

Product datasheet for **RR208517**

Nek8 (NM_001105804) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Nek8 (NM_001105804) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Nek8 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RR208517 representing NM_001105804
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAAGTACGAGCGGATCCGAGTGGTGGGAAGAGGTGCCTTCGGATTGTGCACCTGTGCCTTCGAA
 AGGCTGACCAGAAGCTGGTGATCATCAAGCAGATCCCAGTGGAACAGATGACCAAAGAGGAGAGGCAGGC
 GGCACAGAATGAGTGCCAGGTGCTCAAACCTGCTCAACCACCCCAACGTCATTGAGTACTACGAGAACTTC
 CTGGAGGACAAGGCCCTCATGATCGCCATGGAATATGCACCAGGTGGCACCCTGGCTGAGTTCATCCAGA
 AGCGCTGCAACTCCCTGCTGGAGGAGGAGACGATCCTTCACTTCTTTGTGCAGATCTGCTTGGCTGCA
 TCATGTGCACACACACCTCATCTGCATCGGGACCTCAAGACCCAGAACATCCTTCTTGACAAGCACCGC
 ATGGTCGTCGAAGATCGGGGACTTTGGCATCTCTAAGATCCTTAGCAGCAAGAGCAAGGCCTACACGGTGG
 TGGTACTCCATGCTACATCTCCCCTGAGCTATGTGAGGGCAAGCCCTACAACCAGAAGAGTGACATCTG
 GGCTCTGGGCTGTGTCTTATATGAGCTTCCAGTCTCAAGAGGGCCTTTGAGGCAGCGAAGTTCGCCGCC
 CTGGTGCTGAAGATCATGAGCGGCACCTTTCACCCATCTCTGACCGTTATAGTCCCTGAGCTACGCCAGC
 TTGTCTGAGTCTGCTCAGCCTGGAACCTGCACAGCGGCCACCCCTCAGCCACATCATGGCTCAGCCCT
 CTGCATCCGGGCCCTACTCAACATCCACACCGATGTGGGCAGCGTCCGCATGCGGAGGGCAGAGAAGTGC
 CTGACCCAGGAACACCTATGGCCCCGGGCAGCACAGGGAGCAGGGCCACCAGTGCCCGATGCAGGGGTG
 TCCCCGGGGACCTGTGAGACCGGCCATCCCAGCCCTCTGTCTTCCGTCTACGCTTGGGGTGGTGGCCT
 TAGCATTCCCCTGAGGTTGCCGATGCCAACACGGAGGTGGTCCAGGTGGCCGACGGGCGCACACAGAAG
 GCTGGCGTTACACGCTCAGGACGCCTCATTCTGTGGGAGGCCACCCCTGGGAAGTGGAGGCGGCACAC
 TCCTTCCGGGGCAGTGGAGCTGCCTCAGCCCCAGTTTGTCTCTCGTTTCTGGAGGGCCAGTCAAGCGT
 GACCATCAAGCATGTGGCTGCGGGACCTGTTCACTGCTTGTGACGGACAGAGGCATCATCATGACT
 TTTGGCAGCGGCAGCAACGGGTGTTTAGGTCACGGCAGCCTGACTGACATCAGCCAGCCACCATTGTAG
 AGGCCCTGCTGGGGTATGAGATGGTGCAGGTGGCCTGTGGAGCCTCTCATGTGCTGGCCCTGTCCGAGA
 TGGAGAGTTATTTGCCTGGGGCCGAGGAGATGGCGGTAGGCTGGGACTAGGCACCAGGGAGTCCCATAAC
 TGCCCTCAGCAGGTGCCTATGGTCCCAGGACAGGAAGCTCAGAGAGTTGTCTGTGGTATTGACTGTTCCA
 TGATCCTCACCTACCAGGACGGTCTGGCCTGTGGAAGTAACAGGTTCAACAAGCTAGGCTTGGACTG
 CCTGTCCCTGGAGGAGGAGCCTGTTCCCACCAGCAAGTGGAGGAGGCCCTGAGCTTACGCGGCTGGGT
 TCTGCACCTCTGGACCGGAGACCTGCTGTGCGTGGACCTTGGCACTGCTCATTAGCTGCTGTGACTG
 CTTCCGGGGCCTGCTATACTTTTGGCAGCAATCAGCATGGCAATTGGGCACCAGTTCGCCCGGGTCCAG
 CAGGGCACCTGTGGGTCCAAGGCCTAGAGGGCATCAAGATGGTGTGATGGTGGCCTGTGGGGATGCCTTC
 ACTGTGGCCATTGGGGCAGAGGGGGAAGTGTATTCTTGGGGCAAAGGAGCCCGGGTGCCTGGGAAGGA
 GGGATGAGGATGCCGGACTCCCTAGACCAGTGCAGCTGGATGAGACTCATCCTTACACGGTGACATCAGT
 GTCCTGCTGCCATGGGAACACTCTTTGGCTGTTGATCAGTACAGATGAACAGTTCACCC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR208517 representing NM_001105804
Red=Cloning site Green=Tags(s)

