

## Product datasheet for SC116876

### GAK (NM\_005255) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** GAK (NM\_005255) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** GAK  
**Synonyms:** DNAJ26; DNAJC26  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_005255 edited  
 ATGTCGCTGCTGCAGTCGGCGCTCGACTTCTTGGCGGGTCCAGGTCCTCGGGCGGTGCT  
 TCCGGCCCGGACACAGAGTACTTCGTGGGCAGACGGTGAAGTGGCGAGCTGCGGCTG  
 CGGGTGGCGGGTCTCGCCGAAGGAGGGTTGCATTTGTGTATGAAGCTCAAGATGTG  
 GGGAGTGGCAGAGATATGCATTAAAGAGGCTATTATCCAATGAAGAGGAAAAGAACAGA  
 GCCATCATTCAAGAAGTTTGCTTCATGAAAAAGCTTTCGGCCACCCGAACATTGTCAG  
 TTTTGTCTGCAGCGTCTATAGGAAAAGAGGAGTCAGACACGGGGCAGGCTGAGTTCCTC  
 TTGCTCACAGAGCTCTGTAAAGGGCAGCTGGTGAATTTTTGAAGAAAATGGAATCTCGA  
 GGCCCCTTTCGTGCGACACGGTCTGAAGATCTTCTACCAGACGTGCCGCGCCGTGCAG  
 CACATGCACCGGCAGAAGCCGCCATCATCCACAGGGACCTCAAGTTGAGAAGTGTG  
 CTTAGTAACCAAGGGACCATTAAGCTGTGTGACTTTGGCAGTGCCACGACCATCTCGCAC  
 TACCCTGACTACAGCTGGAGCGCCAGAGGCGAGCCCTGGTGGAGGAAGATCACGAGG  
 AATACAACACCAATGTATAGAACCAGAAATCATAGACTTGTATTCCAACCTCCCGATC  
 GGCGAGAAGCAGGATATCTGGGCCCTGGGCTGCATCTTGTACCTGCTGTGCTTCCGGCAG  
 CACCCTTTTGAGGATGGAGCGAAACTTCGAATAGTCAATGGGAAGTACTCGATCCCCCG  
 CACGACACGCAGTACACGGTCTTCCACAGCCTCATCCGCGCCATGCTGCAGGTGAACCCG  
 GAGGAGCGGCTGTCCATCGCCGAGGTGGTGCACCAGCTGCAGGAGATCGCGGCCGCCCGC  
 AACGTGAACCCCAAGTCTCCCATCACAGAGCTCCTGGAGCAGAATGGAGGCTACGGGAGC  
 GCCACACTGTCCCGAGGGCCACCCCTCCCGTGGGCCCCGCTGGCAGTGGCTACAGTGA  
 GGCTGGCGCTGGCGGAGTACGACCAGCCGTATGGCGGCTTCTGGACATTCTGCGGGGT  
 GGGACAGAGCGGCTCTTCAACAACCTCAAGGACACCTCCTCCAAGGTCATCCAGTCTGTC  
 GCTAATTATGCAAAGGTGACCTGGACATATCTTACATCACATCCAGAATTGCAGTGATG  
 TCATTCCAGCAGAAGGTGTGGAGTCAGCGCTCAAAAACAACATCGAAGATGTGCGGTTG  
 TTCCTGGACTCCAAGCACCCAGGGCACTATGCCGTCTACAACCTGTCCCCGAGGACCTAC  
 CGGCCCTCCAGGTTCCACAACCGGGTCTCCGAGTGTGGCTGGGCAGCACGGCGGGCCCCA  
 CACCTGCACACCCTGTACAACATCTGCAGGAACATGCACGCTGGCTGCGGCAGGACCAC  
 AAGAACGTCTGCGTCTGCACTGCATGGACGGGAGAGCCGCTGCTGTGGCCGTCTGC



