

## Product datasheet for **MR209561**

### **Nek5 (BC053516) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nek5 (BC053516) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nek5
Synonyms:	6530411J22; BB049667
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209561 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGATAACTTTACCTGATTAAGATCATTGGGAAGGCACCTTTGGGAAGTGTACTTGGCTAAAGATA  
 AATCAGAAAGCAGTCACTGTGCATAAAAAGAAATCAGTTTGACAAAGGAAAAAGAGGCCTCAAAGAACGA  
 AGTGATTCTTCTGGCTAGGATGGAGCATCCAATATCGTAACCTTCTTCAGCTCGTTTCAAGAGAACGGC  
 AGGCTGTTTATTGTAATGGAATACTGTGATGGAGGGGATCTCATGCAGAGGATCCAGAGGCAGCGGGGAG  
 TGATGTTCCAGCGAAGACCAGATCCTGTGTTGGTTGTACAGATTTCTCTAGGACTGAAGCATATTCATGA  
 CAGGAAGATTTTACACAGGGACATAAAATCTCAGAATATTTTTCTTAGCAAGAATGGAATGGTTGCCAAG  
 CTCGGGGACTTTGGAACAGCAAGAACACTGAATGACTCCATGGAAGTCTCAACATGTGCTGGGACAC  
 CTTACTACCTGTCCCAGAGATCTGTGAGAACAGGCCATAACAATAAAACGGACATCTGGTCTCTTGG  
 CTGTGCTTATATGAGCTCTGCACACTCAAGCATCCTTTTGGAGCAACAACCTCCACCATCTGGTTCTG  
 AAGATTTGTCAAGGACGTGTGCTCCCATATCACCCACTTCTCTCGTGACTACAGTCTTGATACCTC  
 AGCTCTTCAGAGTGTCTCCTCAGGACCGGCCATCCGTTACGTCCCTTTTAAAAGACCCTTTTTAGAAAC  
 TCTCATTGCCCGATCCTTGATCCTGAGGTCTGTTCAAGAAGAATCCAGTCCCACGCTCACATGGAGAAC  
 ATGGCCATTGGCCCCACAGCTTGTGGAGAGTTAGTCCATGGTCTGCTGCCTACCTTCAGAGGAAATTTG  
 AAGCTCAGCAATATAAGTTAAAAGTGGAAAGACAATTGGGTCTTCGTCCATCTTCTGTGGAACCACATCC  
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 AAAATGAAGGACCAGGAATATTGAAACAGCTGGAAGAATCCGCCAACAGTACCACAACGACATGAAGG  
 AAATTAAGGAGAAAATGGGGAGAGAGCTGAAGAGAGTGGTAAAGTTTGAATCAGCCTAGACAAGTGTAT  
 TTCAGAGGAAGACACCGTCCAGGAGAATGAGGCAGTGGATAAACTAAATGCTACTTTAAGCTTTGAAGAT  
 GGCACGAAGTTTCAAGGACACAGATGTAAGGAGGAACATGAAGACTATACAGACAGAGCCTTTGAAGAAC  
 TCTGTGGCCAGAACGAGAGGGTTCTTTCAGGATGTCATTGCCGCAGAGAACAGGAGGCAGTGGGATGC  
 CGGGGCACCTCACACTCTGCTGCGAATAATGGCAATGGCAGATGTACCTCCACCTGCCCCACCATGCCG  
 GATGATGGCCAAGTATTGTGATGGAAGGCAGTGTAGAGAATGGGAAGCAGTGGTGGCTGGATGTGCCAG  
 GGACCCCGTGTGCTTTGGCAGCAGAGTGTGCTGCAGTGGCTCATTGTCTGCCAGTAAAGGAGAAAACCGT  
 AATGATCAAACCACAGCTTCTAAAGAAGACCAGGAAAAGGTAGAAATAGCCACGGGCATCATGGTGGAT  
 GATGAACAGCTGGAACCAGGATCGGATGAAGATGACATAAAATTTGAAGAATCTGAAGATGAGCTGAGGA  
 GTGAAATATAAGAAATCCCTAGAAAAACTTGACAGCTTCCACAGAAGAAGCGGAACAGGCTCCAGCTCCTC  
 TAAGAATGCAGAGGAGCCAGGAGAGAAAAGAAAAGACAACTTGCCAGTCAAGAACTCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

