

Product datasheet for **SC323459**

NUAK2 (NM_030952) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NUAK2 (NM_030952) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUAK2
Synonyms:	SNARK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_030952, the custom clone sequence may differ by one or more nucleotides

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ATGGAGTCGCTGGTTTTTCGCGCGGCGCTCCGGCCCCACTCCCTCGGCCGAGAGCTAGCCCGGCCGCTGG
CGGAAGGGCTGATCAAGTCGCCCAAGCCCCTAATGAAGAAGCAGGCGGTGAAGCGGCACCACCACAAGCA
CAACCTGCGGCACCCTACGAGTTCCTGGAGACCCTGGGCAAAGGCACCTACGGGAAGGTGAAGAAGGCG
CGGGAGAGCTCGGGGCGCCTGGTGGCCATCAAGTCAATCCGGAAGGACAAAATCAAAGATGAGCAAGATC
TGATGCACATACGGAGGGAGATTGAGATCATGTCACTCAACCACCCTCACATCATTGCCATCCATGA
AGTGTGTTGAGAACAGCAGCAAGATCGTGATCGTCACTGGAGTATGCCAGCCGGGGCGACCTTTATGACTAC
ATCAGCGAGCGGCAGCAGCTCAGTGAGCGCAAGCTAGGCATTTCTCCGGCAGATCGTCTCTGCCGTGC
ACTATTGCCATCAGAACAGAGTTGTCCACCAGATCTCAAGCTGGAGAACATCCTCTTGATGCCAATGG
GAATATCAAGATTGCTGACTTCGGCCTCTCAACCTCTACCATCAAGGCAAGTTCCTGCAGACATTCTGT
GGGAGCCCCCTATGCCTCGCCAGAGATTGTCAATGGGAAGCCCTACACAGGCCAGAGGTGGACAGCT
GGTCCCTGGGTGTTCTCCTCTACATCCTGGTGCATGGCACCATGCCCTTTGATGGGCATGACCATAAGAT
CCTAGTGAAACAGATCAGCAACGGGGCCTACCGGGAGCCACCTAAACCCTCTGATGCCTGTGGCCTGATC
CGGTGGCTGTTGATGGTGAACCCACCCGCCGGGCCACCCTGGAGGATGTGGCCAGTCACTGGTGGGTCA
ACTGGGGCTACGCCACCCGAGTGGGAGAGCAGGAGGCTCCGCATGAGGGTGGGCACCCTGGCAGTGACTC
TGCCCCGCGCTCCATGGCTGACTGGCTCCGGCGTTCCTCCCGCCCCCTCTGGAGAATGGGGCAAGGTG
TGCAGTCTTTCAAGCAGCATGCACCTGGTGGGGGAAGCACCACCCTGGCCTGGAGCGCCAGCATTTCG
TCAAGAAGTCCCGAAGGAGAATGACATGGCCAGTCTCTCCACAGTGACACGGCTGATGACACTGCCCA
TCGCCCTGGCAAGAGCAACCTCAAGCTGCCAAAGGGCATTCTCAAGAAGAAGGTGTCAGCCTCTGCAGAA
GGGTACAGGAGGACCCTCCGGAGCTCAGCCCAATCCCTGCGAGCCAGGGCAGGTGCCCCGCTGCTCC
CCAAGAAGGGCATTCTCAAGAAGCCCCGACAGCGAGTCTGGCTACTACTCCTCTCCCGAGCCAGTGGA
ATCTGGGAGCTCTTGGACGCAGGCGACGTGTTTGTGAGTGGGGATCCCAAGGAGCAGAAGCCTCCGCAA
GCTTCAGGGCTGCTCCTCCATCGCAAAGGCATCCTCAAACCTCAATGGCAAGTTCTCCAGACAGCCTTGG
AGCTCGCGGCCCCACCACCTTCGGCTCCCTGGATGAACTCGCCCCACCTCGCCCCCTGGCCGGGCCAG
CCGACCCTCAGGGGCTGTGAGCGAGGACAGCATCCTGTCTCTGAGTCTTTGACCAGCTGGACTTGCTT
GAACGGCTCCCAGAGCCCCACTGCGGGGCTGTGTGTCTGTGGACAACCTCACGGGGCTTGAGGAGCCCC
CCTCAGAGGGCCCTGGAAGCTGCCTGAGGCGCTGGCGGCAGGATCCTTTGGGGACAGCTGCTTTTCCCT
GACAGACTGCCAGGAGGTGACAGCGACCTACCGACAGGCACTGAGGGTCTGCTCAAAGCTCACCTGA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_030952 unedited

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CCGCCCCGTTCTCAGCAAATGGGCGGTAGGCGCTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAG
TGAACCGTCAGAATCTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGGCAGGAGGTGGCTCCCC
TGCTGGTGGCGGACCTGTGCCCGCGCTTCAGCCCTCCCGCACAGCCTACTGATTCCTCGCCGCTT
TGCTCACCTCCTGCTCGCCATGGAGTCGCTGTTTTTCGCGCGGCGCTCCGGCCCCACTCCCTCGGCCGA
GAGCTAGCCCGGCGCTGGCGGAAGGGTGTATCAAGTCGCCCAAGCCCCTAATGAAGAAGCAGGCGGTGA
AGCGGCACCACCACAAGCACAACCTGCGGCACCCTACGAGTTCCTGGAGACCCTGGCAAAGGCACCTAC
GGGAAGGTGAAGAGGCGCGGAGAGCTCGGGCGCCTGTGGCCATCATGTCAATCCGGAGGACAAATCAA
AGATGAGCAGATCTGATGCAACATACGGAGGGAGATTGAAGATCATTGTCACTCAACCACCTTCCAAT
CATGCATCATGACTGTGTGAAACAGCAGCAAGATCGGGATCGTCATGAATTATGCAGCTGGGCGGACTT
ATTAGACCTCACTACCGACGCGCACACCGTCTATGTAGACGCGGAGCTAGGCATTTCTCCGGCATATCGT
CTTTGGCTGTGCATATTGCCCTCGAACAGATGTGCCCCGATTCCACCTGGACACTCTTGTAGATCCAT
GGGAATACGAATTGAATCTGCCCTCCAACCTACCAAGGAATTTCGACATCTTTGGGAACCTTAGCGCTCG
AATGTAATGGAACCATCAAGCCAAGTGACAGTGCCTGTTATCCTACGGTTAGCCAGCTTGATCAGATC
TAGCATTACCGTCTCGAT
    
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Kinase Domain Sequence:	>SC323459 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CYACKMGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTC AGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTGGCTCCCCGTCTGGTG CGGGACCTGTGCCCCGCGCTTCAGCCCTCCCCGCACAGCCTACTGATTCCTGCCGCCCTTGCTCACCT CCTGCTCGCCATGGAGTCGCTGGTTTTTCGCGCGCGCTCCGGCCC
Restriction Sites:	Please inquire
ACCN:	NM_030952
Insert Size:	4000 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).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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:	<ol style="list-style-type: none"> 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_030952.1 , NP_112214.1
RefSeq Size:	3443 bp
RefSeq ORF:	1887 bp
Locus ID:	81788
UniProt ID:	Q9H093
Cytogenetics:	1q32.1
Protein Families:	Druggable Genome, Protein Kinase

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.[UniProtKB/Swiss-Prot Function]