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Product datasheet for RC209623

NEK5 (NM_199289) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEK5 (NM_199289) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NEK5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC209623 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATAAGTACGATGTGATTAAGGCCATCGGGCAAGGTGCCTTCGGGAAAGCATACTTAGCTAAAGGGA
AATCAGATAGCAAGCACTGTGTCATAAAAGAGATCAATTTTGAAAAGATGCCCATACAAGAAAAAGAAGC
TTCAAAGAAAGAAGTGATTCTTCTGGAAAAGATGAAACATCCCAACATTGTAGCCTTCTTCAATTCATTT
CAAGAGAATGGCAGGCTGTTTATTGTAATGGAATATTGTGATGGAGGGGATCTCATGAAAAGGATCAATA
GACAACGGGGTGTGTTATTTAGTGAAGATCAGATCCTCGGTTGGTTTGTACAGATTTCTCTAGGACTAAA
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ATGGTGGCAAAGCTTGGGGACTTTGGTATAGCAAGAGTCCTGAATAATTCCATGGAACTTGCTCGAACTT
GTATTGGAACACCTTACTACCTGTCCCCAGAGATCTGTCAGAATAAACCCTACAACAATAAAACGGATAT
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CAGCTGGTTCTGAAGATTTGTCAAGCACATTTTGCCCCAATATCTCCGGGGTTTTCTCGTGAGCTCCATT
CCTTGATATCTCAGCTCTTTCAAGTATCTCCTCGAGACCGACCATCCATAAATTCCATTTTGAAAAGGCC
CTTTTTAGAGAATCTTATTCCCAAATATTTGACTCCTGAGGTCATTCAGGAAGAATTCAGTCACATGCTT
ATATGCAGAGCAGGAGCGCCAGCTTCTCGACATGCTGGGAAGGTGGTCCAGAAGTGTAAAATACAAAAAG
TGAGATTCCAGGGAAAGTGCCCACCAAGATCAAGGATATCTGTGCCAATTAAAAGGAATGCTATATTGCA
TAGAAATGAATGGAGACCACCAGCTGGAGCCCAGAAGGCCAGATCTATAAAAATGATAGAAAGACCCAAA
ATTGCTGCTGTCTGTGGACATTATGATTATTATTATGCTCAACTTGATATGCTGAGGAGGAGAGCCCACA
AACCAAGTTATCACCCTATTCCTCAAGAAAATACTGGAGTTGAGGATTACGGTCAGGAAACGAGGCATGG
TCCATCCCCAAGTCAATGGCCTGCTGAGTACCTTCAGAGAAAATTTGAAGCTCAACAATATAAGTTGAAA
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AAGATGCATCTGAGGGAGAAGCACCTGTGCAGATGGAATTTCGCTCTTGTTGCCCAGGCTGGAGTGCAAT
GGCACGATCTTGGCTCACCGCAACCTCCGCCTCCCAGGACATTGAAAAAGACTTGAAACAAATGAGGCTT
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AAAGCATTTGAAAAACTTCACTGCCCAGAAGCAGGGTTTTCCACGCAGACTGTAGCTGCTGTGGGAAACA
GGAGGCAGTGGGATGGAGGAGCGCCTCAGACTCTGCTGCAGATGATGGCAGTGGCCGACATCACCTCCAC
CTGCCCCACGGGGCCTGACAGTGAGTCTGTGCTTAGCGTCAGTCGTCAGGAAGGGAAGACCAAGGACCCG
TACAGCCCAGTGCTCATCCTGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209623 protein sequence
Red=Cloning site Green=Tags(s)

