

## Product datasheet for **SC101826**

### **NUAK2 (AK091893) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NUAK2 (AK091893) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUAK2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for AK091893, the custom clone sequence may differ by one or more nucleotides

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AAGTGACACCTCCTCTAGGAAGCCTTCTTTGATCACCCCAACCTCTCCCAGACCTCTAATGTGGACCCCA
CAGTCCCTGGACTTCTTTGAGACCACACTAGCCCACTCCCCGCCCTCCTGGAACCTTGAGCTTCTGGA
GAGCTGGGGCCACACCGTCTCTGTGGTTTTCCGAGCCGGTGCAGGTGGTCAGCAGATAACCTTGAGTG
AATGTGAATCTAAAAAAGTAATAAAGGGATCTGGCACACTTAACTTTTAAATCTAAATATGTTTCTTTT
AAATTCTATGATTGTTCTGGGTCTTGAGAGCAGACCTCCCAACAATTCCGGTCTCCCATATGGGGTCACA
GCCGTTTGGGTTTCCGATCGCGGGCACGGCACCCATCTGCGGTGTCTGTGAAGCCGGCGCCTTCTGCCGG
GGGTTTGGGTTTTTTGTGTGTGTGATAGATCTTTTAGCTTAGATACGTTTCTTAAAGCTTCTCTTTGT
TAAAAATGCGCAGGAAAACCTCGGCGTCTGTTCTATTTTTGTCTTTCTAACACCTACCCCTGATTTTTT
CTTCTTTTTTATTTCTGCAGACTTTGAATTTAAACAGATAAAAATGGATGCTGTTTCCATCGTTTGT
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TCTTTGTAGGATTTTCATCTGTGAATCATTGCTTGCCAGCAATAAGGAAATGGCTTTTTGCGTCTGCG
TTTTGATGATGGAATTTCCCATGGGCTTTCAGAGTGCAGTGCCTTTCAGATGATTTCTTAGGACCG
AGTTCTGGGACTTGCTGCTTATGAGCCAGCGTCTCGGGCCCTGTGAGCTCTGGCTGTCTCCCTGGG
GTGATGGCCCTGCCGGGAGCCGTCTGTCCTTGGCAGATGGAGTTCAGTGTAGTGAGAGCCAGCCTCTG
TTTTACAAACGAGCATGCTCCAAGCAGTGGCTGATGGGCGGTGGAATTCACCATGGCTCTGGCCTCTGG
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CAGGTTTCTCCTGCTCCTCATCCCTGCACTGGTTCACGGGACTGGCTGGACACAGCGTCACTGGTTC
CCAGCACAGCTGACACCCCTTCCAGGAACCTTCTCACTATCCCCAGGGCAGAGGTGGCCTCCGGGCATG
CGTGCTCCTCTCCGCTCCTCTGCAGTCTCTTTTAGTCCAGTGGTGTTCAGGTGCTTGTCTTACT
GGAGCTCCTTAAGGACAGGGCCTGGATCTCAGTCATCCCCAATCCCAGCTAACCCAGCTCATGTTCT
GATTGGCCCTGGGACACTAGCAGAACGTGACTTGGTTCTGTTCACTAGTGCCATATAGAGTCAGGTTCT
GGAGCTGGTGTGAGAGTGGGAGGTTTGAATCTTCATGGGCAGGGGCTACATTGTGTGAGGCTCTGAGCT
GGCATTTTCCATGTGAAAGGAGACAAGGGCTCCAGGAGAAATGGCCTGTATTTGCTGGGGTGTAGGGGG
GGCCACATGCCACTGAGCTTTAGAAGCCTGCTGGGTTAGGAATCAGCACACAGCCTGGATCAGTAAAAAT
ACAGGAACAAGAAGATAATAGGAGATTTGTGCTGTAAGGCAGGTGTTTACAGTTTGATTTTTTCTCAGT
GAGTAGAAATGTTGGCGTAGCTTAAAAAAAATCTGAAATAATTCAGTGTCCACGAAAGGGCTGAAAAG
GAGTTATCTTAAATTCATATAGATTAAGAAAAGCATAGCTGGTCTGGTGGCTCGCGCCTGTAATCCCAG
CACTTTGGGAGGCTGAGGTGGGCGGATCGCTGGGGTTTGGAGTTCGAGACCGGCCTGACCAACATGGAG
AAACCCCGTCTCTGCTGGGAATGCAAAATTAGCCGAGCGTGGTGGCAACGCGCCTGTAGTCCCAGTACT
CAGGAGGCTGAGGAGGAGATCGCTTGAAGCCGGGAGGCGGAGGTTGCGGTGAGCCGAGATCGGCCAT
