

Product datasheet for **MG216306**

Nek9 (NM_145138) Mouse Tagged ORF Clone

Product data:

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|---------------------------|-----------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Nek9 (NM_145138) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Nek9 |
| Synonyms: | C130021H08Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide
Sequence:

>MG216306 representing NM_145138
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCGGTGCTGGGCGAGTACGAGCGACTGCGATTCCATCAACTCGGACTTCGGAAGCGAGTCCGGGG
 GTGGCGGGGACTCGGGCCCGGGCCCCAGCGCTGTCCAGGGCCGCGAGCCGGCGGGGCGGGCGGAGCA
 GGAGGAGCTGCACTACATCCCCATCCGCGTTCTGGGCCGCGGTGCCTTTGGGGAGGCCACGCTGTACCGC
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 CAACCTATGTGTGAAGATCGTGCAGGGAATCCGGGCCATGGAAGTTGACTCGAGTCAGTATTCTTTGGAA
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 AGAAATGGAAATGGATCCAAAGCCTGACTTAGACTCGGAGTCTGGTGCCTCCTCGGAACAGACTCTGT
 CGACCCAGCCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG216306 representing NM_145138
 Red=Cloning site Green=Tags(s)

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MSVLGEYERHCDSINSDFGSESGGGGDSGPGPSAVPGPRAGGAAEQEELHYIPIRVLGRGAFGEATLYR
RTEDDSL VVWKEVDLTRLSEKERRDALNEIVILALLQHDNIIAYNHFMNTLLIELEYCNGNLYDKI
LRQKDKL FEEEMVVWYLFQIVSAVSCIHKAGILHRDIKTLNIFLTKANLIKLDYGLAKLNSEYSMAET
LVGTPYYMSPEL CQGVKYNFKSDIWA VGC VIFELLTLKRTFDATNPLNLCVKIVQGIRAMEVDSSQYSLE
LIQLVHACL DQDPEQRPAADALLDLPLLRTRRREMEEKVLLNAPTKRPRSSTVTEAPIAVVTSRTSEVY
VWGGGKSTPQKLDVIKSGCSARQVCAGNTHFAVVTVEKELYTWVNMQGGTKLHGQLGHGDKASYRQPKHV
EKLQGKAIHQVSCGDDFTVCVTDEGQLYAFGSDYYGCMGVKVS GPEVLEPMQLNFFLSNPVEQVSCGDN
HVVVLTRNKEVYSWGCGEYGRGLDSEEDYYTPQRVDVPKALII VAVQCGCDGTFLLTQSGKVLACGLNE
FNKLG LNLQCM SGIINHEAYHEVPYTTSTFLAKQLSFYKIRTIAPGKTHTAAIDERGRLLTFGCNKCGQLG
VGN YKKRLGINLLGGPLGGKQVIRVSCGDEFTIAATDDNHIFAWGNGNGRLAMPTERPHGSDICTSWP
RPIFGSLHHV PDLSCRGWHTILIVEKVLNSKTI RSNS SGLSIGTVVQSSSPGGGIGGGGGGGGGGGEE
DSQQESETPDPSGGFRGTMEADRMEGLISPTEAVGN SCGASS SPCGWL RKELENAEFIPMPDSPAPLSA
AFSQSEKDTLPYEELQGLKVASEV PPEPQRAAGAWPPRLDPAVPCV GKAL TSAACAC SALQVEVDRLQAL
VLKCLEEQKLQ QENLQMF TQLQKLNKKLEGGQQVGMHSRGTQTAK EEMEMDPKPDLDSESWCLLGT DSC
RPSL
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TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

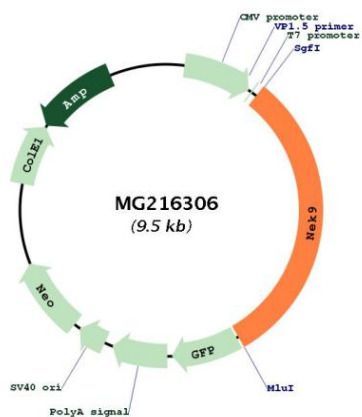


ACCN: NM_145138

ORF Size: 2952 bp

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| OTI Disclaimer: | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p> |
| OTI Annotation: | <p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p> |
| Components: | <p>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).</p> |
| 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: | <p>NM_145138.2, NP_660120.2</p> |
| RefSeq Size: | <p>5403 bp</p> |
| RefSeq ORF: | <p>2955 bp</p> |
| Locus ID: | <p>217718</p> |
| UniProt ID: | <p>Q8K1R7</p> |
| Cytogenetics: | <p>12 D1</p> |
| Gene Summary: | <p>Pleiotropic regulator of mitotic progression, participating in the control of spindle dynamics and chromosome separation. Phosphorylates different histones, myelin basic protein, beta-casein, and BICD2. Phosphorylates histone H3 on serine and threonine residues and beta-casein on serine residues Important for G1/S transition and S phase progression. Phosphorylates NEK6 and NEK7 and stimulates their activity by releasing the autoinhibitory functions of Tyr-108 and Tyr-97 respectively (By similarity).[UniProtKB/Swiss-Prot Function]</p> |

Product images:



Circular map for MG216306