

Product datasheet for **RG208003**

NEK10 (NM_001031741) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEK10 (NM_001031741) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NEK10
Synonyms:	CILD44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208003 representing NM_001031741
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTTTCCTGTACAGCCTGCAGAACCCCCGAGGTACTGAAGAGTGAGCCGTATGGGAGAAGGCTGATG
 TCTGGGCAGTAGGCTGCATCCTTTATCAGATGGCGACTTTGAGTCCCCCTTCTACAGCACTAACATGCT
 GTCCTTGCTACAAAAATAGTGGAGGCGGTATATGAACCAAGTGCAGAAAGGTATCTACTCTGAAAAAGTA
 ACAGACACCATCAGCAGGTGCCTCACTCCTGATGCGGAAGCTCGTCCAGATATTGTAGAAGTCAGTTCGA
 TGATATCAGATGTCATGATGAAATATTTAGACAACTTATCTACATCCCAGTTGTCCTTGAAAAAGAAGCT
 AGAACGGGAACGAAGACGCACACAAAGGTATTTTATGGAAGCCAACCGAACACCGTCACATGTCACCAT
 GAGCTGGCTGTTCTATCTCACGAGACCTTTGAGAAGGCAAGTTTGTAGTAGCAGCAGCAGTGGAGCAGCCA
 GCCTGAAAAGTGAACCTTCAGAAAGCGCAGACCTGCCCCCTGAAGGCTTCCAGGCCTCCTATGGTAAAGA
 CGAAGACAGGGCCTGTGACGAAATCCTGTCAGATGATAACTTCAACCTGGAAAATGCTGAGAAAGATACA
 TATTTCAGAGGTAGATGATGAATTGGACATTTCCGATAACTCCAGCAGCTCCAGTTCAAGCCCTCTGAAAG
 AATCTACATTCAACATTTTAAAGAGAAGTTTGTAGTCTCAGGAGGAGAAAGACAATCCCAACAAGGGA
 CTTCACTGGAGGAACAGGATCAAGACCAAGACCAGCTTTGCTGCCTCTTGACCTGCTTCTGAAAGTGCCA
 CCCCATATGCTCAGGGCCACATTAAGGAAATAGAGGCTGAGTTAGTGACAGGGTGGCAGTCCCATAGCC
 TTCCTGCTGTGATTCTTCGAAATCTCAAAGATCATGCATCAGCAGGAATTGCTGTGTCCAGAGGAAAGT
 GCGTCAGATCAGTGATCCTATTCAGCAGATATTAATTCAGCTGCACAAAATAATCTATATCACACAGCTT
 CCTCCAGCTTTGCACCACAATTTGAAAAGAAGGGTTATAGAGAGATTCAAGAAATCCCTCTTCAGCCAGC
 AGAGTAACCTTGTAAATTTGAAATCTGAAATTAAGGTTATCTCAGGGATCTCCAGAACCGATTGAGCC
 CAACCTTTTTCACAGCAGATTACCATTTTATTACATCGTTTCATCCGGTGGAACAGCCTGTCCCCAAATGAC
 CCTACAGGTTTACCAACCAGCATTGAATTGGAGGAAGGAATAACATATGAACAGATGCAGACTGTGATTG
 AAGAAGTCCTTGAGGAAAGTGGCTATTACAATTTTACATCTAACAGGTATCATTCTATCCATGGGGGAC
 CAAGAATCACCAACCAAAAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208003 representing NM_001031741
 Red=Cloning site Green=Tags(s)

MVPVQPAEPPEVLKSEPYGEKADVWAVGCILYQMATLSPPFYSTNMLSLATKIVEAVYEPVPEGIYSEKV
 TDTISRCLTPDAEARPDIVEVSSMISDVMMKYLDNLSTSQLSLEKKLERERRRTQRYFMEANRNTVTCHH
 ELAVLSHETFEKASLSSSSSGAASLKSELSESADLPPEGFQASYGKDEDACDEILSDDNFLENAEKDT
 YSEVDDELDISNSSSSSSSPLKESTFNILKRSFSASGGERQSQRDFTGGTGSRRPALLPLDLLLKVP
 PHMLRAHIKEIEAELVTGWQSHSLPAVILRNLDHASAGIAVSQRKVRQISDPIQQILQLHKIIYITQL
 PPALHHNLKRRVIERFKSLFSQQSNPCNLKSEIKKLSQGSPEPIEPNFFTADYHLLHRSSGGNSLSPND
 PTGLPTSIELEEGITYEQMTVIEEVLEESGYNYFTSNRYHSYPWGTHNPTKR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001031741

ORF Size: 1422 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_001031741.1](#), [NP_001026911.1](#)

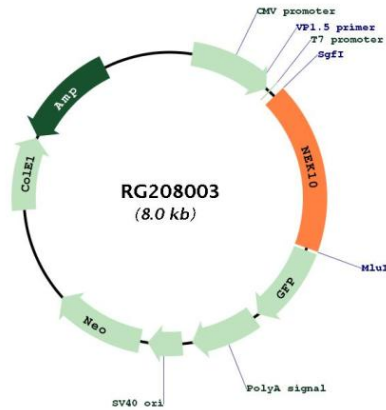
RefSeq Size: 2037 bp

RefSeq ORF: 1425 bp

Locus ID: 152110

UniProt ID:	<u>Q6ZWH5</u>
Cytogenetics:	3p24.1
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	Plays a role in the cellular response to UV irradiation. Mediates G2/M cell cycle arrest, MEK autoactivation and ERK1/2-signaling pathway activation in response to UV irradiation. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG208003