

## Product datasheet for **SC104381**

### **NUAK2 (AK056725) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NUAK2 (AK056725) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUAK2
Synonyms:	ACVRLK1; ALK-1; ALK1; HHT; HHT2; ORW2; SKR3; TSR-I
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for AK056725, the custom clone sequence may differ by one or more nucleotides

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ATTTGTATCTCAGCTCCATGATGCCTTGGGCTTTCTGTCTCCTCAACAAGAGCGCAGCTTGTGAATGTC
AGTCCCTGAGAGAGCTGGGCTGACTTACTAGGGCATTAAATCCTAAGAGTCTACTGAGGTGTGGC
AGGATCACAGCCAGTGGAAAAAGGCGAGTCTAGTGGGCAAGGCCAGGACTTTCAGATTAAGTGAAG
GATATCGAGGCCAAGCATGGCAGGGGAAAGTCTAGTGGGTGTCAAGAGACCCAGGCTGACCCCGGATGT
TTGCTCCATGTGACAAAAGCAGGCTGTCTCAGGACCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT
ACACGGAGTTTGTCTTGTCTGTCAGGCTAGAGTGAATGGCATGATCCCAGCTTACCGCAACGCTAC
CTCCAGGTTCAAATCATTCTTGTCTCAGACTCCCAGTAGCTGGGATTACAGGCACATGCCACCATG
CCTGGCTAATTTGTATATTTAGTAGAAACAGGGTTTCCCATGTTGGCCATGCTGGTCTCGAAGTCTG
ACCTCAGGTGTTCCACCTACCTCAGCTCCCAAAGTGTGGGGTTACAGGTGTGAGCCATCGCGCTGGC
CAGGACCTTTGTTTCTTATCTACATATTGGAAGATTTGGTCTGATGTCCTTTGAGGCTTCTTAGCTCT
AGTTCTCTGACACTTCAGCTATATCACAGCTAACTTCTCAGTCTCATCTATTCCTTATGCTCCAGCCC
CTGGCAATTTGCCTCAAGATGGGGTTTAAAAATAACTTTACCTGACTCAAGGAGTGTCTGGAGCACCTC
TAGTCTAAGTCTGCAAGCTCCAGTTCTTGGCTAAAACCATGCCAGTGGCCACCCCTGGGCTCAGACAGC
TCTGGGCTTTTGACCACAAGCCAGCCCCTCGCCCTCTGTGGCATAGTCTTCTGCCCCAGGACTGC
AGGGCGGCTTCTCCAAGGCTTCCAAGGCTCAAAAGAAATTTGGCTCCATCCAAGAAGGCTCCAGCTCCC
CTACTGGCCCCTGGCTCAGGCCACACCCTGGCCAGGCCAGAGAGTGTGTCTCAGGAGAATTCATGG
CTCTAGAGAGACACAGAAAGTTTGGCATTGGAAATTTCAAGGATGTATGTATGCTCACGTATGGAGC
AGGTGTCTGGTCCCTGGTGCAGGGAAGTGGGCTGCAGGGAAGTGGATTGGAGGGGAGCTTGAGGAAT
ATAAGGAGCGGGGTGGAGACTCAGGCTATGGACAAGGACAGCCCAAGTTGGGAAGACCTGGCCCTTAG
TCGTCTCAGCCTAGGGGCAAGGCAAGTGAAGAAAGCTCTCCCGCTCTGCTGTAATGACCCAGAGTAGC
CTCCCCAGGCCGCATCTTATGTGTGCTTCCACCATCCTCATGGTGGCACTTTTCTAGGCTGTCTCCC
AGCATTGTGCAAGGCTCGGAAGAGAACCAGGAAGTGAAGTGGGTGAAAACAGAAAGCTCAATGGATGGG
CTAGGTTCCAGATCATTAGGGCAGAGTTTGCACGTCCTCTGGTCACTGGAATCCACCCAGCCACGAAT
CATCTCCCTCTTGAAGGATTTTATTTCTACTGGGTTTGGAACTCCTGCTGAGACCCACAGCCAG
AAACTGAAAGCAGCAGCTCCCCAAGCCTGAAAATCCCTAAGAGAAGGCTGGGCGAGGAAGTGGAGTG
ACAGGGGACAGGTAGAGAGAAGGGGCCAATGGCCAGGGAGTGAAGGAGGTGGCGTTGCTGAGAGCAGT
CTGCACATGCTTCTGTCTGAGTGCAGGAAGGTGTTCCAGGGTCAAAATTACACTTCTCGTACCTGGAGC
GCTGTTTGTGGGAGCACTGGGCTCATGCCTGGCACACAATAGGTCTGCAATAAACCATGGTTAAATCCTG
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for AK056725 unedited

