

Product datasheet for **RG209623**

NEK5 (NM_199289) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEK5 (NM_199289) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NEK5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG209623 representing NM_199289
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATAAGTACGATGTGATTAAGGCCATCGGGCAAGGTGCCTTCGGGAAAGCATACTTAGCTAAAGGGA
 AATCAGATAGCAAGCACTGTGTCATAAAAGAGATCAATTTTGAAGAGATGCCCATACAAGAAAAAGAAC
 TTCAAAGAAAGAGTGATTCTTCTGAAAAAGATGAAACATCCCAACATTGTAGCCTTCTTCAATTATTT
 CAAGAGAATGGCAGGCTGTTTATTGTAATGGAATATTGTGATGGAGGGATCTCATGAAAAGGATCAATA
 GACAACGGGGTGTGTTATTTAGTGAAGATCAGATCCTCGTTGGTTTGTACAGATTTCTCTAGGACTAAA
 ACATATTCATGACAGGAAGATATTACACAGGGACATAAAAGCTCAGAACATTTTTCTTAGCAAGAACGGA
 ATGGTGGCAAAGCTTGGGACTTTGGTATAGCAAGAGTCTGAATAATTCCATGGAACCTTGCTCGAACTT
 GTATTGGAACACCTTACTACCTGTCCCCAGAGATCTGTCAGAATAAACCTACAACAATAAACGGATAT
 TTGGTCTCTTGGCTGTGCTTATATGAGCTCTGCACACTTAAACATCCTTTTGGGGTAACAACCTACAG
 CAGCTGGTTCTGAAGATTTGTCAAGCACATTTTGCCTCAATATCTCCGGGTTTTCTCGTGAGCTCCATT
 CCTTGATATCTCAGCTCTTTCAAGTATCTCCTCGAGACCGACCATCCATAAATCCATTTTGAAGGGCC
 CTTTTAGAGAATCTTATCCCAATATTTGACTCCTGAGGTCAATCAGGAAGAATTCAGTCACATGCTT
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 TAGAAATGAATGGAGACCACAGCTGGAGCCAGAGGCCAGATCTATAAAATGATAGAAAGACCCAAA
 ATTGCTGCTGTCTGTGGACATTATGATTATTATTGCTCAACTTGATATGCTGAGGAGGAGAGCCCA
 AACCAAGTTATCACCTATTCTCAAGAAATCTGGAGTTGAGGATTACGGTCAGGAAACGAGGCATGG
 TCCATCCCCAAGTCAATGGCCTGCTGAGTACCTTCAGAGAAAATTTGAAGCTCAACAATATAAGTTGAAA
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 GTAATGGAGAAGAGCCTAGATTCAGGAGCTGCCATTTAGGAAAAACGAAATGAAGGAACAGGAATATTG
 GAAGCAGTTAGAGGAAATACGCCAACAGTACCACAATGACATGAAAGAAATTAGAAAGAAGATGGGAGA
 GAACCAGAGGAGAACTCAAAAATAAGTCATAAACCTATTTGGTGAAGAAGAGTAACCTGCCTGTCCATC
 AAGATGCATCTGAGGGAGAAGCACCTGTGCAGATGGAATTTGCTCTTGTGCCCAGGCTGGAGTGAAT
 GGCACGATCTTGGCTCACCGCAACCTCCGCTCCAGGACATTGAAAAAGACTTGAAACAAATGAGGCTT
 CAGAACACAAAGGAAAGTAAAAATCCAGAACAGAAATATAAGCTAAGAAGGGGGTAAATTTGAAATTA
 ATTTAGACAAATGATTTCTGATGAAAACATCCTCAAGAGGAAGAGGCAATGGATATACCAATGAAAC
 TTTGACCTTTGAGGATGGCATGAAGTTTAAAGGAATATGAATGTGTAAAGGAGCATGGAGATTATACAGAC
 AAAGCATTTGAAAACTTCACTGCCCAGAGCAGGTTTTCCACGCAGACTGTAGCTGCTGTGGGAAACA
 GGAGGCAGTGGGATGGAGGAGCGCTCAGACTCTGCTGCAGATGATGGCAGTGGCCGACATCACCTCCAC
 CTGCCCCACGGGGCTGACAGTGAGTCTGTGCTTAGCGTCAGTCAGGAAGGGAAGACCAAGGACCCG
 TACAGCCCAGTGCTCATCCTGATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG209623 representing NM_199289
 Red=Cloning site Green=Tags(s)

MDKYDVIKAIQGAGFKAYLAKGKSDSKHCVIKEINFEKMPIQEKEASKKEVILLEKMKHPNIVAFFNSF
 QENGRLFIVMEYCDGGDLMKRINRQGVLFSEDQILGWFVQISLGLKHIHDRKILHRDIKAQNIFLSKNG
 MVAKLGDGFIARVLNNSMELARTCIGTPYYLSPEICQNKPYNNKTDIWSLGCVL YELCTLKHPFEGNNLQ
 QLVLKICQAHFAPISPGFSRELHSLISQLFQVSPDRPSINSILKRPFLNLIPKYLTPETVIEEFSHML
 ICRA GAPASRHAGKVQKCKIQKVRFGKCPPRSISVPIKRNAILHRNEWPPAGAQAQKARSIKMIERP
 IAAVCGHYDYQYQLDMLRRRAHKPSYHPQPENTGVEDYQGQETRHGPSQWPAEYLQRKFEAQYKLLK
 VEKQLGLRPSSAEPNPNRQELRSNGEPRFQELPFRKNEMKEQEYWKQLEEIRQYHNDMKEIRKKMGR
 EPEENSKI SHKTYLVKKSNNLPVHQDASEGEAPVQMEFRSCCPGWSAMARSWLTATSASQDIEKDLQMRL
 QNTKESKNPEQKYAKKGVKFEINLDCISDENILQEEEAAMDIPNETLTFEDGMKFKEYECVKEHGDYTD
 KAFEKLHCPEAGFSTQTVAAVGNRRQWDGGAPQTLQMMAVADITSTCPTGPDSESVLSVSRQEGKTKDP
 YSPVLILM

TRTRPLE – GFP Tag – V

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

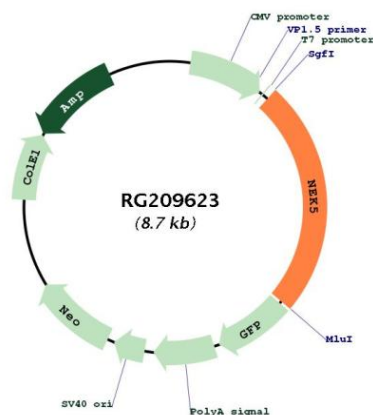
Locus ID: 341676

UniProt ID: [Q6P3R8](#)

Cytogenetics: 13q14.3

Protein Families: Druggable Genome, Protein Kinase

Product images:



Circular map for RG209623