

Product datasheet for **MC219923**

Nuak2 (NM_028778) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nuak2 (NM_028778) 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: >MC219923 representing NM_028778
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTCGGTGGCCTTACTCCAGCGCCGAGCCAGGCTCCCTCGGCCTCCGCCCTGGCCTCGGAGAGCG
 CCCGGCCGCTGGCGGACGGGCTCATCAAGTCGCCTAAACCTCTGATGAAGAAGCAGGCGGTGAAGCGGCA
 CCATCACAAACACAACCTGCGGCACCGCTACGAGTTCCTGGAGACGCTGGGCAAGGGCACCTACGGGAAG
 GTGAAGAAGGCACGAGAGAGCTCGGGCGTCTGGTGGCCATCAAGTCCATCAGGAAAGACAAAATCAAAG
 ATGAGCAGGATCTGCTGCACATACGGAGGGAGATTGAGATCATGTCTTCACTCAACCACCCCCACATCAT
 TGCCATCCATGAAGTGTGAGAATAGCAGCAAGATTGTGATTGTCATGGAGTATGCCAGCCGAGGCGAT
 CTGTATGATTACATCAGTGAGCGGCCACGGCTGAGTGAGCGGGACGCCAGGCATTTCTCCGACAGATCG
 TGTCTGCCCTGCACTACTGCCACCAGAACGGGATCGTTCACCGAGATCTCAAGCTGGAAAACATCCTTCT
 AGATGCCAATGGAAACATCAAGATTGCTGACTTTGGCCTCTCAAACCTGTACCACAAAGGCAAGTTCCTC
 CAGACGTTCTGTGGGAGCCCTCTCTACGCCTCGCCTGAGATAGTCAACGGGAAGCCCTATGTGGGCCAG
 AGGTGGACAGCTGGTCTCTGGGCGTTCTCTGTACATCCTGGTGCATGGCACCATGCCCTTTGACGGGCA
 GGATCATAAAACACTGGTGAAGCAAATCAGTAACGGGGCTTACCGTGAGCCGCCAAGCCGTCCGATGCC
 TGTGGCCTGATCCGGTGGCTGTTAATGGTGAACCCACCCGTCGGGCCACACTGGAGGATGTAGCCAGTC
 ATGGTGGGTCAACTGGGGTTACACCACCGGAGTCGGGGAACAGGAAGCCCTGCGTGAGGGTGGGACCC
 TAGTGGTGACTTTGGCCGGGCTCCATGGCGGACTGGTTACGTCGCTCCTCGGCCCCCTCCTGGAGAAT
 GGAGCCAAAGTGTGCAGCTTCTCAAGCAGCACGTGCCGGGAGGTGGAAGCACTGTACCTGGGCTGGAGC
 GGCAACATTCTCTTAAGAAGTCCCGAAAGGAGAATGACATGGCTCAAAATCTGCAAGGTGACCCGGCTGA
 GGATACCTCTTCTCGCCCTGGCAAGAGCAGCCTTAAGCTTCCGAAAGGCATTCTCAAGAAAAAGTCTCT
 ACCTCGTCAGGGGAGGTACAGGAGGACCCTCAGGAACTCAGACCGGTGCCTGATACTCCAGGGCAGCCTG
 TCCCTGTGTATCCCTGTCTCCAAGGAAAGGCATCCTTAAGAAGTCTCGACAGCGTGAATCTGGTACTA
 CTCCTCTCCAGAGCCAGCGAGTCTGGGAACTCTTAGACGCCAGTGATGTGTTGTGAGTGGGACCCC
 GTGGAGCAGAAGTCTCCACAGGCTTACGGGCTCCTCCTCCACCGCAAGGGCATTCTCAAACCTCAATGGCA
 AGTTCTCCCGCACAGCCTTAGAAGGCACTACCCCTAGCACCTTTGGCTCCTGGACCAACTGGCCTCCTC
 CCATCCTGCAGCCCGGCCAGCCGCCCTCAGGGGCTGTGAGTGAGGACAGCATCTGTCTCCGAGTCC
 TTTGACCAATTGACTTGCTGAACGTCTCCCGAAACCCCACTGAGGGGCTGTGTGTCTGTGGACAACC
 TGAGGGGGCTTGAGCAGCCTCCCTCAGAAGGTCTGAAGCGATGGTGGCAGGAATCCTTGGGGGATAGCTG
 CTTTTCTCTGACAGACTGCCAAGAGGTGACTGCAGCCTACAGACAAGCCCTAGGAATCTGCTCAAAGCTC
 AGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_028778

Insert Size: 1896 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_028778.4](#), [NP_083054.1](#)

RefSeq Size: 3108 bp

RefSeq ORF: 1896 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 (B) lacks an in-frame exon in the coding region, compared to variant A. This results in a shorter protein (isoform B), compared to isoform A.