MEKYERIRVVGRGAFGIVHLCLRKADQKLVIKQIPVEQMTKEERQAAQNECQVLKLLNHPNVIEYYENF
 LEDKALMIAMEYAPGGTLAEFIQKRCNSLLEETILHFFVQILLALHHVHHLILHRDLKTQNILLDKHR
 MVVKIGDFGISKILSSKSKAYTVVGTTPCYISPELCEGKPNQKSDI WALGCVLYELASLKRAFEANLPA
 LVLKIMSGTFAPISDRYSPELRQLVLSLLSLEPAQRPPPLSHIMAQPLCIRALLNIHTDVGSVRMRAEK
 LTPGTPMAPGSTGRATSARCRGVPRGPVPAIPPLSSVYAWGGGLSIPLRLPMPNTEVVQVAAGRTQK
 AGVTRSGRLILWEAPPLGTGGGTL LPGA V ELPQPQVSRFLEGGQSGVTIKHVACDGLFTA CLTDRGIIMT
 FGSNGSLGHGSLTDISQPTIVEALLGYEMVQVACGASHVLALSADGELFAWGRDGGRLGLGTRESHN
 CPQQVPMVPGQEAQRVVCIDCSMILTSPGRVLCGSNRFNKLGLDCLSEEEPVPHQVEEALSF TPLG
 SAPLDRETL LCVDLGTAHSAAVTASGACYTFGSNQHGQLGTSSRRVSRAPCRVQGLEGIKMMVACGD AF
 TVAIGAEGEVYSWGKGARGRLGRRDEDAGLPRPVQLDETHPYTVT SVSCCHGNTLLAVRSVTDEPVPP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001105804

ORF Size: 2094 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_001105804.1](#), [NP_001099274.1](#)

RefSeq Size: 2626 bp

RefSeq ORF: 2097 bp

Locus ID: 287473

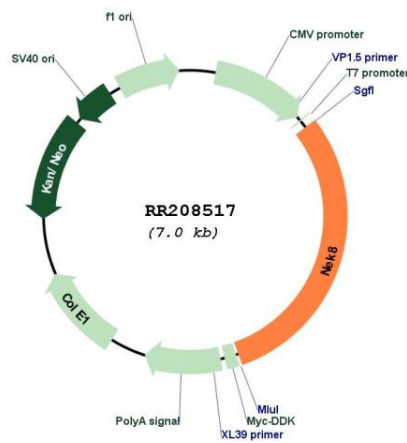
UniProt ID: [D3ZGQ5](#)

Cytogenetics: 10q25

MW: 75.3 kDa

Gene Summary: Required for renal tubular integrity. May regulate local cytoskeletal structure in kidney tubule epithelial cells. May regulate ciliary biogenesis through targeting of proteins to the cilia. Plays a role in organogenesis and is involved in the regulation of the Hippo signaling pathway (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR208517