

Product datasheet for **RG211857**

NEK7 (NM_133494) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEK7 (NM_133494) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NEK7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211857 representing NM_133494 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGAGCAATCACAAGGAATGCAAGGGCCACCTGTTCTCAGTTCCAACCACAGAAGGCCTTACGAC
CGGATATGGGCTATAATACATTAGCCAACCTTCGAATAGAAAAGAAAATTGGTCGCGGACAATTTAGTGA
AGTTTATAGAGCAGCCTGTCTCTTGGATGGAGTACCAGTAGCTTTAAAAAAGTGCAGATATTTGATTTA
ATGGATGCCAAAGCAGTGCTGATTGCATCAAAGAAATAGATCTTCTTAAGCAACTCAACCATCCAAATG
TAATAAAATATTATGCATCATTATTGAAGATAATGAACTAAACATAGTTTGGAACTAGCAGATGCTGG
CGACCTATCCAGAATGATCAAGCATTTTAAGAAGCAAAGAGGCTAATTCCTGAAAGAACTGTTTGGAAAG
TATTTTGTTCAGCTTTGCAGTGCATTGGAACACATGCATTCTCGAAGAGTCATGCATAGAGATATAAAAC
CAGCTAATGTGTTTATTACAGCCACTGGGGTGGTAAAACCTGGAGATCTTGGGCTTGGCCGGTTTTTCAG
CTCAAAAACCACAGCTGCACATTCTTTAGTTGGTACGCCCTATTACATGTCTCCAGAGAGAATACATGAA
AATGGATACAACTTCAAATCTGACATCTGGTCTCTTGGCTGTCTACTATATGAGATGGCTGCATTACAAA
GTCCTTCTATGGTGACAAAATGAATTTATACTACTGTGTAAGAAGATAGAACAGTGTGACTACCCACC
TCTTCTCAGATCACTATTGAGAAGAACTCCGACAGTTAGTTAATATGTGCATCAACCCAGATCCAGAG
AAGCGACCAGACGTCACCTATGTTTATGACGTAGCAAAGAGGATGCATGCATGCACTGCAAGCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG211857 representing NM_133494
Red=Cloning site Green=Tags(s)

MDEQSQGMQGPVPVQFQPQKALRPDMGYNTLANFRIEKKIGRQFSEVYRAACLDDGVPVALKKVQIFDL
MDAKARADCIKEIDLLKQLNHPNVIKYYASFIEDNELNIVLELADAGDLSRMIKHFKKQKRLIPERTVWK
YFVQLCSALEHMSRRVMHRDIK PANVFITATGVVKLGDLGLGRFFSSKTTAAHSLVGTPYYMSPERIHE
NGYNFKSDIWSLGCLLYEMAALQSPFYGDKMNL YSLCKIEQCDYPPLP SDHYSEELRQLVNM CINPDPE
KRPDVTVYYDVAKRMHACTASS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_133494

ORF Size: 906 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_133494.3](#)

RefSeq Size: 1072 bp

RefSeq ORF: 909 bp

Locus ID: 140609

UniProt ID: [Q8TDX7](#)

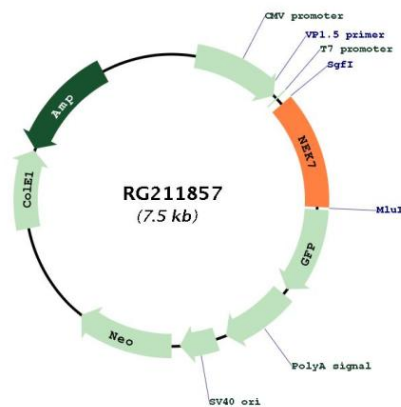
Cytogenetics: 1q31.3

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: NIMA-related kinases share high amino acid sequence identity with the gene product of the *Aspergillus nidulans* 'never in mitosis A' gene, which controls initiation of mitosis.[supplied by OMIM, Jul 2002]

Product images:



Circular map for RG211857