

Product datasheet for MR225666

Nek10 (NM_001195229) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nek10 (NM_001195229) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nek10
Synonyms:	Gm282
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225666 representing NM_001195229 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGATCAAGATACAAAGGCGAAGAGCACAGAGAAAACCGCTGATAAGCAACAAGGGACCACCACCA
GGGACTATTCAGATCTTAAAAGACTTCGGTGCCTGTTGAACGTTCAAGCAACAGCAGCTTCCAGC
CATTAACTTTGACAGTGCCAAAATAACATGACAAAGTCTGAGCCAACCATCAGGACAGGGGACATAGA
GCTCGTGGTCAATGGCATGAGTCCACAGAAGCAGTTGAACTTGAAAATTTAGTATAAATATAAGAAATG
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ACTTATATGCAGAGAGTGGGTTAATCGTGCTCCATCCATTTCTGAGAGTGTAAATTTGTCTGAGG
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CTATTGGAAGATGAGCTGAAGCAAATTGCTGAGAATATTGAAAGCATCAATCAGAAGAAAGCGCCCTTGA
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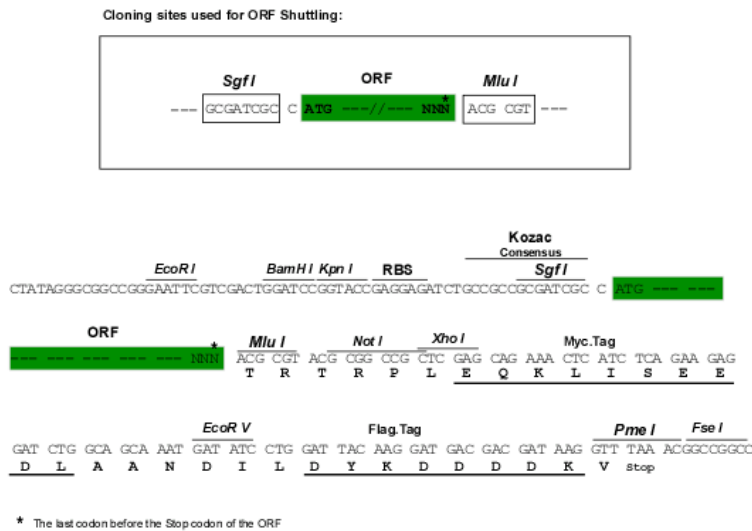
Protein Sequence:

>MR225666 representing NM_001195229
 Red=Cloning site Green=Tags(s)

MPDQDTKAKSTEKTADKQQGTTTRDYSDLKRLRCLLNQSSKQQLPAINFDSAQNMTKSEPTIRTGGHR
 ARGQWHESTEAVELENFSINYKNERNFSKHPQHQLFQEIFTALVRNRLICREWVNRAPSIHFLRVLICLR
 LLMRPDCYQEIHLHKLGGIEDLAQYMEIVANEYLYGAEQHCVDKLVNMTYIFQKLAAVKDQREWVTASGA
 HKTLVSLLGARDTTVLLGALLALASLAESSECREKISELNVVENLLMILHEYDLLSKRLTAELLRLCAE
 PQIKEQVKLYEGIPILLSLLHSDHLKLLWSVIWILVQVCEPETSVEIRIWGGIKQLLHILQGDNRNFVSD
 RSSIGSLSSANAAGRIQQLHLSDELSPGIEENTVSLQAACCAALTELALNDTNAHQVVQENGVYTIAKL
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 LLEDELKQIAENIESINQKAPLKYIGDYAVLDHLGSGAFGCYKVRKRSQNLAMKEVNLHNPAGFKD
 KKDRDSSVKNIVSELTIIKEQLYHPNVVRYKTFLENDRLYIVMELIEGAPLGEHFNSLKEKHHHFSEER
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 LKSEPYGEKADVWAAGCILYQMATLSPFFCSTNMLSLATKIVEAVYEPVPEGIYSEKVTDTIRRCLTPDA
 EARPDIVEVSSMISDVMMKYLDRLLSTSQLALERKLERERRRTRQRYFMEANRNAVTCHHELALLSQETF
 EASLSSSSGAASLSELSESAELPGECHIPCGKEEDRVCEEVLSEDNFQLESVEKDLYSELDDDELVDSD
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 QLHKVIYITQLPPALHHDLRKRRVIERFKKLSFSQSNPCNLKSEIKKLSQGSPEPIELNFLTSDYHSLRH
 SRAANNWSPDPTGSPSSFEVEEGVTYEQMOTVIEEVLEESGYNFTTKRCHSPFWTKSYAKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9099_b03.zip
 Restriction Sites: SgfI-MluI
 Cloning Scheme:



ACCN: NM_001195229

ORF Size: 3345 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_001195229.1](#), [NP_001182158.1](#)

RefSeq Size: 3348 bp

RefSeq ORF: 3348 bp

Locus ID: 674895

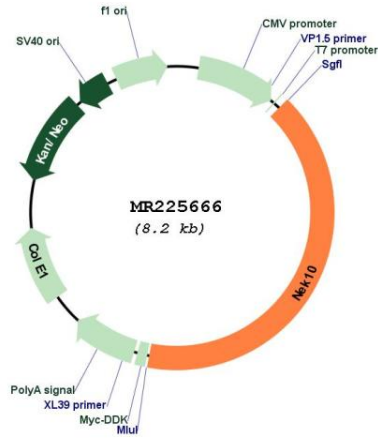
UniProt ID: Q3UGM2

Cytogenetics: 14 A1

MW: 126.7 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 MR225666