

Product datasheet for **MC220016**

Nuak2 (NM_001195025) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nuak2 (NM_001195025) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nuak2
Synonyms:	1200013B22Rik; mKIAA0537; Omphk2; Snark
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220016 representing NM_001195025
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGTCGGTGGCCTTACTCCAGCGCCGAGCCAGGCTCCCTCGGCCTCCGCCCTGGCCTCGGAGAGCG
 CCCGGCCGCTGGCGGACGGGCTCATCAAGTCGCCTAAACCTCTGATGAAGAAGCAGGCGGTGAAGCGGCA
 CCATCACAAACACAACCTGCGGCACCGCTACGAGTTCCTGGAGACGCTGGGCAAGGGCACCTACGGGAAG
 GTGAAGAAGGCACGAGAGAGCTCGGGCGTCTGGTGGCCATCAAGTCCATCAGGAAAGACAAAATCAAAG
 ATGAGCAGGATCTGCTGCACATACGGAGGGAGATTGAGATCATGTCTTCACTCAACCACCCCCACATCAT
 TGCCATCCATGAAGTGGCAGATCAGCCTTAGTGACTGTGTTGAGAATAGCAGCAAGATTGTGATTGTC
 ATGGAGTATGCCAGCCGAGGCGATCTGTATGATTACATCAGTGAGCGGCCACGGTGAAGTGAAGCGGGACG
 CCAGGCATTTCTCCGACAGATCGTGTCTGCCCTGCACTACTGCCACCAGAACGGGATCGTTCACCGAGA
 TCTCAAGCTGGAACATCCTTCTAGATGCCAATGGAACATCAAGATTGCTGACTTTGGCCTCTCCAAC
 CTGTACCACAAAGGCAAGTTCCTCCAGACGTTCTGTGGGAGCCCTCTCTACGCCTCGCCTGAGATAGTCA
 ACGGGAAGCCCTATGTGGGCCAGAGGTGGACAGCTGGTCTCTGGGCCTTCTCTGTACATCCTGGTGCA
 TGGCACCATGCCCTTTGACGGGCAGGATCATAAAACACTGGTGAAGCAAATCAGTAACGGGGCTTACCGT
 GAGCCGCCAAGCCGTCCGATGCCTGTGGCCTGATCCGGTGGCTGTTAATGGTGAACCCACCCGTCGGG
 CCACACTGGAGGATGTAGCCAGTCATTGGTGGGTCAACTGGGGTTACACCACCGGAGTCGGGGAACAGGA
 AGCCCTGCGTGAGGGTGGCACCCCTAGTGGTGACTTTGGCCGGCCCTCCATGGCGGACTGGTTACGTCGC
 TCCTCGCGCCCTCTCTGGAGAATGGAGCAAGGTGTGCAGCTTCTTCAAGCAGCACGTGCCGGGAGGTG
 GAAGCAGTGTACCTGGGCTGGAGCGCAACATTCTTAAAGAAGTCCCGAAAGGAGAATGACATGGCTCA
 AAATCTGCAAGGTGACCCGGCTGAGGATACCTCTTCTCGCCCTGGCAAGAGCAGCCTTAAGCTTCCGAAA
 GGCATTCTCAAGAAAAGTCTCTACCTCGTCAGGGGAGGTACAGGAGGACCCTCAGGAACTCAGACCGG
 TGCTGATACTCCAGGGCAGCCTGTCCCTGCTGTATCCCTGCTCCCAAGGAAAGGCATCCTTAAGAAGTC
 TCGACAGCGTGAATCTGGTTACTACTCCTCTCCAGAGCCAGCGAGTCTGGGAACTCTTAGACGCCAGT
 GATGTGTTTGTGAGTGGGACCCCGTGGAGCAGAAGTCTCCACAGGCTTCAGGGCTCCTCTCCACCGCA
 AGGGCATTCTCAAACCAATGGCAAGTTCTCCCGCACAGCCTTAGAAGGCACTACCCTAGCACCTTTGG
 CTCCTGGACCAACTGGCCTCTCCATCTGCAGCCCGCCAGCCGCCCTCAGGGGTGTGAGTGAG
 GACAGCATCTGTCTCCGAGTCTTTGACCAATTGGACTTGCCGAACGTCTTCCGAAACCCACTGA
 GGGGCTGTGTGTCTGTGGACAACCTGAGGGGGTGTGAGCAGCCTCCCTCAGAAGGTCTGAAGCGATGGTG
 GCAGGAATCCTTGGGGATAGCTGCTTTTCTCTGACAGACTGCCAAGAGGTGACTGCAGCCTACAGACAA
 GCCCTAGGAATCTGCTCAAAGCTCAGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001195025
- Insert Size:** 1920 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_001195025.1](#), [NP_001181954.1](#)

RefSeq Size: 3132 bp

RefSeq ORF: 1920 bp

Locus ID: 74137

UniProt ID: [Q8BZN4](#)

Cytogenetics: 1 E4

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]
Transcript Variant: This variant (A) represents the longer transcript and encodes the longer isoform (A).