

Product datasheet for **MC221537**

Pank4 (NM_172990) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pank4 (NM_172990) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pank4
Synonyms:	D030031112Rik; R75150
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221537 representing NM_172990
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGCGTGGAGCGAGTGGCGGCGGGAGCGGGGACAGTCTGGACAAGAGCATCACGCTGCCCC
CCGACGAGATCTCCGCAACCTGGAGAACGCCAAGCGCTTCGCCATTGATATAGTGGATCATTGACCAA
GTTGGCATACTATTCCACCGTACAGCACAAAGTGGCCAAAGTGAAGTCTTTTACACCCCGGAAAGGAC
GTGGAGCAGGATCATGAGCCACCCTATGAGATCTCAGTCCAGGAGGAGATCACAGCTCGCCTGCATTTC
TCAAGTTTGAAGATACCTACATGGAAGCCTGCCTGGACTTCATCAGAGACCACCTAGTCAACACTGAGAC
CAAGGTATCCAGGCCACTGGGGTGGAGCCTACAAGTCAAGGACCTCATCGAGGAGAAGCTGCGTCTG
AAGGTGGACAAAGAGGATGTAATGACCTGCTTGATTAAGGGTCAACTTCGTGCTGAAGAACATCCCGC
ATGAGGCCTTCATGTACCAGAAAGACTCAGACCCAGAGTTTCGATTTAGACAAAACACCCCAACATCTT
CCCCTACCTCCTAGTCAACATTGGCTCTGGCGTCTCCATCGTGAAGGTGGAGACAGAGGACCGGTTTGAG
TGGATTGGTGGAAAGCTCCATTGGAGGAGGCACCTTCTGGGGCCTCGGGGCTCTGCTCACAAAACAAAGA
AGTTTGATGAGCTGCTGCAGCTGGCTTCCAGAGCCGGCATGCCAACGTTGACATGCTGGTCCAGGACAT
CTATGGTGGGGCCACCAGACCCTGGGCCTGAGTGGCAATCTCATCGAAGCAGTTTTGGGAAGTCAGCC
ACTGCTGACAGAGAGTTCTCAAAGAAGACATGGCCAAGAGCCTGCTGCACATGATCAGCAATGACATCG
GGCAGCTCGCCTGTCTGTACGCCAAGCTCCACGGCTTGGACAGGGTCTACTTTGGGGGCTTCTTCATCCG
GGGTACCCCGTGACCATGCGCACAAATCACCTACAGCATTAACTTCTTCTCAAGGGTGAAGTCCAGGCA
CTCTTCTGAGACATGAAGGCTACCTGGGAGCCATCGGGCATTTTTAAAAGGAGCCGAGCAAGACAATC
CTAACCGTACAGCTGGGGTGAAGTACGACAGCCAGCTCCGGGCTGATGAGCAGCTCGCCCGAGCTGTG
CCCGACACAGCGGGCAAGGAGCGGCACATTTGACCTGCTGGAAATGGACCGGCTGGAGAGGCCCTGGTC
AACCTGCCCTCCTCCTGGACCCGCTCCTCATGTGCCTGACACAGTAGACCTCACTGATGATGCTCTGG
CCCCTCAGTACTGGCTCACGTGCTTTGAGGAGGCCCTGGATGGGGTGGTGAAGCGAGCTGTGGCCAGCCA
GCCAGAGTCCATGGATGCAGTTGAGAGGGCAGAGAAAATCCGGCAGAAAATCTGGGGCAAATGCAGACC
CTCCGGCACCAGCCCTTTGCTTATGGGACTGACTGTGCGCAGCCTGTTGGACACAAGAGAACTGTT
TGAATGAATCAACTTCCAGATCCCTACTCCAAGGTGAAGCAGAAAGAAAACGGCCTCGCACTAAAATG
CTTTCAGAGCGTGACGCGCTCGCTGGACTCACTAGGCTGGGAAGAGCGGCAGCTGGCCCTGGTGAAGGG
CTCTTAGCTGGGAATGTCTTTGACTGGGAGCCAAGGCTGTGTCTGATGTCTGGAATCGGACCCCACT
TTGGGTTTGAAGAAGCAAAGAGAAAATGCAAGAACGGCCCTGGCTCGTGGATTCTACACCAAGTGGCT
CCAGAGGTTAAAGGGGCCCTCATAAATGTGCCTTAATTTTCGAGATAACAGTGGAAATAGACATCATT
TTGGGAGTCTTCCCTTTGTGAGGGAGCTACTCTTTAGAGGGACAGAGGTCATCTTGGCATGCAACTCAG
GCCCTGCCCTGAACGATGTGACCTACAGTGAAGTCTCTCATTGTGGCAGAACGCATTGCAGCCATGGACCC
CATCATCTGCACTGCTCTGAGAGAAGATAGGCTGCTGCTGGTGCAGACCGGTTCCAGCTCTCCATGCCTA
GACCTCAGCCGCTAGACAAGGGACTGGCTGTGCTGGTGCAGAGCGTGGTGCCGACCTGGTCTGATCG
AGGGAATGGGCCGTGCCATCCACACCAACTACCATGCAATTGCTGCGCTGCCAGAGTCTGAAGCTGGCAGT
GGTAAAGAACGCTTGGCTGGCAGAGCGTCTAGGTGGCCAGCTCTCAGTGCATCTTCAAGTACGAGGTT
CCTACCAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3236_e02.zip

Restriction Sites: SgfI-MluI

ACCN: NM_172990

Insert Size: 2322 bp

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_172990.5 , NP_766578.2
RefSeq Size:	2598 bp
RefSeq ORF:	2322 bp
Locus ID:	269614
UniProt ID:	Q80YV4
Cytogenetics:	4 E2
Gene Summary:	Plays a role in the physiological regulation of the intracellular CoA concentration (By similarity). The phosphatase activity shows preference for normal or oxidatively damaged intermediates of 4'-phosphopantetheine, which provides strong indirect evidence that the phosphatase activity pre-empts damage in the CoA pathway (By similarity). Hydrolyzing excess 4'-phosphopantetheine could constitute a directed overflow mechanism to prevent its oxidation to the S-sulfonate, sulfonate, or other forms (By similarity). Hydrolyzing 4'-phosphopantetheine sulfonate or S-sulfonate would forestall their conversion to inactive forms of CoA and acyl carrier protein (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 3' coding region compared to variant 1. It encodes isoform 2 which is shorter than isoform 1.