

## Product datasheet for **RN208517**

### **Nek8 (NM\_001105804) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nek8 (NM_001105804) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nek8
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN208517 representing NM\_001105804  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGAAGTACGAGCGGATCCGAGTGGTGGGAAGAGGTGCCTTCGGATTGTGCACCTGTGCCTTCGAA  
 AGGCTGACCAGAAGCTGGTGATCATCAAGCAGATCCCAGTGGAACAGATGACCAAAGAGGAGAGGCAGGC  
 GGCACAGAATGAGTGCCAGGTGCTCAAACCTGCTCAACCACCCCAACGTCATTGAGTACTACGAGAACTTC  
 CTGGAGGACAAGGCCCTCATGATCGCCATGGAATATGCACCAGGTGGCACCCTGGCTGAGTTCATCCAGA  
 AGCGCTGCAACTCCCTGCTGGAGGAGGAGACGATCCTTCACTTCTTTGTGCAGATCTGCTTGGCTGCA  
 TCATGTGCACACACCTCATCTGCATCGGGACCTCAAGACCCAGAACATCCTTCTTGACAAGCACCGC  
 ATGGTCGTAAGATCGGGGACTTTGGCATCTCTAAGATCCTTAGCAGCAAGAGCAAGGCCTACACGGTGG  
 TGGTACTCCATGCTACATCTCCCCTGAGCTATGTGAGGGCAAGCCCTACAACCAGAAGAGTGACATCTG  
 GGCTCTGGGCTGTGCTTATATGAGCTTCCAGTCTCAAGAGGGCCTTTGAGGCAGCGAAGTTCGCCGCC  
 CTGGTGCTGAAGATCATGAGCGGCACCTTTCACCCATCTCTGACCGTTATAGTCCCTGAGCTACGCCAGC  
 TTGTCCTGAGTCTGCTCAGCCTGGAACCTGCACAGCGGCCACCCCTCAGCCACATCATGGCTCAGCCCT  
 CTGCATCCGGGCCCTACTCAACATCCACACCGATGTGGGCAGCGTCCGCATGCGGAGGGCAGAGAAGTGC  
 CTGACCCAGGAACACCTATGGCCCCGGGCAGCACAGGGAGCAGGGCCACCAGTGCCCGATGCAGGGGTG  
 TCCCCGGGGACCTGTGAGACCGGCCATCCCAGCCCTCTGTCTTCCGTCTACGCTTGGGGTGGTGGCCT  
 TAGCATTCCCCTGAGGTTGCCGATGCCAACACGGAGGTGGTCCAGGTGGCCGACGGGCGCACACAGAAG  
 GCTGGCGTTACACGCTCAGGACGCCTCATTCTGTGGGAGGCCACCCCTGGGAAGTGGAGGCGGCACAC  
 TCCTTCCGGGGCAGTGGAGCTGCCTCAGCCCCAGTTTGTCTCTCGTTTTCTGGAGGGCCAGTCAAGCGT  
 GACCATCAAGCATGTGGCCTGCGGGGACCTGTTCACTGCTTGTGACGGACAGAGGCATCATCATGACT  
 TTTGGCAGCGGCAGCAACGGGTGTTTAGGTACCGCAGCCTGACTGACATCAGCCAGCCACCATTGTAG  
 AGGCCCTGCTGGGGTATGAGATGGTGCAGGTGGCCTGTGGAGCCTCATGTGCTGGCCCTGTCCGAGA  
 TGGAGAGTTATTTGCCTGGGGCCGAGGAGATGGCGGTAGGCTGGGACTAGGCACCAGGGAGTCCCATAAC  
 TGCCCTCAGCAGGTGCCTATGGTCCCAGGACAGGAAGCTCAGAGAGTTGTCTGTGGTATTGACTGTTCCA  
 TGATCCTCACCTACCAGGCAGGTCTGGCCTGTGGAAGTAACAGGTTCAACAAGTAGGCTTGGACTG  
 CCTGTCCCTGGAGGAGGACCTGTTCCCACCAGCAAGTGGAGGAGGCCCTGAGCTTACGCCGCTGGGT  
 TCTGCACCTCTGGACCGGAGACCTGCTGTGCGTGGACCTTGGCACTGCTCATTAGCTGCTGTGACTG  
 CTTCGGGGCCTGCTATACTTTTGGCAGCAATCAGCATGGCAATTGGGCACCAGTTCGCCCGGGTCCAG  
 CAGGGCACCTGTGGGTCCAAGGCCTAGAGGGCATCAAGATGGTGTGATGGTGGCCTGTGGGGATGCCTTC  
 ACTGTGGCCATTGGGGCAGAGGGGGAAGTGTATTCTTGGGGCAAAGGAGCCCGGGTGCCTGGGAAGGA  
 GGGATGAGGATGCCGGACTCCCTAGACCAGTGCAGCTGGATGAGACTCATCCTTACACGGTGACATCAGT  
 GTCCTGCTGCCATGGGAACACTCTTTGGCTGTTGATCAGTACAGATGAACAGTTCACCCCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001105804
- Insert Size:** 2097 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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

**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]