

Product datasheet for **MR209612**

Nuak2 (NM_028778) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Nuak2 (NM_028778) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Nuak2 |
| Synonyms: | 1200013B22Rik; mKIAA0537; Omphk2; Snark |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide
Sequence:

>MR209612 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGTCGGTGGCCTTACTCCAGCGCCGAGCCAGGCTCCCTCGGCCTCCGCCCTGGCCTCGGAGAGCG
CCCGGCCCTGGCGGACGGGCTCATCAAGTCGCCTAAACCTCTGATGAAGAAGCAGGCGGTGAAGCGGCA
CCATCACAAACACAACCTGCGGCACCGCTACGAGTTCCTGGAGACCCTGGGCAAGGGCACCTACGGGAAG
GTGAAGAAGGCACGAGAGAGCTCGGGCGTCTGGTGGCCATCAAGTCAATCAGGAAAGACAAAATCAAAG
ATGAGCAGGATCTGCTGCACATACGGAGGGAGATTGAGATCATGTCTTCACTCAACCACCCCCACATCAT
TGCCATCCATGAAGTGTGAGAATAGCAGCAAGATTGTGATTGTCATGGAGTATGCCAGCCGAGGCGAT
CTGTACGATTACATCAGTGAGCGGCCACGGCTGAGTGAGCGGGACGCCAGGCATTTCTCCGACAGATCG
TGCTGCCCTGCACTACTGCCACCAGAACGGGATCGTTACAGAGATCTCAAGCTGGAAAACATCCTTCT
AGATGCCAATGGAAACATCAAGATTGCTGACTTTGGCCTCTCAAACCTGTACCACAAAGGCAAGTTCCTC
CAGACGTTCTGTGGGAGCCCTCTCTACGCCTCGCCTGAGATAGTCAACGGGAAGCCCTATGTGGGCCAG
AGGTGGACAGCTGGTCTCTGGGCGTTCTCTGTACATCCTGGTGCATGGCACCATGCCCTTTGACGGGCA
GGATCATAAAAACACTGGTGAAGCAAATCAGTAACGGGGCTTACCGTGAGCCGCCAAGCCGTCCGATGCC
TGTGGCCTGATCCGGTGGCTGTTAATGGTGAACCCACCCGTGGGCCACACTGGAGGATGTAGCCAGTC
ATTGGTGGGTCAACTGGGGTTACACCACCGGAGTCGGGGAACAGGAAGCCCTGCGTGAGGGTGGGACCC
TAGTGGTACTCTGGCCGGGCTCCATGGCGGACTGGTTACGTCGCTCCTCGGCCCCCTCCTGGAGAAT
GGACCAAGGTGTGACGTTCTTCAAGCAGCACGTGCCGGGAGGTGGAAGCACCGTACCTGGCCTGGAGC
GGCAACATTTCTTAAGAAGTCCCGAAAGGAGAATGACATGGCTCAGAATCTGCAAGGTGACCCGGCTGA
GGATACCTCTTCTCGTCCTGGCAAGAGCAGCCTTAAGCTTCCAAAAGGCATTCTCAAGAAAAAGTCTCT
ACCTCTTCAGGGGAGGTACAGGAGGACCCTCAGGAACTCAGACCGGTGCCTGATACTCCAGGGCAGCCTG
TCCCTGTGTATCCCTGTCCCAAGGAAAGGCATCCTTAAGAAGTCTCGACAGCGTGAATCTGGTACTA
CTCCTCTCCAGAGCCAGCGAGTCTGGGAACTCTTAGACGCCAGTGATGTGTTGTGAGTGGGACCCC
GTGGAGCAGAAGTCTCCACAGGCTTCAGGGCTCCTCCTCCACCGCAAGGGCATTCTCAAACCTCAATGGCA
AGTTCTCCCGCACAGCCTTAGAAGGCACTACCCCTAGCACCTTTGGCTCCCTGGACCAACTGGCCTCCTC
CCATCCTGCAGCCCGGCCAGCCGCCCTCAGGGGCTGTGAGTGAGGACAGCATCCTGTCCTCCGAGTCC
TTTGACCAATTGGACTTGCTGAAGTCTTCCGAAACCCCACTGAGGGGCTGTGTGTCTGTGGACAACC
TGAGGGGGCTTGAGCAGCCTCCCTCAGAAGGTCTGAAGCGATGGTGGCAGGAATCCTTGGGGGATAGCTG
CTTTTCTCTGACAGACTGTCAAGAGGTGACTGCAGCCTACAGACAAGCCCTAGGAATCTGCTCGAAGCTC
AGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209612 protein sequence
Red=Cloning site Green=Tags(s)

MESVALLQRPSQAPSASALASESARPLADGLIKSPKPLMKQAVKRHHHKNLHRYEFLETLGKGTYGK
 VKKARESSGRLVAIKSIRKDKIKDEQDLLHIRREIEIMSSLNHPHIIAIEHFVFNSSKIVMEYASRGD
 LYDYISERFRLSERDARHFFRQIVSALHYCHQNGIVHRDLKLENILLDANGNIKIADFGLSNLYHKGKFL
 QTFCGSPLYASPEIVNGKPYVGPEVDSWSLGVLLYLIVHGTMPFDGQDHKTLVKQISNGAYREPPKPSDA
 CGLIRWLLMVNPTRRATLEDVASHWVNWGYTTGVGEQALREGGHPSGDSGRASMDWLRSSRPLEN
 GAKVCSFFKQHVPGGGSVTPGLERQHSLKSRKENDMAQNLQGDPAEDTSSRPGKSSKLPKGILKKSS
 TSSGEVQEDPQELRPVDPDTPGQVPVAVSLLPRKGILKSRQRESGYSSPEPSESSELLDASDVFSVSDP
 VEQKSPQASGLLLHRKGIKLNKGFRTALEGTTSTFGSLDQLASSHPAARPSRSPGAVSEDSILSSES
 FDQLDLPERLPETPLRGCVSDNLRGLQPPSEGLKRWWQESLGDSCFSLTDCQEVTAAYRQALGICSKL
 S

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_028778

ORF Size: 1896 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_028778.1](#), [NM_028778.2](#), [NM_028778.3](#), [NM_028778.4](#), [NP_083054.1](#)

RefSeq Size: 3108 bp

RefSeq ORF: 1896 bp

Locus ID: 74137

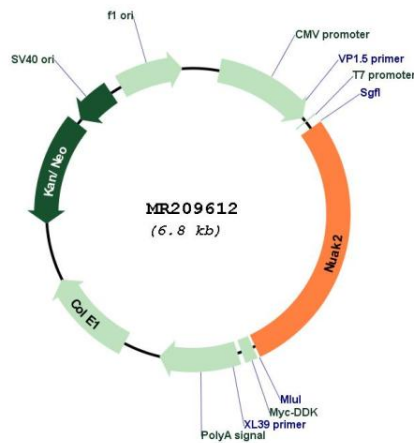
UniProt ID: [Q8BZN4](#)

Cytogenetics: 1 E4

MW: 69.7 kDa

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]

Product images:



Circular map for MR209612