

Product datasheet for **MC220942**

Pank4 (BC050089) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pank4 (BC050089) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pank4
Synonyms:	D030031112Rik; R75150
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC050089
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAGCGTGGAGCGAGTGGCGCGGGAGCGCGGGACAGTCTGGACAAGAGCATCACGCTGCCCC
 CCGACGAGATCTCCGCAACCTGGAGAACGCCAAGCGCTTCGCCATTGATATAGTGGATCATTGACCAA
 GTTGGCATACTATTCCACCGTACAGCACAAAGTGGCAAAGTGGATCTTTTGACCACCCGGAAAGGAC
 GTGGAGCAGGATCATGAGCCACCCTATGAGACCTCAGTCCAGGAGGAGATCACAGCTCGCTGCATTTC
 TCAAGTTTGAGAACTACATGGAAGCCTGCCTGGACTTCATCAGAGACCACCTAGTCAACACTGAGAC
 CAAGTTCATCCAGGCCACTGGGGTGGAGCCTACAAGTCAAGGACCTCATCGAGGAGAAGCTGCGTCTG
 AAGGTGGACAAAGAGGGTGAATGACCTGCTTGATTAAGGGTCAACTTCGTGCTGAAGAACATCCCGC
 ATGAGGCCTTCATGTACCAGAAAGACTCAGACCCAGAGTTTCGATTTTCAGACAAATCACCCCAACATCTT
 CCCCTACCTCCTAGTCAACATTGGCTCTGGCGTCTCCATCGTGAAGGTGGAGATAGAGGACCGGTTTGAG
 TGGATTGGTGGAAAGCTCCATTGGAGGAGGCACCTTCTGGGGCCTCGGGGCTCTGCTCACCAAAACAAGA
 AGTTTGATGAGCTGCTGCAGCTGGCTTTCAGAGGCCGGCATGCCAACGTTGACATGCTGGTCCAGGACAT
 CTATGGTGGGGCCACCAGACCCTGGGCCTGAGTGGCAATCTCATCGAAGCAGTTTTGGGAAGTCAGCC
 ACTGCTGACAGAGAGTTCTCAAAGAAGACATGGCCAAGAGCCTGCTGCACATGATCAGCAATGACATCG
 GGCAGCTCGCCTGTCTGTACGCCAAGCTCCACGGCTTGGACAGGGTCTACTTTGGGGGCTTCTTCATCCG
 GGGTACCCCGTGACCATGCGCACAAATCACCTACAGCATTAACTTCTTCTCAAGGGTGAAGTCCAGGCA
 CCCTTCTGAGACATGAAGGCTACCTGGGAGCCATCGGGCATTTTTAAAAGGAGCCGAGCAAGACAATC
 CTAAACAGTACAGCTGGGGTGAAGTACGCAGCCAGCTCGGGGCTGATGAGCAGCTCGCCGAGCTGTG
 CCGGACACAGCGGGCAAGGAGCGGCACATTTGACCTGCTGGAAATGGACCGGCTGGAGAGGCCCTGGTC
 AACCTGCCCTCCTCCTGGACCCGCTCCTATGTGCCTGACACAGTAGACCTCACTGATGATGCTCTGG
 CCCGTCAGTACTGGCTCACGTGCTTTGAGGAGGCCCTGGATGGGGTGGTGAAGCGAGCTGTGGCCAGCCA
 GCCAGAGTCCATGGATGCAGTTGAGAGGGCAGAGAAAATCCGGCAGAAATACTGGGGCAAATGCAGACC
 CTCCGGCACCAGCCCTTTGCTTATGGGACATTGACTGTGCGCAGCCTGTTGGACACAAGAGAACTGTT
 TGAATGAATCAACTCCAGATCCCTACTCCAAGGTGAAGCAGAAAGAAAACGGCCTCGCACTAAAATG
 CTTTCAGAGCGTGACGCGCTCGCTGGACTCACTAGGCTGGGAAGAGCGGCAGCTGGCCCTGGTGAAGGG
 CTCTTAGCTGGGAATGTCTTTGACTGGGAGCCAAGGCTGTGTCTGATGTCTGGAATCGGACCCCACT
 TTGGGTTTGAAGAAGCAAAGAGAAAATGCAAGAACGGCCCTGGCTCGTGGATTCTACACCAAGTGGCT
 CCAGAGGTTAAAGGGGCCCTCATAAATGTGCCTTAATTTTCGCAGATAACAGTGGAAATAGACATCATT
 TTGGGAGTCTTCCCTTTGTGAGGGAGCTACTCTTTAGAGGGACAGAGGTCATCTTGGCATGCAACTCAG
 GCCCTGCCCTGAACGATGTGACCTACAGTGAAGTCTCTCATTGTGGCAGAACGCATTGCAGCCATGGACCC
 CATCATCTGCACTGCTCTGAGAGAAGATAGGCTGCTGCTGGTGCAGACCGGTTCCAGCTCTCCATGCCTA
 GACCTCAGCTTGTGTACATCTCGGACAACAATGCATGGTTTTACCTTTTGCCATGTGGTTCTGTGGA
 CCAAATCAAGTCAATGGTAGAAAAGTGCCTAAGCCATTGAGCATCCTGCTGGCCTGTTCAAGTCTTTT
 TGCAAAGAGCCGCTAGACAAGGGACTGGCTGTGCTGGTGGAGAGCGTGGTGGCCGACCTGGTCTGATC
 GAGGGAATGGGCCGTGCCATCCACACCAACTACCATGCATTGCTGCGCTGCGAGAGTCTGAAGCTGGCAG
 TGGTAAAGAACGCTTGGCTGGCAGAGCGTCTAGGTGGCCAGCTCTCAGTGCATCTTCAAGTACGAGGT
 TCTACCAAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: BC050089
Insert Size: 2463 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:	BC050089 , AAH50089
RefSeq Size:	2739 bp
RefSeq ORF:	2462 bp
Locus ID:	269614
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]