

Product datasheet for **RC226105**

NEK10 (NM_199347) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NEK10 (NM_199347) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NEK10
Synonyms:	CILD44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC226105 representing NM_199347
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTGATCAAGATAAAAAGGTGAAGACCACAGAAAAATCAACTGATAAACAGCAAGAAATCACCATCA
 GGGACTATTCAGATCTTAAAAGACTTCGGTGCCTTTTGAACGTCCAATCAAGCAAACAACAGCTTCCAGC
 CATTAACTTCGATAGTGCCAAAATAGCATGACGAAGTCTGAGCCCGCCATCAGGGCGGGTGGACACAGA
 GCTCGGGGTCAAGTGGCATGAATCCACAGAAGCTGTTGAACTTGAAAAATTTAGTATAAACTACAAGAATG
 AGAGAAATTTAGCAAACATCCTCAGCGTAACTATTTAGGAGATCTTACCGCCTTGGTGAAAAATAG
 ACTCATAAGCAGAGAGTGGGTTAATCGAGCCCCATCTATTCATTTTCTGAGAGTGTAACTGTCTGAGG
 CTACTAATGAGGGATCCATGTTATCAGGAAATACTCCATAGCTTGGGTGGGATTGAAAACCTAGCTCAGT
 ATATGGAGATTGTAGCCAATGAGTACCTCGGCTATGGAGAAGAGCAGCACACTGTGGACAAGCTGGTCAA
 CATGACATATATTTTCAAAAACCTTGCTGCAGTCAAAGATCAAAGAGAATGGGTACCACAAGTGGAGCC
 CACAAGACATTAGTAAATTTACTTGGTGCCCGAGATACTAATGTTCTATTGGGTTCCCTTCTGGCTCTGG
 CTAGTTTAGCAGAAAGTCAAGAATGTAGGGAGAAGATAAGTGAACCAACATTGTAGAAAATCTGTTGAT
 GATTTTACATGAATATGACTTGCTTTCTAAAAGACTAACAGCGGAGTTGCTGCGCCTACTTTGTGCAGAG
 CCCCAGGTGAAAGAGCAGGTGAAGCTCTATGAGGGGATACCGGTCTCTCAGTCTGCTCCACTCTGACC
 ACTTGAAGCTCCTCTGGAGCATTGTCTGGATTCTGGTACAGGTTTGTGAGGACCTGAGACCAGCGTGGA
 AATTCGCATTTGGGGAGGCATCAAACAGCTTCTCATATTTACAAGGAGACAGAAATTTGTTTCTGAT
 CACTCTCCATTGGAAGCCTGTCCAGTGCAAATGCTGCAGGCCGAATCCAGCAGCTTCATTTATCAGAAG
 ACTTGGCCCTAGGGAAATACAAGAAAATACTTTCTCACTTCAAGCAGCCTGCTGTGCTGCCCTCACTGA
 GCTGGTGTCTCAATGACACCAATGCCACCAGGTGGTTCAGGAAAATGGTGTATATACAATAGCAAAATTA
 ATTTTACCAAATAAGCAAAAAGTGCAGCAAAAAGTAATCTATTACAGTGTATGCTTTAGAGCCTTGA
 GATTTCTCTTTCAGTATGGAAGAAAACAGACCCTCTTAAAAGACTTTTCCACAGACTTGTGAGAT
 CTTCATTGACATAGGGCATTATGTACGTGATATCAGTGTATGAAGAATTGGTATCCAAGCTGAATTTA
 TTAGTGGAGGATGAACTGAAGCAAATGCTGAAAATATTGAAAGCATTAAATCAGAACAAAGCTCCTTTGA
 AATATATAGGCAACTATGCAATTTGGATCATCTTGAAGTGGAGCTTTGGCTGTGTTACAAGGTTAG
 AAAGCATAGTGGTCAAAATCTTTAGCAATGAAAGAGGTCAATTTACATAACCCAGCATTGGAAGGAT
 AAGAAAGATCGAGACAGCAGCGTAAGGAATATTGTTTCTGAATTAACAATAATTAAGAGCAGCTTTATC
 ATCCCAACATTGTACGTTATTACAAAACATTTCTGGAAAATGATAGGTTGTACATAGTTATGGAGCTGAT
 AGAAGGAGCCCGCTTGGAGAGCATTTCAGTCTTTGAAGGAAAAACATCACCATTTTACTGAAGAAAGA
 CTATGGAAAATATTTATACAGCTGTGCTTAGCTCTCGATACTTACACAAGGAGAAGAGGATTGTCCATA
 GAGATCTGACACCAAAACAACATTATGTTGGGGATAAGGACAAAGTAACCGTTACTGACTTTGGCCTGGC
 AAAGCAAAAACAAGAAAACAGTAACTCACCTCTGTGGTTGGAACAATCTGTATTCTTGTGTGCAGCAC
 CTCTACCTTCGCTCTCTGCTCTGCTCTGGCCACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226105 representing NM_199347
 Red=Cloning site Green=Tags(s)

MPDQDKKVKTTTEKSTDKQQEITIRDYSDLKRLRCLLNVQSSKQQLPAINFDSAQNSMTKSEPAIRAGGHR
 ARGQWHESTEAVLENFSINYKNERNFSKHPQRKLFQEIFTALVKNRLISREWVNRAPSIHFLRVLICLR
 LLMRDPCYQEILHSLGGIENLAQYMEIVANEYLGYGEEQHTVDKLVNMTYIFQKLAAVKDQREWVTTSGA
 HKTLVNLLGARDTNVLLGSLALASLAESQECREKISELNIVENLLMILHEYDLLSKRLTAELLRLLCAE
 PQVKEQVKLYEGIPVLLSLLHSDHLKLLWSIVWILVQVCEDPETSVEIRIWGGIKQLLHILQGDVRFVSD
 HSSIGSLSSANAAGRIQQLHLSDELSPREIQENTFSLQAACCAALTELVLNDTNAHQVVQENGVYTIAKL
 ILPNKQKNAAKSNLLQCYAFRALRFLFSMERNRPLFKRLFPTDLFEIFIDIGHYVRDISAYEELVSKLNL
 LVEDELKQIAENIESINQNKAPLKYIGNYAILDHLGSGAFGCYKVRKHSGQNLAMKEVNLHNPAGFKD
 KKDRDSSVRNIVSELTIIEQLYHPNIVRYKTFLENDRLYIVMELIEGAPLGEHFFSSLKEKHHHFTEER
 LWKIFIQLCLALRYLHKEKRIVHRDLTPNNIMLGDKDKVTVDFGLAKQKQENSKLTSVVGITILYSCVQH
 LYLRSPPALAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_199347

ORF Size: 2136 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: [NM_199347.4](#)

RefSeq ORF: 2139 bp

Locus ID: 152110

UniProt ID: [Q6ZWH5](#)

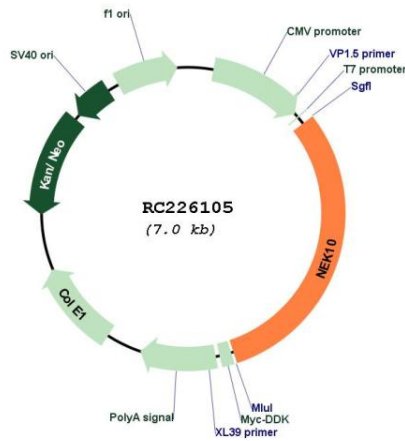
Cytogenetics: 3p24.1

Protein Families: Druggable Genome, Protein Kinase

MW: 81.4 kDa

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 RC226105