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TCCTTCCTGTGCTTCTGCCGTCTTTCAGCACCCGCGAGGCCGCCGTGTACATGTTTCAGC  
 ATGAAGCGCTGCCACCAGGCATCTGGCCATCCCACAAAAGGTACATCGAGTACATGTGT  
 GACATGGTGGCGGAGGAGCCCATCACACCCACAGCAAGCCCATCCTGGTGAGGGCCGTG  
 GTCATGACACCCGTGCCGCTGTTTCAGCAAGCAGAGGAGCGGCTGCAGGCCCTTCTGCGAG  
 GTCTACGTGGGGACGAGCGTGTGGCCAGCACCTCCCAGGAGTACGACAAGATGCGGGAC  
 TTTAAGATTGAAGATGGCAAAGCGGTGATCCCCCTGGGCGTCACGGTGAAGGAGACGTG  
 CTCATCGTCATCTATCACGCCCGTCCACTCTGGGCGGCCGCTGCAGGCCAAGATGGCA  
 TCCATGAAGATGTTCCAGATTAGTTCCACACGGGTTTTGTGCCTCGGAACGCCACCACT  
 GTGAAATTTGCCAAGTATGACCTGGACGCGTGTGACATTAAGAAAAATACCCGGATTTA  
 TTTCAAGTGAACCTGGAAGTGGAGTGGAGCCAGGGACAGGCCGAGCCGGAAGCCCCA  
 CCATGGGAGAAGTTCGAGCATGAGGGGGTGAACCCAAAAATCCTGTTTTCCAGCCGGAG  
 GAGCAGCAAGACATTCTGTCTAAGTTTGGGAAGCCGGAGCTTCCCGGCAGCCTGGCTCC  
 ACGGCTCAGTATGATGCTGGGCGAGGTCGCCGGAAGCCGAACCCACAGACTCTGACTCA  
 CCGCCAAGCAGCAGCGCGGACGCCAGTCGCTTCTGCACAGCTGGACTGCGAGGAAGAG  
 AAGGAGGCAGAGACTGGTGCAGAAAATGCCTCTTCCAAGGAGAGCGAGTCTGCCCTGATG  
 GAGGACAGAGACGAGAGTGAAGTGTGAGATGAAGGGGATCCCCGATCTCCAGCGAGGGC  
 CAGGAACCCAGGGCCGACCCAGAGCCCCCGGCCCTGGCAGCAGGGCTGGTGCAGCAGGAC  
 TTGGTTTTGAGGTGGAGACACCGGCTGTGCTGCCAGAGCCTGTGCCACAGGAAGACGGG  
 GTCGACCTCCTGGGCTGCACTCCGAGGTGGGCGCAGGGCCAGCTGTACCCCGCAGGCC  
 TGCAAGGCCCCCTCCAGCAACACCGACCTGCTCAGCTGCCTCCTTGGGCCCTGAGGCC  
 GCCTCCAGGGGGCCCCGGAGGATCTGCTCAGCGAGGACCCGCTGCTCCTGGCAAGCCCG  
 GCCCTCCCTGAGCGTGCAGAGCACCCCAAGAGGAGGGCCCCCTGCCGCTGGCAACAAC  
 TCCCAGCCCTGCTCAATCCTGATCTCTCGGGCAATTTCTCAATTCGGACTCTGTGACC  
