

## Product datasheet for **RN212466**

### **Nuak2 (NM\_001007617) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nuak2 (NM_001007617) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nuak2
Synonyms:	1200013b22rik; Snark; UV126
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >RN212466 representing NM\_001007617  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGTCGGTGGCCTTACACCGCGCGGGAACCTGGCTCCCTCGGCCTCCGCCCTGGCCACGGAGAGCG  
 CCCGGCCGCTGGCGGACCGGCTCATCAAGTCGCCCAAACCTCTGATGAAGAAGCAGGCGGTGAAGCGGCA  
 CCATCACAAACACAACCTGAGGCACCGCTACGAGTTCCTGGAGACCCTGGGCAAGGGCACCTACGGGAAG  
 GTGAAGAAAGCACGAGAGAGCTCGGACGCCTGGTGGCCATCAAGTCTATCAGGAAGGACAAAATCAAAG  
 ATGAGCAGGATCTGTTGCACATAAGGAGGGAGATCGAGATCATGTCTTCACTCAACCACCCCCACATCAT  
 TGCCATCCATGAAGTGTGAGAACAGCAGCAAGATTGTGATTGTCATGGAGTACGCCAGCCGAGGCGAT  
 CTGTACGATTACATCAGTGAAGCGCCACGGCTGAATGAGCGGGACGCCAGGCATTTCTCCGACAGATCG  
 TGTCGCCCTGCACTACTGCCACCAGAACGGGATTGTTACCGGGACCTCAAGCTGGAGAACATCCTTCT  
 AGATGCCAGTGGCAACATCAAGATTGCTGATTTTGGCCTCTCAAACCTGTATCACAAAGGCAAGTTCCTC  
 CAGACGTTCTGTGGGAGCCCTCTATGCCTCACCTGAGATCGTCAACGGGAAGCCCTATGTGGGCCAG  
 AGGTGGACAGCTGGTCTCTGGGCGTTCTTCTGTACATCCTGGTGCATGGCACCATGCCCTTTGACGGGCA  
 GGATCATAAAAACCTGGTGAACAAATCAGTAGCGGGGCTTACCAGAGCCGTGCAAACCGTCTGATGCC  
 TGTGGCCTGATCCGGTGGCTGTTAATGGTGAATCCCATCCGTCGGGCCACTCTGGAGGATGTAGCCAGTC  
 ATGGTGGGTCAACTGGGGTTACAGCACCCGAATTGGGGAACAGGAAGCTCTGCGAGAGGGTGGGCACCC  
 TAGCGGTGACTCTGGCCGGGCTCTATGGCGGACTGGTTACGTCGCTCCTCCGCCCTCCTGGAGAAT  
 GGAGCCAAAGTGTAGCTTCTCAAGCAGCATGTGCCGGGAGGTGGAAGCACGGGACCGGGGCTGGAGC  
 GGCAACATTCTTAAGAAGTCCCGCAAGGAGAATGACATGGCTCAGACTCTGCAGAATGACCCAGCTGA  
 AGATACTTCTCTCGCCCTGGCAAGAAGCAGCCTCAAGCTTCCGAAAGGTATCCTCAAGAAAAAGGCCTCT  
 CCCTCATCGGGGAGGTACAGGAGGGCCCTCAGGAACTCAGACCAGTGTCCAATACCCAGGGCAGCCTG  
 TCCCTGTATAACCCCTGCTCCCAAGGAAGGGCATTCTTAAGAAGTCTCGGACGCGTGAATCTGGTTACTA  
 CTCCTCTCCAGAGCCAGTGAGTCTGGGAACTCTTAGACGCAGGTGATGTGTTGTGAGTGGGGACCCC  
 ATGGAGCAGAAGTCTCCACAAGTTCAGGGCGCCTCCATCGCAAGGGCATCCTCAAACCTCAATGGCAAGT  
 TTTCCCGCACAGCCTTAGAAGGCACTGCCCTAGCACCTTTGGCTCCCTAGACCAACTGGCCTCCCTCA  
 TCCTACAGCCCGGCCAGCCGTCCTCGGGAGCTGTGAGTGAGGACAGCATCCTGTCTCCGAGTCTTT  
 GACCAATTGGACTTGCCCGAGCGGCTTCCCGAAACCCACTGAGGGGCTGTGTGTCTGTGGACAACCTGA  
 GGAGGCTTGAGCAGCCTCCCTCAGAAGGCTAAACGATGGTGGCAGGAATCCTTGGGGGATAGCTGCTT  
 TTCTCTGACAGACTGCCAAGAGGTGACAGCAGCCTACAGACAAGCCCTAGGAATCTGCTCGAAGCTCAG  
 TGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001007617

**Insert Size:** 1893 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\\_001007617.1](#), [NP\\_001007618.1](#)

**RefSeq Size:** 2900 bp

**RefSeq ORF:** 1893 bp

**Locus ID:** 289419

**UniProt ID:** [Q66HE5](#)

**Cytogenetics:** 13q13

**Gene Summary:** Stress-activated kinase involved in tolerance to glucose starvation. Induces cell-cell detachment by increasing F-actin conversion to G-actin. Expression is induced by CD95 or TNF-alpha, via NF-kappa-B. Protects cells from CD95-mediated apoptosis and is required for the increased motility and invasiveness of CD95-activated tumor cells. Able to phosphorylate 'Ser-464' of LATS1 (By similarity).[UniProtKB/Swiss-Prot Function]