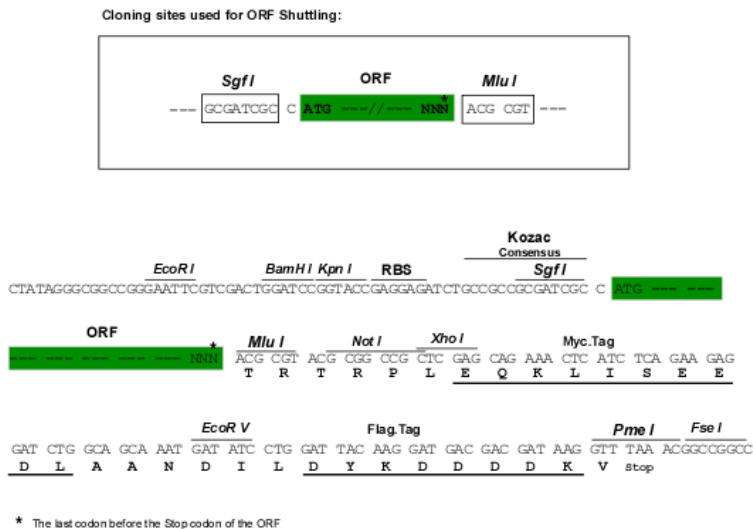
>MR209561 protein sequence  
 Red=Cloning site Green=Tags(s)

MDNFHLIKIIGEGTFGKVVYLAQDKSESSHCVIKEISLTKEKEASKNEVILLARMEHPNIVTFFSSFQENG  
 RLFIVMEYCDGGDLMQRIQRQRGVMFSEDQILCWFVQISLGLKHIHDRKILHRDIKSQNIFLSKNGMVAK  
 LGDFGTARTLNDMELAQTCAGTPYYLSPEICQNRPYNNKTDIWSLGCVLVELCTLKHPFESNNFHLVL  
 KICQGRVAPISPHFSRDLQSLIPQLFRVSPQDRPSVTSLLKRPFLETLIARSLYPEVCSRRIQSHAHMEN  
 MAIGPTACWRVSPWSAAYLQRKFEAQYKLVKVERQLGLRPSSVEPHPNEGEKLQSHWEETKFQELQYRKN  
 KMKDQEWYKQLEERQQYHNDMKEIKKKMGRELKRVVKEISLDKCISEEDTVQENEAVDKLNATLSFED  
 GTKFQEHRCKEEHEDYTDRAFEELCGPEAEGFFQDVIAAENRRQWDAGAPHTLLRIMAMADVSTCTPMP  
 DDGQVIVMEGVSVEKQWLLDVPGTPCALAAECACSGSLSASKGETVMIKPQLPKEDQEKEVEIATGIMVD  
 DEQLEPGSDEDDIKFEESEDELRESEIIESLEKLAASTEAEQAPSSSKNAEPEGEKEKTNLPVKKLQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**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.

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

**RefSeq Size:** 2281 bp

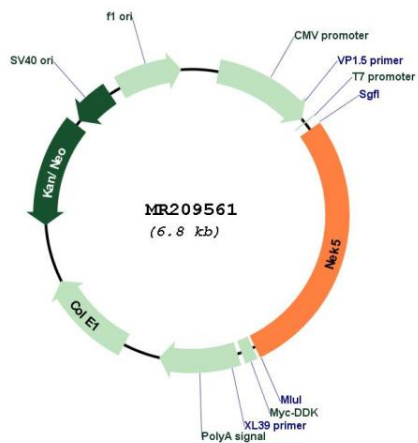
**RefSeq ORF:** 1883 bp

**Locus ID:** 330721

**Cytogenetics:** 8 A2

MW: 71.8 kDa

Product images:



Circular map for MR209561