAGGTGCAGATCTTTGAGATGATGGACGCCAAGGCGAGGCAGGACTGTGTCAAGGAGA
TCGGCCTCTTGAAGCAACTGAACCACCCAAATATCATCAAGTATTTGGACTCGTTTATCGAAGACAACGA
GCTGAACATTGTGCTGGAGTTGGCTGACGCAGGGGACCTCTCGCAGATGATCAAGTACTTTAAGAAGCAG
AAGCGGCTCATCCCGGAGAGGACAGTATGGAAGTACTTTGTGCAGCTGTGCAGCGCCGTGGAGCAGATGC
ATTCACGCCGGGTGATGCACCGAGACATCAAGCCTGCCAAGTGTTCATCACAGCCACGGGCGTCGTGAA
GCTCGGTGACCTTGGTCTGGGCCGCTTCTTCAGCTCTGAGACCACCGCAGCCCACTCCCTAGTGGGGACG
CCCTACTACATGTCACCGGAGAGGATCCATGAGAACGGCTACAACCTCAAGTCCGACATCTGGTCTTGG
GCTGTCTGCTGTACGAGATGGCAGCCCTCCAGAGCCCTTCTATGGAGATAAGATGAATCTCTTCTCCCT
GTGCCAGAAGATCGAGCAGTGTGACTACCCCACTCCCGGGGAGCACTACTCCGAGAAGTTACGAGAA
CTGGTCAGCATGTGCATCTGCCCTGACCCCAACAGAGACCTGACATCGGATACGTGCACCAGGTGGCCA
AGCAGATGCACATCTGGATGTCCAGCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203609 representing NM_014397
Red=Cloning site Green=Tags(s)

MAGQPGHMPHGGSSNNLCHTLGPVHPPDPQRHPNTLSFRCSLADFQIEKKIGRGQFSEVYKATCLLDRKT
 VALKKVQIFEMMDAKARQDCVKEIGLLKQLNHPNIIKYLDSFIEDNELNIVLELADAGDLSQMIKYFKKQ
 KRLIPERTVWKYFVQLCSAVEHMHSSRRVMHRDIK PANVFITATGVVKLGDLGLGRFFSSETTAAHSLVGT
 PYYMSPERIHENGYNFKSDIWSLGCLLYEMAALQSPFYGDKMNLFSLCQKIEQCDYPPLPGEHYSEKLR
 LVSMCICPDPHQRPDIGYVHQVAKQMHIWMSST

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014397

ORF Size: 939 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:

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_014397.3](#), [NP_055212.2](#)

RefSeq Size: 2596 bp

RefSeq ORF: 942 bp

Locus ID: 10783

UniProt ID: [Q9HC98](#)

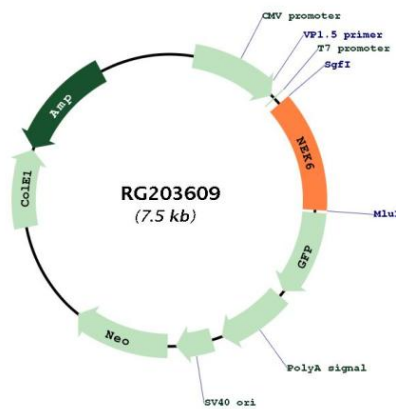
Cytogenetics: 9q33.3

Domains: kinase, TyrKc, S_TKc

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]

Product images:



Circular map for RG203609