

Product datasheet for **SC109313**

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-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC109313 sequence for NM_030952 edited (data generated by NextGen Sequencing)

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ATGGAGTCGCTGGTTTTTCGCGCGGCGCTCCGGCCCCACTCCCTCGGCCGAGAGCTAGCC
CGGCCGCTGGCGGAAGGGCTGATCAAGTCGCCCAAGCCCCAATGAAGAAGCAGGCGGTG
AAGCGGCACCACCACAAGCACAACCTGCGGCACCGCTACGAGTTCTGGAGACCTGGGC
AAAGGCACCTACGGGAAGGTGAAGAAGGCGGGAGAGCTCGGGGCGCCTGGTGGCCATC
AAGTCAATCCGGAAGGACAAAATCAAAGATGAGCAAGATCTGATGCACATACGGAGGGAG
ATTGAGATCATGTATCACTCAACCACCTCACATCATTGCCATCCATGAAGTGTGGAG
AACAGCAGCAAGATCGTGATCGTCATGGAGTATGCCAGCCGGGGCGACCTTTATGACTAC
ATCAGCGAGCGGCAGCAGCTCAGTGAGCGGAAGCTAGGCATTTCTCCGGCAGATCGTC
TCTGCCGTGCACTATTGCCATCAGAACAGAGTTGTCCACCGAGATCTCAAGCTGGAGAAC
ATCCTCTGGATGCCAATGGGAATATCAAGATTGCTGACTTCGGCCTCTCCAACCTCTAC
CATCAAGCAAGTTCTCGACAGATTCTGTGGGAGCCCCCTATGCCTCGCCAGAGATT
GTCAATGGGAAGCCCTACACAGGCCAGAGGTGGACAGCTGGTCCCTGGGTGTTCTCCTC
TACATCCTGGTGCATGGCACCATGCCCTTTGATGGGCATGACCATAAGATCCTAGTGAAA
CAGATCAGCAACGGGGCCTACCGGGAGCCACCTAAACCCTCTGATGCCTGTGGCCTGATC
CGGTGGCTGTTGATGGTGAACCCACCCGCCGGGCCACCCTGGAGGATGTGGCCAGTCAC
TGGTGGGTCAACTGGGGCTACGCCACCCGAGTGGGAGAGCAGGAGGCTCCGCATGAGGGT
GGGCACCTGGCAGTGACTCTGCCCGCGCTCCATGGCTGACTGGCTCCGGCGTTCTCTCC
CGCCCCCTCTGGAGAATGGGGCCAAGGTGTGCAGTTCTTCAAGCAGCATGCACCTGGT
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AATGACATGGCCAGTCTCTCCACAGTGACACGGCTGATGACACTGCCCATCGCCCTGCC
AAGAGCAACCTCAAGCTGCCAAAGGGCATTCTCAAGAAGAAGGTGTCAGCCTCTGCAGAA
GGGGTACAGGAGGACCCTCCGGAGCTCAGCCCAATCCCTGCGAGCCAGGGCAGGCTGCC
CCCCTGCTCCCCAAGAAGGGCATTCTCAAGAAGCCCCGACAGCGGAGTCTGGCTACTAC
TCCTCTCCCGAGCCAGTGAATCTGGGGAGCTCTTGGACGCAGGCGACGTGTTTGTGAGT
GGGGATCCCAAGGAGCAGAAGCCTCCGCAAGCTTCAGGGCTGCTCCTCCATCGCAAAGGC
ATCCTCAAACCTCAATGGCAAGTTCTCCAGACAGCCTTGGAGCTCGCGGCCCCACCACC
TTCGGCTCCTGGATGAACTCGCCCCACCTCGCCCCCTGGCCCGGGCCAGCCGACCCTCA
GGGGCTGTGAGCGAGGACAGCATCTGTCTCTGAGTCTTTGACCAGCTGGACTTGCTT
GAACGGCTCCCAGAGCCCCCACTGCGGGGCTGTGTGTCTGTGGACAACCTCACGGGGCTT
GAGGAGCCCCCTCAGAGGGCCCTGGAAGCTGCCTGAGGCGCTGGCGGCAGGATCCTTTG
GGGGACAGCTGCTTTTCCCTGACAGACTGCCAGGAGGTGACAGCGACCTACCGACAGGCA
CTGAGGGTCTGCTCAAAGCTCACCTGA
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Clone variation with respect to NM_030952.1
1323 g=>c