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ATAACCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG
CAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTGCAGCGGCCGC
GAATTCGGCACGAGGATTTGGTCTGATGTCCTTTGAGGCTTCTTTAGCTCTAGTTCTCT
GACACTTCAGCCTATATCACAGCTAACTTCTTCACTCTCATCTATTCTTATGCTCCAGC
CCCTGGCAATTTGCCTCAAGATGGGGTTTAAAAATAACTTTACCTGACTCAAGGAGTGT
CTGGAGCACCTCCTAGTCTAAGTCTGCAAGCTCCAGTTCTTGCCTAAAACCATGCCAGTG
GCCACCCCTGGGCTCAGACAGCTCTGGGCTTTTGACCACAAGCCAGCCCCTCGCCCTCT
CTGTGGCATAGTCTTCTGCCCCAGGACTGCAGGGCGGCTTCTCCAAGGCTTCCAAGG
CTCAAAGAAATTTGGTCCATCCAAGAAGGCTCCAGCTCCCCTACTGGCCCTGGCTCA
GGCCACACCCCTGGCCAGGCCAGAGAGTGTGTCTCAGGAGAATTCAATGGCTCTAGAG
AGACACACAGAAAGTTTGGCATTGGAAATTTCAAGGATGTATGTATGCTCACGTATGGA
GCAGGTTGTCTGGTCCCTGNGTGCAGGNAAGTGGGCTGCAGGGAAGTGGATTGCAGGGG
AGCTTGAGGAATATAAGGAGCGGNGGTGGAGACTCANGCTATGGACCAGGACAGCCCA
AGGTGGGGAAGACCTGGCCTTAGTCGCTCCTCAGCCTAGGGCAGGGCAGTGAAGAAAGCTC
TCCCCGCTCCTGCTGTATGACCCAGATAGCCTCCCCAGCCGCATCTTTATGTGTGGT
CTCCACCATCCTCATGGGGCACTTTNCTAGCCTGTCTCCACACTGTGCAGGCCTCGAGA
GACCCAGAAN
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for AK056725 unedited GTAATACTATGNNACCGCGGCCGAATTCTANGATCGGTTTTTTTTTTTTTTTTTTTCAGN ATTTAACCATGGTTTATTGCAGACCTATTGTGTGCCAGGCATGAGCCCAGTGCTCCACACA AACAGCGTCTCCAGGTACGAGAAGTGAATTTGACCCCTGGAACACCTTCCTGCACTCAG ACAGAAGCATGTGCAGACTGCTCTCAGCAACGCCACCTCCTTCACTCCCTGGCCATTGGG CCCCTTCTCTACCTGTCCCCTGTCACTCCACTTCTGCCCCAGGCCTTCTCTTAGGG ATTTCCAGGCTTTGGGAGCTGCTTTCAGTTTCTGGCTGTGGGGTCTCAGCAGGAG TTTGTTCCAAAACCCAGTAGAAATAAAATCCTTCAAGAGGGAGATGATTGTTGGGCTGGG TGGATTCCAGTGACCAGAGGACGTGCAAACCTCTGCCCTAATGATCTGGGAACCTAGCCCA TCCATTGAGCTTTCTGTTTTACCCAGTTTCACTTCTGGTTCTTCCGAGCCTTGACAC AATGCTGGGAGACAGGCCTAGAAAAGTGCCACCATGAGGATGGTGAAGACACACATAAT ATGCCGGCTGGGAGGCTACTCTGGGTCATTACAGCAGGAGCGGGGAGAGCTTTCTTCA CTGCCCTGCCCTTAGCTGAAGACGACTAAAGGCAGGTCTTCCACCTTTGGGGTGTCC TTGTGCATAGCCTGGAGCTCCCCCGCTCCTTAAATTTCTTAAAGCTCCCCTCCAATCC ACTTTTCTGAAGCCAATTTTCTTGGGCCCCAGGGACCAGGAAAACCTGGTTCTTACG GGAGGAAACATACCCCTTGAATTTCCAAGGCCAACCTTTTTGGTGGGTTTCTAAA GCCTGGAAATTTCCCN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK056725
<b>Insert Size:</b>	1350 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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">AK056725.1</a>
<b>RefSeq Size:</b>	1960 bp
<b>RefSeq ORF:</b>	1960 bp
<b>Locus ID:</b>	81788
<b>Cytogenetics:</b>	1q32.1
<b>Protein Families:</b>	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]