

## Product datasheet for **SC207514**

### **PANK2 (NM\_024960) Human 3' UTR Clone**

#### **Product data:**

Product Type:	3' UTR Clones
Product Name:	PANK2 (NM_024960) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	PANK2
Synonyms:	C20orf48; HARP; HSS; NBIA1; PKAN
ACCN:	NM_024960
Insert Size:	2000 bp



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**Insert Sequence:** >SC207514 3'UTR clone of NM\_024960  
The sequence shown below is from the reference sequence of NM\_024960. The complete sequence of this clone may contain minor differences, such as SNPs.  
Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GCACTCCTTGAGCTGTTGAAGATCCCGTATCATTACCTGGGAGGGGTTCTGAAACCTTCCACAATG
GGATCTGTGGACTTTCATTTTTTTAAGAGACTTACTCAATTTTCATGACTGTACTCTGAAACAAAGTG
AGAAAGGACAGGTGTATTTTTCTAAGTCATCAAGATAAATCCTTAAGAATTCAGTCTAAATTAGCAACC
AGGAAGGAAAAATATATTAACAAACAAAAAGTGGCACATGTCCAGGCAGTGTGAGGATTTGCTGTA
TATAAGTTGCCTGCTTTGATTTTTGAAATCTCTGCATCACTCATTGGAAGTGCTTCTGAAGAGAGCTG
CTCTGTGTTGACTGAGTGGTTTTGTGCTGTTGAACTTGCTGAATGTAAGGCAGGCTACTATGCGT
TATAATCTAATCACAATTTGTCAATATGGTCTTGGCAATCATCTGTGCATTACTCTGTTTTGCATTAAG
CCTGTGTGTAAGTACTGTAACATGTTTTTATTCAAGTTCTGCAAAATTAATTGGGCAGGTTAAT
TGTGTACCTGAAACTTAACAAGCAGTTTTTGGAAAGGCAGTTCACGTTACTTTACACTAAATCCTGGG
AATGAATGTCTGGAGAGACAGGGCTTCTTTTCTTGGCAGAAATTCCTTGGGTAGTGGGCGGACTGTCT
GATGCAAGTGGGTACACTGGCAGAAGCAGCACAATCTGGAGGACTAACATGAGTCAGCAGGGCCACTAG
AATTGACACCCCTCAGGGGATCAGGGAGAATCTGGTTTTTTCTTTCAGGCTAAGTAGAAAAGGAAGAAC
TGAAGTGTCTGTCAAAGAACTCATGGGGAGTGGGGGTCTTTCAGGGCACTGTGGCACTTGGGAGGTGA
GTCTCAGAAGACTGCCTGAGGAGAGTCCAGGCTGCAGGTGCTCTTGGTAGGGGCTGAAGCTTTTCTTT
CTGCTTTGCAGAATAATTTCAAAGCCTTTCCCAAGGAGAGAATGCACCTTTTATATCTGAGGTCTTAA
GTGGTGCCCATATTGCTGTTGAAGGCAAGGATGGGCCTGTACAAAGCAGCCTTGGACCAGGAGGAAAA
CCCAAGGCTCTGCAGCCTCCCTGCTCCCTCCGTTTAAGGCTGTGGTCAGGGAGGGATGGGCAGGGTG
CCAGCCGATGGAGGCAGCAGAGACACCCGTGTTCCAGCTGGGGCAAGGGAACTGATATGTGGGCTGT
GGGCTGTTCCACTAGGCGTGGCCACCTCTGCACATGGGCCTTGGCACTTAGGAAATATGGGTGCTGCTG
CATTGGGACCTTGTGGGTGCAGAGCAGGATGGCTGCTGCGTGGAGGTAATTTTGTCCCTGGAGAG
TGATTGGTGACCCTTCCCTGCTGCTGCTGTTTGCAGGCTCCTGGCCTATACTACCTCTGACGCCCTG
ATCCTGAGTTCCTCTGCCCTCTCTGCTGCCAGCAGCGCTGTTGGTGGCCTCACCTCTCCAGTACCC
AGGCACCAAAGATGGCACCACCATCCTCTGCTGTACCACAGGGTGTGCTCCCTGGGCCAACTCTG
TGAAGTGTCTCACTTCCCATGGAGACCGAGGCCAGGGCCTGCCCTCTGAGGCCCTGTTTTGTGGTCC
TGCTGCCTCTGCTGTGCTGCGTTCCAGGAGTTGTCCACTGCTCGACGTGGGTACCATGCAGCCCTGC
TGTTCCCAACAATTAACAGAAAAGGAACTGAACGGATGAGTAAGGCTGCCAGGGTCACTCAGCTGGA
AAAGAGTAGAGCTGGACTCAAACCCGGGACTGTCTGTCTCTGGTGCCTGAGTTGGGAAGACGCTGTTGA
TGTCCCTTCTGCCTCGCTTTGAGCTTCTCCTCCGTGGGCCCTCCCTACTCTAGAGAAAAGTAGTCC
ATTCCCTCATGTTCCACCTTGTGCTCAGTAAACCTGTCACTCCACAGCAGGGTTTTTGGACAGTCT
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_024960.6](#)

**Summary:**

This gene encodes a protein belonging to the pantothenate kinase family and is the only member of that family to be expressed in mitochondria. 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 acyl CoA species. Mutations in this gene are associated with HARP syndrome and pantothenate kinase-associated neurodegeneration (PKAN), formerly Hallervorden-Spatz syndrome. Alternative splicing, involving the use of alternate first exons, results in multiple transcripts encoding different isoforms. [provided by RefSeq, Jul 2008]

**Locus ID:**

80025

**MW:**

74.8