

Product datasheet for **SC207513**

PANK2 (NM_153640) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	PANK2 (NM_153640) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	PANK2
Synonyms:	C20orf48; HARP; HSS; NBIA1; PKAN
ACCN:	NM_153640
Insert Size:	2000 bp



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Insert Sequence: >SC207513 3'UTR clone of NM_153640
 The sequence shown below is from the reference sequence of NM_153640. 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
GGATCTGTGGACTTTCATTTTTTAAAGAGACTTACTCAATTTTCATGACTGTACTACCTGAAACAAAGTG
AGAAAGGACAGGTGTATTTTTCTAAGTCATCAAGATAAATCCTTAAGAATTCAGTCTAAATTAGCAACC
AGGAAGGAAAAATATATTAACAAACAAAAAAGTGGCACATGTCCAGGCAGTGTGAGGATTTGCTGTA
TATAAGTTGCCTGCTTTGATTTTTGAAATCTCTGCATCACTCATTGGAAGTGCTTCTGAAGAGAGCTG
CTCTGTGTTGAGTTCAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
TATAATCTAATCACAATTTGTCAATATGGTCTTGGCAATCATCTGTGCATTACTCTGGTTTGCATTAAG
CCTGTGTGTGAACTTACTGTAACATGTTTTATTTCAAGTTCTGCAAAATTAATTGGGCAGGTTAAT
TGTGTACCTGAAACTTAACAAGCAGTTTTTGGAAAGGCAGTTCACGTTACTTTACACTAAATCCTGGG
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GATGCAAGTGGGTACTGGCAGAACGAGCACAATCTGGAGGACTAACATGAGTCAGCAGGGCCACTAG
AATTGACACCCCTCAGGGGATCAGGGAGAATCTGGTTTTTCTTTCAGGCTAAGTAGAAAAGGAAGAAC
TGAAGTGTCTGTCAAAGAACTCATGGGGAGTGGGGGCTCTTTCAGGGCACTGTGGCACTTGGGAGGTGA
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GTGGTGCCCATATTGCTGTTGAAGGCAAGGATGGGCCTGTACAAAGCAGCCTTGGACCAGGAGGAAAA
CCCAAGGCTCTGCAGCCTCCCTGCTCCCTCCGTTTAAAGGCTGTGGTCAGGGAGGGATGGGCAGGGTG
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CATTGGGACCTTGTGGGTGCAGAGCAGGATGGCTGCTGCGTGGAGGGTAATTTTGTCCCTGGAGAG
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ATCCTGAGTTCCTCTGCCCTCCTGCTGCCAGCAGCGCTGTTGGTGGCCTCACCTCCTCCAGTACCC
AGGCACCAAAGATGGCACCACCTCCTCTGCTGTACCACAGGGTGTGCTCCCTGGGCCAACTCCTG
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TGCTGCCTCTGCTGTGCTGCGTTCCAGGAGTTGTCCACTGCTCGACGTGGGTACCATGCAGCCCTGC
TGTTCCCAACAATTAACAGAAAAGGAACTGAACGGATGAGTAAGGCTGCCAGGGTCACTCAGCTGGA
AAAGAGTAGAGCTGGACTCAAACCCGGGACTGTCTGTCTCTGGTGCCTGAGTTGGGAAGACGCTGTTGA
TGTCCCTTCTGCCTCGCTTTGAGCTTCTCCTCCGTGGGCCCTCCCTACTCTAGAGAACTAGTCC
ATTCCCTCATGTTCCACCTTGTGCTCAGTAAACCTGTCACTCCACAGCAGGGTTTTTGGAGAGTCT
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
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_153640.4](#)

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