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_030952 unedited GGGTTTTNCCCCTTTNGGNCTGTACAAATTTGTNAACTACTACTATAGGCGGCCGG NAATTCGCACGAGGTGGCTCCCCGTCTGGTGCGGGACCTGTGCCCCGCGCTTACGCCCT CCCCGCACAGCCTACTGATTCCTGCGGCCCTTGCTCACCTCTGCTCGCCATGGAGTC GCTGGTTTTCGCGCGGCGCTCCGGCCCCACTCCCTCGGCCGACAGCTAGCCCCGGCCGT GGCGGAAGGGCTGATCAAGTCGCCAAGCCCCCTATGAAGAAGCANGCNNGTGAAGCGCA CCACCACAAGCACAACCTGCNGCACCGCTACGAGTTCCTGGAGACCCTGNGNCCAAGCAC CTACNGNAANGTAAAAANGCNNGGANAGCTCGGGGCGCTGGNTGCCATTTCAGTCAT CCGGAAGGACAAATCCAAGATGAGCAGAATCTGATGCCANCCGAGGGAGATGAGATCA TGTTCATCTTCAACACCCTACATCAATGCCATCCATGAAATTTGTTAAAAACACCACCAGA TCCTGATCCTCATGGAATTTGCCACCCGGGCAACCTTTTTAAATTCATTAACGAACGGG GACAGCCTCATTAAACCCGAAACTTGGGCTTTTTCCCGAAATTTGCTTTGCCCGGCC TATTTGCCCCACAAAAAATTTTTCCCGGATTTCCAGCCTGGGAAAACCCCTTTTGG AGCCCAGCGGGAAATCAAGAATTTTGGATTTTGGCCTTCCACACCTTTCCAACAAG GGGAGTCTCCGAAAAATTTTTGGGGGCCCCCTTTTACTCCCCCAAAAAATTGT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' genomic read for NM_030952 unedited AGNAGCTCGACTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCCAATCACCTTTCTGGT TTAATGGTACTTTTTGGCCACGGAGGTCCATTAGGTAGAGACCATTAGGTAAAGAGACT CAAGAGTGTGGAGTGGAGTGTGGGGGTTGTGGAAGGANGTNNAAATANTTGCAAAAATA TCTCTGTACACAAAACCTTAGATGTCATAGTGGATTTTCCAGAACATAGCATTACAT TATTGAAAACAGCAAGATTCACTTTTCTAAAACACAAAGCCAAGAACATAAAAAATAAT ATGGACATTCTAGAGTCCCTGAAGCCTAAAGAACACATCCATAGTCTGGACTTTAGACCA GCTTAGAGGCAAAAGTTCTGAGTCACTGAGGTCCAAGGTGGAGTCCAGAGGAGGCTGGCC CCCTTGAGATGAAGTCCACACAGCAGGCGGAGGCTTTTCAAGTCTTTCAGATTCACAGCA CCAACCTCAGGAGGCTCAGGCCAGGTTTGGAGGATGGAAGGGAAGGAGAACCATTGAAG ACCAGAGATTGTGTTCTTACTCCTAGGCTAAATAAGGAAGGGTTAGGTGGGCCCGGT GGCTCACGCCTGTAATCCCACACTTTGGGAGGCCCCAGTGGGTGGATCACCTTGAGTCC GGAGTTTGAGACCAGCCTGCCAACTGGGAAACCCTGTCCTCTACTAAAAAACAATAAT ANCCCCGGCCTGGTGGCCCGCCCCCTGTAATCCCACCTACTAAGAAGCCTTGAGCAAGA AAAATCCCCTTGACCCCCGGAACGCCGAAGGTTGAAGTTGAACCTAAAATCCCCCCCCCT GGCCTCAACCTGGGCCCAAGGCCAACTTCCGTCCG</p>
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).
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]