

Product datasheet for **MG204231**

Nek7 (NM_021605) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nek7 (NM_021605) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nek7
Synonyms:	2810460C19Rik; AU020186
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204231 representing NM_021605 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGAACAATCACAAGGAATGCAAGGGCCGCCGTTACTCAGTTCAGCCACAGAAGGCATTACGGC
CAGATATGGGCTATAACTTTAGCCAACCTCCGAATAGAAAAGAAAATGGTCGTGGACAATTTAGTGA
AGTTTATAGAGCATCCTGTCTTGGATGGAGTGCCGGTAGCGTTAAAAAAGTACAGATATTTGATTTA
ATGGATGCCAAAGCACGTGCTGATTGTATCAAAGAAATAGACCTCCTAAGCAACTCAACCATCCAATG
TAATTAATACTATGCATCATTATTGAGGATAATGAGCTGAACATAGTTTTGGAGTTAGCAGATGCTGG
TGACCTCTCCAGAATGATAAAGCACTTTAAGAAACAAAAGAGGCTAATCCCTGAGAGAACCCTTTGGAAA
TACTTCGTTTCAGCTCTGCAGTGCAGTGGACCACATGCATTCTCGAAGAGTCATGCACAGAGATATAAAAC
CAGCTAATGTGTTTATTACAGCCACTGGGGTAGTAAAACCTCGGAGACCTTGGGCTTGGTCGGTTTTTCAG
CTCCAAAACACAGCTGCACATTTAGTGGGTACACCTTACTACATGTCTCCAGAGAGAATACATGAA
AATGGATACAACTTCAAGTCTGACATCTGGTCTTTGGCTGTCTGCTATATGAGATGGCTGCACTGCAGA
GTCCTTTCTACGGCGACAAGATGAACCTGTATTCTGTGTAAGAAGATAGAGCAGTGTGACTACCCGCC
TCTCCCGTCAGATCACTATTCGGAGGAGCTACGACAGCTAGTTAATATATGCATCAACCCAGATCCAGAG
AAGCGACCCGACATCGCCTATGTTTATGATGTGGCAAAGAGGATGCATGCATGTACCGCAAGCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204231 representing NM_021605
 Red=Cloning site Green=Tags(s)

MDEQSQGMQGPVPTQFQPQKALRPDMGYNTLANFRIEKKIGRQFSEVYRASCLLDGVPVALKKVQIFDL
 MDAKARADCIKEIDLLKQLNHPNVIKYASFIEDNELNIVLELADAGDLSRMIKHFKKQKRLIPERTVWK
 YFVQLCSALDHMSRRVMHRDIK PANVFITATGVVKLGDLGLGRFFSSKTTAAHSLVGTPTYMSPERIHE
 NGYNFKSDIWSLGCLLYEMAALQSPFYGDKMNL YSLCKKIEQCDYPPLPDHYSEELRQLVNICINPDPE
 KRPDIAVYVDVAKRMHACTAST

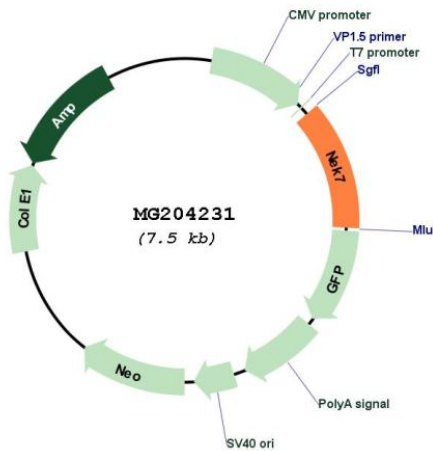
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021605

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:	<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_021605.4
RefSeq Size:	3366 bp
RefSeq ORF:	909 bp
Locus ID:	59125
UniProt ID:	Q9ES74
Cytogenetics:	1 60.82 cM
Gene Summary:	Protein kinase which plays an important role in mitotic cell cycle progression. Required for microtubule nucleation activity of the centrosome, robust mitotic spindle formation and cytokinesis. Phosphorylates RPS6KB1.[UniProtKB/Swiss-Prot Function]