

Product datasheet for **MC206327**

Nek6 (BC019524) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nek6 (BC019524) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nek6
Synonyms: 1300007C09Rik
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC019524
 GAGGGGCGCGGGCCAGGGCGTGGGACTGTACCCGAGGCGTTGTGGGCGCGCGCGTCCCGGGGAGTC
 GGCGGGGACGCCCGCAGGAGGCCGAGGTGTCCGCGCGGGCTCCATCCGCCAGCTGCGCGGAGTGCCT
 GCGTGTGCACATCAGGGGCCCGGCTTCCGTGACCTCGTGAGGCTGGCATGCAGGATGGCAGGACAGCCC
 AGCCACATGCCTCATGGAGGGAGCCAAACCACCTCTGCCATGCACTGGGCGCTGCACCCCTCCAGACC
 CACAGAGGCTCCCAAACACCCTGTCTTTTCGCTGCTCACTGGCAGACTTCCAAATTGAGAAGAAGATTGG
 CCGAGGACAGTTCAGTGAGGTTTACAAGGCCACTTGCCTGCTGGACAGGAAGACAGTGGCTCTGAAGAAG
 GTGCAGATCTTTGAGATGATGGATGCCAAAGCCAGGCAAGACTGTGTCAAGGAAATTGGTCTCTAAAGC
 AACTGAACCATCCGAATATCATCAAGTATCTGGACTCCTTCATCGAAGACAATGAGCTGAACATTGTGCT
 GGAGTTGGCTGACGCGGGTGACCTCTCACAGATGATCAAGTATTTCAAGAAGCAGAAGCGGCTTATCCCT
 GAGAGGACCGTGTGGAAGTACTTCGTGCAGCTGTGCAGCGCTGTGGAGCACATGCACTCCCGACGTGTGA
 TGACCCGAGACATCAAGCCCGCCAACGTGTTTCATCACAGCTACGGGCATTGTGAAGCTTGGTGACCTCGG
 CCTGGGCGCTTCTTCAGCTCGGAGACCACTGCGGCCACTCACTAGTGGAAACACCATACTACATGTCA
 CCCGAGAGAATCCATGAGAATGGCTACAACCTCAAGTCAGACATCTGGTCCCTAGGCTGCCTGCTGTATG
 AGATGGCAGCTCTCCAGAGCCCCCTTCTATGGAGATAAGATGAATCTTCTCCCTCTGCCAAAAGATTGA
 GCAGTGTGACTACCCGCCTCTCCCGGGAGAGCACTACTCTGAGAAGCTTCGGGAAGTGGTCAAGTATGTGT
 ATCTACCCTGACCCTGACCACCGACCTGACATTGTATATGTGCACCAGGTGGCTAGACAGATGCACGTCT
 GGACATCCAGCACCTGAACGCAACACACCTCATCAAAGCCAAGTCACTTGTCTTACTTGAATCCTCTCCC
 CAAGTGGTACCTGGAAGCCCCACAGCCAAGACTAGAGGACTCTCAGCTGGCTCCACCCAGCGGAAAACA
 GCTGGGCTATGGTCAGACTCCAAAGTCTTTCTTTGAACTGTGCGAGACAATCTGAGCTGGGATGAGTGG
 GGAGGGGTTTGGCAGCCATGAAAACCCCTGTACTACTGAAATGTGAACCTCTGCCTGGTTGCTTCAGA
 CCCGTCCAGGCCACACGGTCAGGAGACTTGAAGGGAGCTGGGTGACTAGTGTGGCCAGCCTTTGCAAA
 TGGTTACCACCATTGGTTTAGTTCTTAGTACCTTTCCATACAAAAA AAAAAAAAAAAAAAAAAAAAAA AAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: BC019524



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Insert Size:	942 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC019524 , AAH19524
RefSeq Size:	1551 bp
RefSeq ORF:	942 bp
Locus ID:	59126
Cytogenetics:	2 24.41 cM
Gene Summary:	Protein kinase which plays an important role in mitotic cell cycle progression. Required for chromosome segregation at metaphase-anaphase transition, robust mitotic spindle formation and cytokinesis. Phosphorylates ATF4, CIR1, PTN, RAD26L, RBBP6, RPS7, TRIP4, RPS6KB1 and histones H1 and H3. Phosphorylates KIF11 to promote mitotic spindle formation. Involved in G2/M phase cell cycle arrest induced by DNA damage. Inhibition of activity results in apoptosis. May contribute to tumorigenesis by suppressing p53/TP53-induced cancer cell senescence (By similarity). Phosphorylates STAT3.[UniProtKB/Swiss-Prot Function]