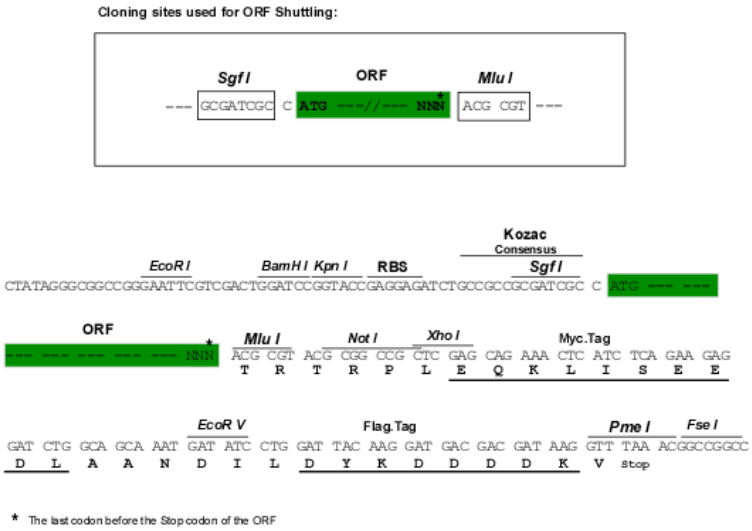
MDKYDVIKAIGQGAFGKAYLAKGKSDSKHCVIKEINFEKMPIQEKEASKKEVILLEKMKHPNIVAFFNSF
QENGRLFIVMEYCDGGDLMKRINRQRGVLFSEDQILGWFVQISLGLKHIHDRKILHRDIKAQNIFLSKNG
MVAKLGDFGIARVLNNSMELARTCIGTPYYLSPEICQNKPYNNKTDIWSLGCVLYELCTLKHPFEGNNLQ
QLVLKICQAHFAPISPGFSRELHSLISQLFQVSPRDRPSINSILKRPFLENLIPKYLTPEVIQEEFSHML
ICRAGAPASRHAGKVVQKCKIQKVRFQGKCPPRSRISVPIKRNAILHRNEWRPPAGAQKARSIKMIERPK
IAAVCGHYDYYYAQLDMLRRRAHKPSYHPIPQENTGVEDYGQETRHGPSPSQWPAEYLQRKFEAQQYKLK
VEKQLGLRPSSAEPNYNQRQELRSNGEEPRFQELPFRKNEMKEQEYWKQLEEIRQQYHNDMKEIRKKMGR
EPEENSKISHKTYLVKKSNLPVHQDASEGEAPVQMEFRSCCPGWSAMARSWLTATSASQDIEKDLKQMRL
QNTKESKNPEQKYKAKKGVKFEINLDKCISDENILQEEEAMDIPNETLTFEDGMKFKEYECVKEHGDYTD
KAFEKLHCPEAGFSTQTVAAVGNRRQWDGGAPQTLLQMMAVADITSTCPTGPDSESVLSVSRQEGKTKDP
YSPVLILM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6366_g11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_199289

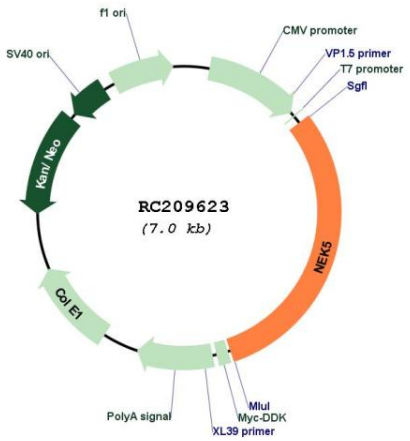
ORF Size: 2124 bp

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

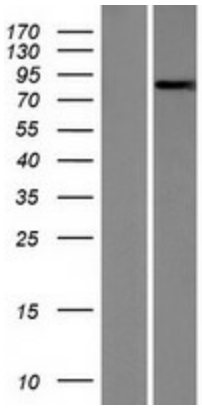
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	NM_199289.3
RefSeq Size:	2949 bp
RefSeq ORF:	2127 bp
Locus ID:	341676
UniProt ID:	Q6P3R8
Cytogenetics:	13q14.3
Protein Families:	Druggable Genome, Protein Kinase
MW:	81.4 kDa

Product images:



Circular map for RC209623



Western blot validation of overexpression lysate (Cat# [LY404609]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209623 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).