

## Product datasheet for **SC322472**

### **PANK3 (NM\_024594) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PANK3 (NM_024594) Human Untagged Clone
Tag:	Tag Free
Symbol:	PANK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for SC322472  
 GGCGGGGCTCCGGGGACCGGGGCTTTTGTGGAGCGGCTGCGGGGGGGCCCCGGAGC  
 GCCGAGGCCGGCGGCCTTCCCCAGCTTGCTCGGTCCCGGCCACCCCTCGCGGGGGTGGG  
 GGCCGCCCCCTGGGCGGGCATCTCTCAGGCGCCGCGCCCGCCCTAGGCCGGCCCCG  
 CCCGGCTGAGGGGAAGAACCAGCGGGGCTCGCCGCGGGCCAGCCACCTCCGGAGTC  
 GCCGCTCTGCTCAGTGCCCCGGATCGGAGGCCGTCATCGCCCTCGGGCCGACGCC  
 ATGAAGATCAAAGATGCCAAGAAACCCTTTCCCATGGTTTGGCATGGACATTGGGGGA  
 ACTCTAGTAAAGCTCTCGTACTTTGAACCTATTGATATCACAGCAGAGGAAGAGCAAGAA  
 GAAGTTGAGAGTTTAAAAAGTATTCGAAATATTTGACTTCTAACGTGGCATATGGATCC  
 ACCGGCATTCCGGATGTACACCTTGAACCTGAAAGATTTAACACTTTTTGGCCGAAGAGG  
 AACTTGCACCTTATCAGGTTTCCAACCCAGGACCTGCCTACTTTTATCCAAATGGGAAGA  
 GATAAAAACCTTCAACATTGCAGACGGTGCTATGTGCTACAGGAGGTGGTGCTTACAAG  
 TTTGAAAAGATTTTCGACAATTGAAACCTCCACCTGCACAACTGGATGAACCTGAC  
 TGCCTTGTAAAGGCTTGTGTATATAGACTCTGTGCTTCAATGGACAAGCCGAGTGC  
 TATTATTTTGTAAATGCCTCAGAACCTGAGCGATGCCAAAAGATGCCTTTAACCTGGAT  
 GATCCCTATCCACTGCTGTAGTGAACATTGGCTCAGGAGTCAGTATTTAGCAGTCCAT  
 TCCAAAGACAACATAAACGAGTGACTGGGACAAGCCTTGGAGGGGGTACCTTTCTGGGT  
 TTATGCAGTTTATTGACTGGCTGTGAAAGTTTTGAAGAGGCTCTTGAAATGGCATCCAAA  
 GGTGATAGCACACAAGCTGACAAGCTGGTCCGTGATTTTATGGAGGAGATTATGAAAGA  
 TTTGGTTTGCCAGGTTGGGCTGTAGCATCTAGTTTTGGGAATATGATTTAAGGAGAAG  
 CGAATCTGTTAGTAAAGAAGCTGGCAAGAGCTACTTTAGTTACTATACCAATAAC  
 ATGGTTCTGTGGCAGCAATGTGTGCTGTTAATGAGAAAATAAACAGAGTTGCTTTGTT  
 GGAAACTTTTTACGTGTCAATACCCTCTCAATGAAACTTTTGGCATATGCACTGGATTAC  
 TGGTCAAAGGTCAACTAAAAGCATTGTTTCTAGAACATGAGGGTACTTTGGAGCAGTT  
 GGTGCACTTCTGGGCTGCCAAATTTAGCTAAAGCATCAGGTCCTCTCTCTGCTAATA  
 AATGTCATCCAAGAGGAACTAAAACCAGAGGCATTATTACTGCATTGTTTGTCACTGGGA  
 ACCAAAGGATAAAAGAGTAGCATAAGCTGCTGAATGTTGCCATATTAAGGAGAGAACTT  
 GGTAAAGTGAAGTATTTCTCATTGAAATGCTTTCCCTTTTGTATATAGCCAGTGTAAAT  
 CCTTAAATGCAATACAGCCTCTGATTATTGAGCTTCTCTTAAAAAGATTTTTTTATTTT  
 ATGTAGCCAACATTGCAGTACTGTATGCTCAAACACAAATCTTAAAGTATCGGAACTGTT  
 TAGCTTATGAAAATAATCGACTCTGAATATTTGTTACAAGTCTGTTTTATGTGTTTTGAT  
 TACTAGTGAGCAGAAAATAACATACCCTGTATTCAAATTAAGTAAATGGCAATCAAAGA  
 TGATCATTTTTATGTGATTTTAGAAATGTTAAGGCAATACTACTAATTATTGTAGTTTTT  
 TTTAACGTATACCCAAAGCATGTATGTGATCTTTCCCATAGTATCTTTTTCTCAAAT  
 GCCATAATTAAGTAAATACTATTATTAATTTTCATGAGAATTCTAAAAAAAAAAAAAA  
 AA

**Restriction Sites:** Please inquire

**ACCN:** NM\_024594

**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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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_024594.2</a> , <a href="#">NP_078870.1</a>
<b>RefSeq Size:</b>	3359 bp
<b>RefSeq ORF:</b>	1113 bp
<b>Locus ID:</b>	79646
<b>UniProt ID:</b>	<a href="#">Q9H999</a>
<b>Cytogenetics:</b>	5q34
<b>Domains:</b>	Fumble
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Pantothenate and CoA biosynthesis
<b>Gene Summary:</b>	This gene encodes a protein belonging to the pantothenate kinase family. Pantothenate kinase is a key regulatory enzyme in the biosynthesis of coenzyme A (CoA) in bacteria and mammalian cells. It catalyzes the first committed step in the universal biosynthetic pathway leading to CoA and is itself subject to regulation through feedback inhibition by CoA. This family member is expressed most abundantly in the liver. [provided by RefSeq, Jul 2008]