

Product datasheet for RC217228

PANK2 (NM_024960) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PANK2 (NM_024960) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PANK2
Synonyms:	C20orf48; HARP; HSS; NBIA1; PKAN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217228 representing NM_024960 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCCTGCTTTTATTCAAATGGGCAGAGATAAAAACTTCTCGAGTCTCCACACTGTCTTTTGTGCCACTG
GAGGTGGAGCGTACAAATTTGAGCAGGATTTTCTACAATAGGTGATCTCAGCTTTGCAAACGGATGA
ACTAGATTGCTTGATCAAAGGAATTTTATACATTGACTCAGTCGGATTCAATGGACGGTCACAGTGCTAT
TACTTTGAAAACCCTGCTGATTCTGAAAAGTGTGAGAAGTTACCATTTGATTTGAAAAATCCGTATCCTC
TGCTTCTGGTGAACATTGGCTCAGGGGTTAGCATCTTAGCAGTATATTCCAAAGATAATTACAAACGGT
CACAGGTACTAGTCTGGAGGAGAACTTTTTTGGTCTCTGCTGTCTTCTACTGGCTGTACCCTTTT
GAAGAAGCTCTTGAAATGGCATCTCGTGGAGATAGCACCAAAGTGGATAAACTAGTACGAGATATTTATG
GAGGGGACTATGAGAGGTTTGGACTGCCAGGCTGGGCTGTGGCTTCAAGCTTTGAAACATGATGAGCAA
GGAGAAGCGAGAGGCTGTGAGTAAAGAGGACCTGGCCAGAGCGACTTTGATCACCATCACCAACAACATT
GGCTCAATAGCAAGAATGTGTGCCCTTAATGAAAACATTAACCAGGTGGTATTTGTTGAAATTTCTTGA
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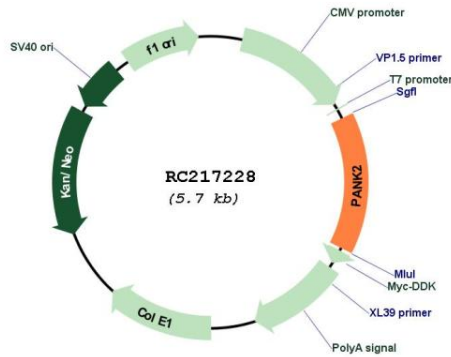
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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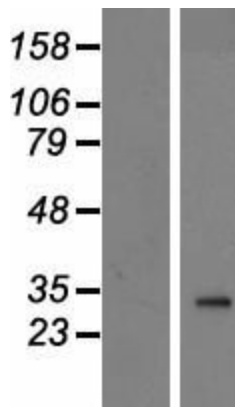
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Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_024960.6
RefSeq Size:	1711 bp
RefSeq ORF:	840 bp
Locus ID:	80025
UniProt ID:	Q9BZ23
Cytogenetics:	20p13
Domains:	Fumble
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Pantothenate and CoA biosynthesis
MW:	30.6 kDa
Gene Summary:	<p>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]</p>

Product images:



Circular map for RC217228



Western blot validation of overexpression lysate (Cat# [LY410958]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217228 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).