

Product datasheet for **SC113651**

PANK4 (NM_018216) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PANK4 (NM_018216) Human Untagged Clone
Tag:	Tag Free
Symbol:	PANK4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_018216, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGAGTGTGGAGCGAGCGGCAGCGGGAGCAGCGGGACAGTCTGGACAAGAGCATCACGCTGCCCC
CCGACGAGATCTCCGCAACCTGGAGAACGCCAAGCGCTTCGCCATCGACATAGGCGGGTCGTTAACCAA
GCTGGCCTACTATTCAACGGTACAGCACAAAGTCGCCAAGGTGCGGTCTTTCGACCACTCCGGAAGGAC
ACAGAACGTGAACATGAGCCGCCCTATGAGATTTCAAGTCAAGAAGAGATCACTGCTCGACTGCACTTCA
TTAAGTTTGAGAATACCTACATCGAAGCCTGCCTGGACTTCATCAAGACCATCTCGTCAACACAGAGAC
CAAGGTATCCAGGCGACCGGGGCGGGGCTACAAGTTCAAGGACCTCATCGAAGAGAAGCTGCGGCTG
AAAGTCGACAAGGAGGACGTGATGACGTGCCTGATTAAGGGGTGCAACTTCGTGCTCAAGAACATCCCCC
ATGAGGCCTTCGTGTACCAGAAGGATCCGACCCTGAGTCCGGTTCAGACCAACCACCCCCACATTTT
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TGGGTGCGCGGCAGCTCCATTGGAGCGGCACCTTCTGGGGCTTGGCGCTCTGCTCACAAAACGAAGA
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CTACGGCGCGGCCACCAGACTCTCGGGCTGAGCGGGAACCTCATCGCCAGCAGCTTCGGGAAGTCGGCC
ACCGCCGACCAAGAGTTCTCAAAGAAGACATGGCGAAGAGCCTGCTGCACATGATCAGCAACGACATTG
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CTAACCAGTACAGCTGGGAGAGAACTATGCAGGCAGCTCCGGGTGATGAGTGCATCACCCGAGCTCGG
CCCGGCGCAGCGGGCGCGAGTGGCACTTTGACTTGTGGAAATGGACCGGCTGGAGAGGCCACTGGTT
GACCTGCCGCTCCTCTGGACCCGCCCTCTACGTGCCGACACGGTGGACCTCACCGATGACGCTCTGG
CCCGAAAATACTGGCTCACCTGCTTTGAGGAGGCCCTGGACGGGTAGTGAAGCGCGCAGTGGCGAGCCA
GCCAGACTCTGTGGATGCAGCCGAGAGGGCGGAGAAGTTCGGGCAGAACTGGAACAAGCTTCAGACC
CTGAGGCAGCAGCCCTTCGCTATGGGACCCTGACCGTGCAGCAGCTGCTGGACACCAGGGAGCACTGTC
TGAACGAGTTCAACTTCCCGGATCCCTACTCAAAGTGAAGCAGCGGGAGAATGGCGTGGCGCTGAGGTG
CTTCCCGGGGTCTGCGCTCCCTGGACGCGTGGGCTGGGAGGAACGGCAGCTGGCGCTGGTGAAGGC
CTCCTGGCGGGGAATGTCTTCTGACTGGGGGCCAAAGCCGTGTCTGCTGTCTTGAATCCGACCCCTACT
TTGGGTTTGAAGAAGCAAAGAGGAAGTTACAAGAAAGACCCTGGCTCGTGGATTCTACAGCGAGTGGCT
TCAGAGATTAAGGGGCCCCCTATAAATGTGCCTTAATTTTCGAGATAACAGTGAATAGACATCATT
TTGGGAGTCTTCCCTTTGTGAGGGAGCTACTCCTTAGAGGGACAGAGGTCATCCTGGCGTGCAACTCAG
GCCCGCCCTGAACGACGTGACCACAGCGAGTCCCTCATCGTGGCAGAGCGTATTGCGGGCATGGACCC
TGTCTGCACTCTGCGCTCCAGGAAGAGAGGCTGCTGCTGGTGCAGACGGGCTCCAGTCCCCGTGCCTC
GACCTCAGCCGCTGGATAAGGGGCTGGCCGCACTGGTGCGGGAGCGTGGCGGGATCTGGTGGTATCG
AGGGCATGGGCGGTGCTGTCCACACAACTACCACGCAGCCCTGCGCTGCGAGAGCCTCAAGTGGCCGT
CATCAAGAACGCGTGGCTGGCCGAGCGGCTGGCGGGCGGCTCTCAGCGTCATCTCAAGTACGAGGTC
CCAGCCGAGTGA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_018216 unedited AATTCNCCGCCGACGCCGATTGGCGGTAGGCGTGTCCGGTGGGAGGTCTATATAAGC AGATTTTCATTTAGGTGACTATAGAATACAGGCTACTTGTCTTTTTGCAGCGGCCGCG AATTCGGCAGCAGGGGAGTGTGGAGCGAGCGGCAGCGGGAGCAGCGGGGACAGTCTGGAC AAGAGCATCACGCTGCCCCCGACGAGATCTTCCGCAACCTGGAGAACGCCAAGCGCTTC GCCATCGACATAGGCGGGTCGTTAACCAAGCTGGCCTACTATTCAACGGTACAGCACAAA GTCGCCAAGGTGCGGTCTTTTCGACCACTCCGGAAGGACACAGAACGTGAACATGAGCCG CCCTATGAGAGTTCAGTTCAAGAAGAGATCACTGCTCGACTGCACTTCATTAAGTTTGAG AATACCTACATCGAAGCCTGCCTGGACTTCATCAAAGACCATCTCGTCAACACAGAGACC AAGGTCATCCAGGCGACCGGGGCGGGCCTACAAGTTCAAGGACCTCATCGAAGAGAAG CTGCGGCTGAAAGTCTACAAGGAGGACGTGATGACGTGCCTGATTAAGGGGTGCAACTTC GTGCTCAAGAACATCCCCATGAGGCCTTCGTGTACCAGAAGGATTCCGAGCCTGAGTTC CGGTTCCAGACCAACCACCCACATTATCCCCTATCTTCTGTCAATATCGGCTCTGGA GTCTCCATCGTGCAGGTGGAGACGGAGGACAGGTTCCACGTGGGTCTGCGGCAGCTACAT TGGAGGCGGCACCTTCTGGGGCTTGGCGCTCTGCTACCAGACGAAAGAGTTTGACGAG CTTCTGCACCTGCCTCCAGGGCCCGCACAGCCATGTGACATGCTGTGCTGNACGTCTACG GNNCGCCACCAGACTCTCGGCTGAGCGGGAACATCGCAGCAGTTCGGGAAGTCGCAC CGCGACCAGAG
Restriction Sites:	NotI-NotI
ACCN:	NM_018216
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_018216.1 , NP_060686.1
RefSeq Size:	2642 bp
RefSeq ORF:	2322 bp
Locus ID:	55229
UniProt ID:	Q9NVE7
Cytogenetics:	1p36.32
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Pantothenate and CoA biosynthesis

Gene Summary:

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 most abundant in muscle but is expressed in all tissues. [provided by RefSeq, Jul 2008]