

Product datasheet for **MR226434**

Pank2 (NM_153501) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pank2 (NM_153501) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pank2
Synonyms:	4933409I19Rik; AI642621
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226434 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGAGCGGGCCGGTTTGGCGCCTATGGAGCGCCAGGGCAGGGCTGCCGCCACCTCAGCCGCGGTCCG
 GCGAGTCTGCGGACTCGGAAGCGCGGAGCGGGACCCGCTGAGGCGCCGGCGAGTAGCGCGGCCGCGTC
 GGGTCCGGGAGGCGGAGAGTGTGAGACGGGAGCGGCCGCTCTCTAGGCGGCTCCACCTCGGCCGGC
 CGCCCGCGCGCAAGGCCTCCGGAAGAGGCGGCCGCTTTTTCCATGGTTTGGCTTGGATATTGGAGGAA
 CCTTGGTCAAGCTGGTTATTTTGAACCTAAAGACATCACTGCTGAAGAAGAAAAGGAGGAAGTGGAGAG
 TCTGAAAAGCATCCGGAAGTACCTGACCTCCAATGTGGCTTACGGATCCACAGGCATTCCGGACGTGCAC
 CTTGAGCTGAAGGACCTGACTCTGTGTGGACGCAAAGGCAATCTGCACCTTATACGCTTTCCACCCATG
 ACATGCCTGCTTTTATTCAGATGGGCAGAGATAAAAACCTCTCAAGTCTCCACACTGTCTTTTGTGCCAC
 TGGAGGTGGATCATAAAATTTGAGCAGGATTTCTCACAATAGGTGACCTTCAGCTTCGAAAACCTGGAT
 GAACTAGATTGCTTAATAAAAGGAATTTATACATTGACTCAGTTGGATTCAATGGACGGTCACAGTGCT
 ATTATTTTGAACCCTGCTGATTCTGAAAAATGTCAGAAGTTACCATTGATTTAAAAATCCATATCC
 TCTGCTTCTGGTGAACATCGGCTCAGGGTTAGCATCTTAGCAGTGTATTCCAAAGATAATTATAAGAGG
 GTCACAGGCACCACTCTGGAGGAGGAACCTTCTTTGGTCTCTGCTGTCTTACTGGCTGTAGTACTT
 TTGAAGAAGCTCTTGAGATGGCATCTCGTGGAGATAGCACAAAGTGGACAAATAGTTCGAGACATTTA
 TGGAGGAGACTATGAGAGTTTGGCTTGCCAGGCTGGGCTGTGGCTTCAAGTTTTGGAACATGATGAGC
 AAGGAGAAGAGAGGCGGCCAGTAAGGAGGATCTGCCAGAGCAACTTGTATCACCATCACCAACAACA
 TTGGCTCCATAGCAAGAATGTGTCCCTTAATGAAAACATTAACCAGTGTATTTGTCGGCAATTTCTCT
 GAGAGTCAACACGATTGCTATGCGGCTTCTGGCGTATGCGCTGGATTACTGGTCCAAAGGGCAGCTGAAA
 GCACTGTTTTCCGAGCACGAGGGATATTTGGAGCCGTTGGAGCACTCCTCGAGCTGTTGAAGATACCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226434 protein sequence
 Red=Cloning site Green=Tags(s)

MGAGRFGAPMERQGRAAATSAAVGESADSEARRRDPLRRRASSAAPSGSGEAEVRRERPGSLGGSTSAG
 RPRAEGLRKRPLFPWFGLDIGGTLVKLYFEPKDIATAEEEEVEESLKSIRKYLTSNVAYGSTGIRDVH
 LELKDLTLCGRKGNLHFIRFPTHMPAFIQMGRDKNFSSLHTVFCATGGGSYKFEQDFLTIGDLQRLKLD
 ELDCLIKGILYIDSVGFNGRSQCYFENPADSEKQKLPFDLKNPYPLLLVNIIGSGVSI LAVYSKDNKYR
 VTGTSLGGTFFGLCCLLTGCSTFEEALEMASRGDSTKVDKLVVDIYGGDYERFGLPGWAVASSFGNMMS
 KEKREAASKEDLARATLITITNIGSIARMCALNENINQVVFVGNFLRVNTIAMRLLAYALDYWSKGQLK
 ALFSEHEGYFGAVGALLELLKIP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_153501

ORF Size: 1332 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_153501.2](#), [NP_705721.2](#)

RefSeq Size: 4266 bp

RefSeq ORF: 1332 bp

Locus ID: 74450

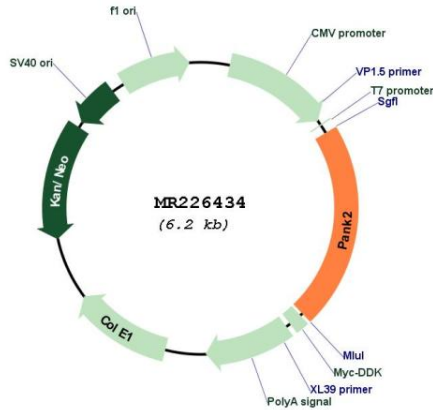
UniProt ID: [Q3U4S0](#)

Cytogenetics: 2 F1

MW: 48.6 kDa

Gene Summary: Catalyzes the phosphorylation of pantothenate to generate 4'-phosphopantothenate in the first and rate-determining step of coenzyme A (CoA) synthesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226434