

## Product datasheet for **RN200911**

### **Nuak1 (NM\_001106774) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nuak1 (NM_001106774) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nuak1
Synonyms:	RGD1309956
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN200911 representing NM\_001106774  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAAGGGGCGGCAGTGTCCGCGGCAGGGGATGGCCCTGCTGTGGAGACGGGTTTGCCCGCTCTCCGC  
 GGGAGGTAGTGGCCGGGCGACTGCTGCTCCAGTGAACCCAGGAAGCCGCACGGGTGAAGCGACATCA  
 CCACAAACACAACCTTGAAGCATCGCTATGAGCTGCAAGAGACCCTGGGCAAAGGTACCTACGGCAAAGTC  
 AAGAGAGCCACGGAGAGGTTTTTCAGGCCGAGTGGTTGCTATAAAATCCATCCGTAAGGACAAAATCAAGG  
 ATGAGCTAGACATGGTTCACATCAGACGAGAGATTGAGATTATGTCATCCCTCAACCATCCTCATATCAT  
 CAGTATTTATGAAGTGGTTGAGAACAAGATAAGATTGTGATCATCATGGAATATGCCAGCAAAGGAGAG  
 CTGTATGACTACATCAGTGAGCGGAGACGCCTCAGCGAGAGGGAGACCAGGCCTTCTCCGGCAGATCG  
 TGTCTGCCGTGCATTACTGTCACAAGAATGGCGTGGTCCATCGGGACTTGAAGCTGGAGAACATACTGCT  
 TGATGACAACGTAAATATTAAGATCGCTGACTTTGGGCTTCCAACCTGTACCAGAAGGACAAGTCTTG  
 CAAACATTTTGTGGGAGCCCACTCTATGCATCACCCGAGATTGTCAATGGCAGGCCCTACCGGGGGCCAG  
 AGGTGGACAGCTGGGCCCTGGGCGTCTTGTCTTACACTCTCATTTATGGAACAATGCCCTTCGATGGCTT  
 TGATCACAAAAACCTCATCCGACAGATCAGCAGTGGAGAGTACCGGGAGCCACACAACCCTCAGATGCT  
 CGGGGACTCATCCGGTGGATGCTGATGGTGAATCCTGACCGCCGGGCCACCATCGAGGACATCGCCAACC  
 ACTGGTGGGTGAAGTGGGCTACAAGAGCAGCGTCTGTGACTGCGATGCCCTTCCCGACTCCGAGTCTCC  
 GCTCTTGGCTCGGATCATTGATTGGCATCACCGCTCCACCGGGCTGCAGGCTGAGGCTGACGCCAAGATG  
 AAGCCAAGCCCGGGCCCTCGGAGTTGTGTTGGAGCGCAACGGTCACTGAAGAAGTCCAAGAAAGAGA  
 ACGACTTCCCCAGTCTGGCCAGGACTCATTGCCTGAAAGCCCATCCAAGCTGAGTTCGAAGAGGCCAA  
 GGGCATCCTGAAGAAGCGGAGCAACAGTGAACATCGCTCCACAGCACTGGCTTCATCGAAGGCATCGTG  
 GGCCCCGCTTACCATCCCTTTCAAATGGAGCAAGACTTGTGCCGACTGCCATCCCCCTCCCCGGCT  
 CCCCCGAGGCGCAGGGAAGCTCAGGGAAGCTCAGCCTCAAACAGTCTGCCACCATGCCAAAGAAAGGCAT  
 CTTGAAAAGACCCAGCAGAGAGAATCTGGTTACTACTCGTCCCCAGAGCGCAGCGAGTCTCAGAGCTG  
 CTGGACAGTAACAATGTGATCATCAGCAGTGGCTCTCTCCCCCTCCCCAGACCCAGCCAGGGGAACGT  
 CCCACAGCCTGCTCTGCCGGAGGAAGGGCATCTTGAACACAGCAGCAGGTAAGTCCGGATGGTGCCACAGA  
 CCCTGCCCTCACCGCCCCGAAATACCCACACTGGAATCCTTGTGCTCCCGGTGCCCTCCGATGGC  
 ATCTCTCGGAGCTACAGTCGCCCCGTCAGTATCATCAGTGACGACAGCGTCTGTCCAGCGACTCTTTCCG  
 ACTTGTTAGATCTCCAGGAGAATCGGCCGCCCGCCAGCGCATCCGCAGCTGCGTCTCTGCGAAAACCTT  
 CCTCCAGTTCAGGACTTTGAGACTCCCCACAACCGGCCCGGCCCAAGTACCTGAAGCGGTACCGGAAC  
 CGGCTGGCAGACAGTAGCTTCTCCCTTCTGCTGATATGGACGACGTGACTCAGGTGATAAGAAGGCTC  
 TGGAGATCTGCAGCAAGCTCAAC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2546\\_a08.zip](https://cdn.origene.com/chromatograms/ja2546_a08.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001106774

**Insert Size:** 1986 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_001106774.1](#), [NP\\_001100244.1](#)

**RefSeq Size:** 2864 bp

**RefSeq ORF:** 1986 bp

**Locus ID:** 299694

**Cytogenetics:** 7q13