TGCCTCCAGCCTGGGCAACTAGAGCAAACTGCGTCTC
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for AK091893 unedited</p> <pre> NGGGGTTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCTGTGA TGTCTTTTCTTCTCCCTCTGCCCTCTCCCTCTTCTTGAGAATTAATGCCTGAAAC CGATTAGTTGAATACCCCTCTCATTCTCTTGCCCAAGTGATAGTCCCACCACCTGGAGG ATGAAGTCCAGACCAGTTGGTGTGGCCTACGGGGCGTGCAGGATCTGGCTGCTGCCTGCA TCTCTGGCCACCAGTGGTGCAGTGTCTCAGAGCCAGTGACGCCCTGCCTCTGCACCTTGC TTGTTCTGCTGCCTCTCCCGGGCAAATTTGTTTGTCCCTTAGGATTCAGCTTAAGTGA CACCTCCTCTAGGAAGCCTTCTTTGATCACCCCAACCTCTCCAGACCTCTAATGTGGAC CCCACAGTCCCTGGACTTCTTTGAGACCACACTAGCCCACTCCCGCCCCCTCTGGAAC CTTGAGCTTCTGGAGAGCTGGGGCCACACCGTCTCCTGTGGTTTTCCGAGCCGGTGCAG GTGGTCAAGATAACCTTGAGTGAATGTGAATCTAAAAAAGTAATAAAGGGATCTGGC ACACTTAACTTTTAAATCTAAATATGTTTCTTTTAAATCTATGATTGTTCTGGGCTTG AGAGCAGACCTCCCAACAATTCGGTCTCCCATATGGGGTACAGCCGTTTGGGTTCCG ATCGCGGGCACGGCACCCATCTGCGGTGTCTGTGAAGCCGGCGCTTCTGCCGGGGTTT GGGTTTTTTTGTGTGTGTGATAGATCTTNTAGCTTAGATACGTTTCTTAAAGCTTCTCT TTGTTTAAAAATGCGCANGNAACTTCGGCGTCGNTCTATTTTTGTNCCTNTTACACCT ACCCCTGATTTTNTCTTTT</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for AK091893 unedited</p> <pre> NGGGTAATCTATGTACCGCGCCGAATCTAAGATCGATTTTTTTTTTTTTTTTTTTGAGAC GCAGTTTTGCTCTAGTTGCCAGGCTGGAGCGCAATGGCGGATCTCGGCTCACCGCAAC CTCCGCCTCCCGGTTCAAGCGATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGATTACA GGCGCGTTGCCACCACGCTCGGTAATTTTGCATTTTATATACGGGTTTTCTCCAT GTTGGTCAAGGCTGGTCTCGAACTCCAAACCTCAGGTGATCCGCCACCTCAGCCTCCCAA AGTGCTGGGATTACAGGCGTGAGCCACCACGACCAGCTATGCTTTCTTTAATCTATGTGA ATTTAAGATAACTCCTTTCCAGCCCTTTCCGTGGACAGTGAATTTTCCAGATTTTTTTT CAAGCTACGCCAACATTTCTACTCACTCAAGAAAAATCAAAGTAAACACCTGCCTTAC AGCACAACTCTCCTATTATCTTCTTGTCTGTATTTTCACTGATCCAGGCTGTGTGCT GATTCCTAACCCAGCAGGCTTCTAAAGCTCAGTGGCATGTGGCCGCCCTACACCCAG CAAATACAGGCCATTTCTCCTGGAGCCCTGTCTCCTTTACATGGAAAAATGCCAAGCTC AGAGCCTGACACAATGTAGCCCTGCCCCATGAAGATTCAAACCTCCCACTCTCACACCAG CTCCAGGAACCTGACTCTATATGGAGCTAGTGAACAGAACCAAGTCACGTTCTGCTAGTG TCCCAGGGCCAATCAGGAACATGAACTGGGGTTAGCTGGGGATTGGGGATGACTGAGATC CAAGCCCTGTCCTTAAGGAGCTCCAGTAAGAGCAAGACACCCTGAACACACTGGACTAA AGGAAC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK091893
<b>Insert Size:</b>	2500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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:** [AK091893.1](#)

**RefSeq Size:** 2139 bp

**RefSeq ORF:** 2139 bp

**Locus ID:** 81788

**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]