 GTCCACCATCCTTCCCGTCTGCCACACGCGCTCCGCCCCATCCTGCAGCGCCGACTTC  
 CTGCACCTGGGGATCTGCCAGGAGAGCCAGCAAGATGACAGCCTCGTCCAGCAACCCA  
 GACCTGTGGGAGGATGGGCTGCCTGGACCGAGACTGCAGCGTCGGCAGTGGCCCCCAGC  
 CCAGCCACAGAAGGCCCCCTTCTCTCCTGGAGTGCAGCCGGCCCTTGTGGCTCTCAG  
 GCCAGCTGGACCAAGTCTCAGAACCCGGACCCATTTGCTGACCTTGGCGACCTCAGCTCC  
 GGCCTCCAAGGCTCACCAGCTGGATTCCCTCCTGGGGCTTCATTCACAAAACGGCCACC  
 ACGCCCAAAGGCAGCAGTCTTGGCAGACAAGTGGCCGCCAGCCAGGGCGCCTCATGG  
 CCCCTCAGGCCAAGCCGCCCCCAAGCTGCACACAGCCAAGGCCTAACTATGCCTCG  
 AACTTCAGTGTGATCGGGCGCGGGAGGAGCGGGGGTCCGCGCACCCAGCTTGTCTCAA  
 AAGCCAAAAGTCTCTGAGAACGACTTTGAAGATCTGTTGTCCAATCAAGGCTTCTCTCC  
 AGGTCTGACAAGAAAGGGCCAAAGACCATTGCAGAGATGAGGAAGCAGGACCTGGCTAAA  
 GACACGGACCCACTCAAGCTGAAGCTCCTGGACTGGATTGAGGGCAAGGAGCGGAACATC  
 CGGGCCCTGCTGTCCACGCTGCACACAGTGTGTGGGACGGGAGAGCCGCTGGACGCC  
 GTGGGCATGGCCGACCTGGTGGCTCCGGAGCAAGTGAAGAAGCACTATCGCCGCGCGGTG  
 CTGGCCGTGCACCCGACAAGGCTGCGGGCAGCCGTACGAGCAGCACGCAAGATGATC  
 TTCATGGAGCTGAATGACGCCTGGTCGGAGTTTGAAGAACCAGGGCTCCCGGCCCTCTTC  
 TGAGGCCGAGTGGTGGTGGCTGCGCACACAGTCCACAGTTGGGAGCCGTCGTGGGAC  
 CTGGGTCCCCACCGTGAAGACCCGTCGGGCGACAGAGTGTGGCCAGGGTGGGGCTCCG  
 AGCCCCGGGTACCGCCCGCCAGCGTTCAGGCACATGAAGAGAAAGCATTCCAAGGCC  
 TCTGATTGTTGTTTCTTTTCTCCTCCCGAAGGAACAGCTGATTCATGCTCCTCCCGCA  
 ATTGTCACGTCTGTGATTTATTTGGTGTTCGGGCGTGGCCTCTGGAGCCCCGGCACGTG  
 GTGGGCCACGCTGCTGGCGCTCATGGCCCTGGTGTTCACCGCACTTTGTAATCAGTC  
 CCGTGGTTGTCTGTACAGAAATAAACTATTTCCGATGAAAAAAAAAAAAAAAAAACTCG  
 ACTCTAGATTGCGGCCGCGGTACATAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTG  
 TGACCCCTCCCCAG

