

Product datasheet for **MG209561**

Nek5 (BC053516) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nek5 (BC053516) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nek5
Synonyms:	6530411J22; BB049667
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209561 representing BC053516
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGATAACTTTACCTGATTAAGATCATTGGGAAGGCACCTTTGGGAAGGTGTACTTGGCTAAGATA
 AATCAGAAAGCAGTCACTGTGTATATAAGAAATCAGTTTGACAAAGGAAAAAGAGGCCTCAAAGAACGA
 AGTGATTCTTCTGGCTAGGATGGAGCATCCAATATCGTAACCTTCTTCAGCTCGTTTCAAGAGAACGGC
 AGGCTGTTTATTGTAATGGAATACTGTGATGGAGGGGATCTCATGCAGAGGATCCAGAGGCAGCGGGAG
 TGATGTTTCAGCGAAGACCAGATCCTGTGTTGGTTGTACAGATTCTCTAGGACTGAAGCATATTCATGA
 CAGGAAGATTTACACAGGGACATAAAATCTCAGAATATTTTCTTAGCAAGAATGGAATGGTTGCCAAG
 CTCGGGGACTTTGGAACAGCAAGAACTGAATGACTCCATGGAAGTGTCTCAAACATGTCTGGGACAC
 CTTACTACCTGTCCCAGAGATCTGTGAGAACAGGCCATACAACAATAAAACGGACATCTGGTCTCTTGG
 CTGTGTCTTATATGAGCTCTGCACACTCAAGCATCCTTTTGAGAGCAACAACTTCCACCATCTGGTCTCTG
 AAGATTTGTCAAGGACGTGTGCTCCCATATCACCCACTTCTCTCGTGACCTACAGTCTTGATACCTC
 AGCTCTTCAGAGTGTCTCCTCAGGACCGGCCATCCGTTACGTCCCTTTTAAAAAGACCTTTTATAGAAAC
 TCTCATTGCCCGATCCTTGATCCTGAGGTCTGTTCAAGAAGAATCCAGTCCCACGCTCACATGGAGAAC
 ATGGCCATTGGCCCCACAGCTTGTGGAGAGTTAGTCCATGGTCTGCTGCCTACCTTCAGAGGAAATTTG
 AAGCTCAGCAATATAAGTTAAAAGTGGAAAGACAAATGGGTCTTCGTCCATCTTCTGTGGAACCATCC
 AAACGAGGGAGAAAAGCTACAAAGTCATTGGGAGGAGACTAAATCCAGGAGCTTCAATACAGGAAGAAC
 AAAATGAAGGACCAGGAATATTGGAACAGCTGGAAGAAATCCGCCAACAGTACCACAACGACATGAAGG
 AAATTAAGGAAGAAATGGGGAGAGAGCTGAAGAGAGTGGTAAAGTTTGAATCAGCCTAGACAAGTGAT
 TTCAGAGGAAGACACCGTCCAGGAGAATGAGGCAGTGGATAAACTAAATGCTACTTTAAGCTTTGAAGAT
 GGCACGAAGTTTCAGGAGCACAGATGTAAGGAGGAACATGAAGACTATACAGACAGAGCCTTTGAAGAAC
 TCTGTGGCCAGAAAGCAGAGGGTTTCTTCAGGATGTCATTGCCGAGAGAACAGGAGGCAGTGGGATGC
 CGGGGCACCTCACACTCTGCTGCGAATAATGGCAATGGCAGATGTACCTCCACCTGCCCCACCATGCCG
 GATGATGGCCAAGTGATTGTGATGGAAGGCAGTGTAGAGAATGGGAAGCAGTGGTGGCTGGATGTGCCAG
 GGACCCCGTGTGCTTTGGCAGCAGAGTGTGCTGCAGTGGCTCATTGTCTGCCAGTAAAGGAGAAACCGT
 AATGATCAAACACAGCTTCTTAAAGAAGACCAGGAAAAGGTAGAAATAGCCACGGGCATCATGGTGGAT
 GATGAACAGCTGGAACCAGGATCGATGAAGATGACATAAAATTTGAAGAATCTGAAGATGAGCTGAGGA
 GTGAAATATAGAATCCCTAGAAAACTTGCAGCTTCCACAGAAGAAGCGGAACAGGCTCCACAGCTCCTC
 TAAGAATGCAGAGGAGCCAGGAGAGAAAGAAAAGACAACTTGCCAGTCAAGAACTCCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209561 representing BC053516
 Red=Cloning site Green=Tags(s)

MDNFHLIKIIGEGTFGKVYLAKDKSESSHCVIKEISLTKEKEASKNEVILLARMEHPNIVTFFSSFQENG
 RLFIVMEYCDGGDLMQRIQRQGRVMFSEDQILCWVQISLGLKHIHDRKILHRDIKSQNIFLSKNGMVAK
 LGDFGTARTLNDSELAQTCACTPYLSPICQNRPNYNNKTDIWSLGCVLIELCTLKHPFESNNFHLVL
 KICQGRVAPISPHFSRDLQSLIPQLFRVSPQDRPSVTSLLKRPFLETIARSLYPEVCSRRIQSHAHMEN
 MAIGPTACWRVSPWSAAYLQRKFEAQYKLVKVERQLGLRPSSVEPHPNEGEKLQSHWEETKFQELQYRKN
 KMKDQYWKQLEEIRQQYHNDMKEIKKKMGRELKRVVKFEISLDKCISEEDTVQENEAVDKLNATLSFED
 GTKFQEHRCKEEHEDYTDRAFEELCGPEAEGFFQDVIAAENRRQWDAGAPHTLLRIMAMADVTSTCPTMP
 DDGQVIVMEGSEVNGKQWWLDVPGTPCALAAECACSGSLSASKGETVMIKPQLPKEDQEKVEIATGIMVD
 DEQLEPGSDEDDIKFEESEDELRESEIIESLEKLAASTEAEQAPSSSKNAEEPGEKEKTNLPVKKLQ

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: BC053516

ORF Size: 1881 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC053516](#), [AAH53516](#)

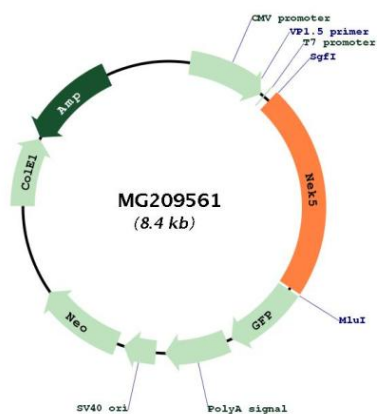
RefSeq Size: 2281 bp

RefSeq ORF: 1883 bp

Locus ID: 330721

Cytogenetics: 8 A2

Product images:



Circular map for MG209561