

Product datasheet for **RR216687**

Nek2 (NM_053691) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nek2 (NM_053691) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nek2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR216687 representing NM_053691 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGTCCCGGGTGGAGGACTACGAGGTGCTGCACAGCATCGGCACCGGCTCCTACGGCCGCTGTCAGA
AGATTCGGAGGAAGAGCGACGGCAAGATCCTGGTGTGAAAGAAGTACTGACTATGGCTCCATGACAGAGGT
GGAGAAACAAATGCTTGTCTGAAGTGAAGTCTCGTGAGCTGAAACATCCAACATCGTCCGTTAC
TAGCATCGTATTATCGACAGAACCAACACAACCCATACATTGTCATGGAGTACTGTGAGGGCGGGGACC
TGGCTAGTGTCTATTACAAAGGGGACCAAGGATAGACAATACTTAGAGGAAGAGTTTGTCTTCGAGTGAT
GACTCAGTTGACTGCGCCCTGAAAGAGTGTACAGAAAGGAGCGATGGTGGCCACTGTACTTCACCGG
GACCTAAAGCCAGCCAATGTCTTCTGGACAGCAAGCACAATGTCAAGCTTGGGGACTTTGGGCTAGCTA
GAATATTGAATCACGACACAAGTTTTGCAAGACGTTTGTGGCACACCCATTACATGTCTCCTGAGCA
AATAAGCCGCTTGTCTTACAATGAGAAGTCGGACATCTGGTCGCTGGGCTGCCTGCTGTATGAGCTGTGT
GACTAATGCCTCCATTTACAGCTTTCAACCAGAAAGAGTTAGCGGGGAAAATCAGGGAAGGAGGTTCC
GGCGCATCCCCTACCGCTACTCTGATGGCTTGAATGACCTCATCACTCGGATGCTGAATTTAAAGGACTA
CCATCGACCTTCAGTGGAGGAAATTCGGAGAGCCCTTTGATAGCAGACTTGGTTGAGAAAGAGCAAGG
AGAAATCTGGAGAGGAGGGGACGGCGCTCAGGCGAGCCTTCGAAGCTGCAGGACTCCAGCCCTGTGCTGA
GTGAGCTCAAGTTGAAGGAAAGGAGCTGCAGGATCGAGAGCGAGCACTGAGAGCTCGGGAGGACAGCCT
GGAGCAGAAAGAAGTGAAGTGTATTCGAGAGAGACTTGGCAGGACAAACTGGCCAGAGCCGAGAGT
CTGCTGAAGAAGTACAGCCTGCTGAAGGAGCACAGGCTCCTGTGTCTGGCTGGCGGCTCAGAACTTGATC
TCCCATCTTCAGCACTGAAGAAGAAGTTTCAATTCATGGGGAGAGCAAGAGAAACCCGAAGGAGTGA
GAATTCGAGAGCCAGCTCGCCAAGTCCAAGTGCAGGGACCTGAAGAAGAGGCTTCATGCTGCCAGCTG
CGTGCTCAAGCCCTGTCTGATATTGAGAAGAAGTACCAGCTAAAGAGCAGGCAGATCCTGGCGATCGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216687 representing NM_053691
 Red=Cloning site Green=Tags(s)

MPSRVEDYEVLHSIGTGSYGRCQKIRRKSDGKILVWKELDYGSMTEVEKQMLVSEVNLLRELKHPNIVRY
 YDRIIDRTNTTLYIVMEYCEGGDLASVITKGTDRQYLEEEFVLRVMTQLTLALKECHRRSDGGHTVLHR
 DLKPANVFLDSKHNVKLGDFGLARILNHDTSFAKTFVGTPTYMSPEQISRLSYNEKSDIWSLGCLLYELC
 ALMPPFTAFNQKELAGKIREGRFRRIPIRYSDGLNDLITRMLNLKDYHRPSVEEILESPLIADLVAEQR
 RNLERRGRRSGEPSKLQDSSPVLSELKLERQLQDRERLRAREDSLEQKERELCIRERLAEDKLARAES
 LLKNYSLLKEHRLCLAGGSELDLPSSALKKKVHFHGESKENTARSENSESQLAKSKCRDLKKRLHAAQL
 RAQALSDIEKNYQLKSRQILGMR

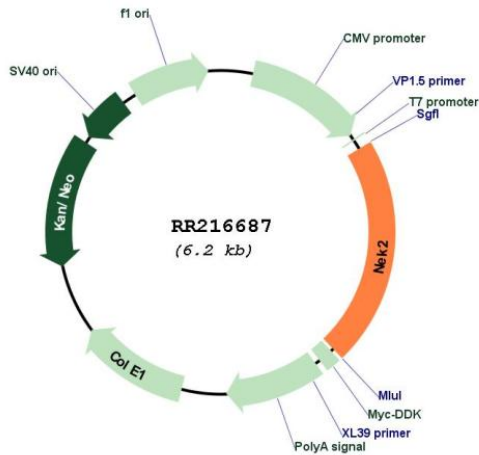
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_053691
ORF Size:	1329 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:	<ol style="list-style-type: none">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_053691.2 , NP_446143.1
RefSeq Size:	3122 bp
RefSeq ORF:	1332 bp
Locus ID:	114482
Cytogenetics:	13q27
MW:	51.3 kDa
Gene Summary:	mouse homolog displays cell cycle associated changes in nuclear and cytoplasmic localization; may act to regulate mitosis [RGD, Feb 2006]