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_005255 unedited  
 GAATCAGATTTGTATCGACTTATATAGGCGGCCGCGCAATCGCACGAGGGCGGAGATGGT  
 GCACCTCCGGGCCGGCGGTTGCTGAGCTGACCCGGACGGCGAGGGAGCGGGAGCCCGAGC  
 CCGACCACTCCGGCTGCCGCGGGGTGCCGCGCAGCCACCGCCATGTCGCTGCTGCAGTCG  
 GCGCTCGACTTCTTGGCGGGTCCAGGCTCCTTGTGCGGTGCTTCCGGCCGCGACCAAGT  
 GACTTCGTGGGGCAGACGGTGGAACTGGCGGAGCTGCGGCTGCGGGTGGCGGGTCTCTG  
 GCCGAAGGAGGGTTTGCATTTGTGTATGAAGCTCAAGATGTGGGAGTGGCAGAGATAT  
 GCATTAAGAGGCTATTATCCAATGAAGAGGAAAAGAACAGAGCCATCATTCAAGAAGTT  
 TGCTTCATGAAAAAGCTTCCGGCCACCCGAACATTGTCCAGTTTTGTTCTGCAGCGTCT  
 ATAGGAAAAGAGGAGTCAGACACGGGGCAGGCTGAGTTCCTTCTGCTCACAGAGCTCTGT  
 AAAGGGCAGCTGGTGGAAATTTTTGAAGAAAATGGAATCTCGAGGCCCCCTTTCGTGCGAC  
 ACGGTTCTGAAGATCTTCTACCAGACGTGCCGCGCGTGCAGCACATGCACCGGCAGAAG  
 CCGCCCATCATCCACAGGGACCTCAAGGTTGAGAACTTGTGCTTAGTAACCAAGGGACC  
 ATTAAGCTGTGTACTTTGGCAGTGCCACGACCATCTCGCACTACCCTGACTACAGCTGG  
 AGCGCCCAGAGGGGAGCCCTGGTGGNAGAAGAGATCACGAGGAATACAACACCAATGTAT  
 AGAACACCAAANATCATAGACTTGTATTCCCACTTCCCCGATCGCGAGAAGCANGATATC  
 TTGGCCCTGG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_005255 unedited  
 CTATGGACCGGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTCATCGGAAAA  
 AAGTTTAATTCTGTACAGACAACCACGGAACTGATTACAAAGTGCAGTGCAAACACCAG  
 GGCCCATGAGCGCCAGCAGCGTGGCCACCACGTGCCGGGCTCCAGAGGCCACGCCCGA  
 AACACCAATAAATCACAGACGTGACAATTGCGGGAGGAGCATGAATCAGCTGTTCTTCT  
 GGGAGGAGAAAAAGGAAACAACAATCAGAGGCTTTGGAATGCTTCTTCTCATGTGCCTG  
 GAACGCTGGGCGGGCGGTGACCCGGGCTCGGAGCCCCACCCTGGCCACACCTGCTGTG  
 CCCACGGGGTCTCACGGTGGGGACCCAGTCCCACGACGGCTCCCAACCTGTGGAGCTG  
 TGTGCGCAGCCACCACCACTGCGGCCTCAGAAGAGGGGGCGGGAGCCCTGGTTCTCAAAC  
 TCCGACCAGGCGTCACTCAGCTCCATGAAGATCATCTTGGCGTGCTGCTGACGGCTGC  
 CCCGACGCTTGTGGGGTGCACGGCCAGCACCCGCGGGGATAGTGCTTCTTCACTTGC  
 TCCGAAGCCACCAGTCCGGCCATGCCACGGGCGTCCAGCGGCTCTCCCCGTCCCACAGC  
 ACTGTGTGCAGCGTGGACAGCAGGGCCCGATGTTCCGTTCTTGCCTCATNCCAGTCC  
 AGGAGCTTCACTGGAGTGGGGCCGGTCTTTACCAGGCCCTGCTTCTCATCTCTGCA  
 TGGTCTTTGGCCCTTTCTGNCAAACCTGAAGGANAACTTTGATTGGACACAAATTTCAA  
 AGTCGTTTCAAAAACCTTTGGGTTTTGACAAAGTTGGTGCGGGGACCCCGTTTTTCCGGG  
 CA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_005255

**Insert Size:**

4910 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).

<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="#">NM_005255.1</a> , <a href="#">NP_005246.1</a>
<b>RefSeq Size:</b>	4331 bp
<b>RefSeq ORF:</b>	3936 bp
<b>Locus ID:</b>	2580
<b>UniProt ID:</b>	<a href="#">O14976</a>
<b>Cytogenetics:</b>	4p16.3
<b>Domains:</b>	pkinase, TyrKc, Dnaj, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Gene Summary:</b>	<p>In all eukaryotes, the cell cycle is governed by cyclin-dependent protein kinases (CDKs), whose activities are regulated by cyclins and CDK inhibitors in a diverse array of mechanisms that involve the control of phosphorylation and dephosphorylation of Ser, Thr or Tyr residues. Cyclins are molecules that possess a consensus domain called the 'cyclin box.' In mammalian cells, 9 cyclin species have been identified, and they are referred to as cyclins A through I. Cyclin G is a direct transcriptional target of the p53 tumor suppressor gene product and thus functions downstream of p53. GAK is an association partner of cyclin G and CDK5. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>