

Product datasheet for **MG226434**

Pank2 (NM_153501) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pank2 (NM_153501) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pank2
Synonyms:	4933409I19Rik; A1642621
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226434 representing NM_153501 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGCGGGCCGGTTTGGCGCCTATGGAGCGCCAGGGCAGGGCTGCCGCCACCTCAGCCGCGGTCTG
GCGAGTCTGCGGACTCGGAAGCGCGGAGGCGGGACCCGCTGAGGCGCGGGCGAGTAGCGCGCGCCGTC
GGGGTCCGGGAGGCGGAGAGTGTGAGACGGGAGCGGCCCGCTCTAGGCGGCTCCACCTCGGCCGC
CGCCCGCGGCCAAGGCTCCGAAGAGGCGGCCGCTTTTTCCATGGTTTGGCTTGGATATTGGAGGAA
CCTTGGTCAAGCTGGTTATTTGAACCTAAAGACATCACTGCTGAAGAAGAAAAGGAGGAAGTGGAGAG
TCTGAAAAGCATCCGGAAGTACCTGACCTCCAATGTGGCTTACGGATCCACAGGCATTCCGGACGTGCAC
CTTGAGCTGAAGGACCTGACTCTGTGTGGACGCAAGGCAATCTGCACCTTATACGCTTTCCACCCATG
ACATGCCTGCTTTTATTAGATGGGCAGAGATAAAAATTCTCAAGTCTCCACACTGTCTTTTGTGCCAC
TGGAGGTGGATCATACAAATTTGAGCAGGATTTTCTACAATAGGTGACCTTCAGCTTCGAAAATGGAT
GAACTAGATTGCTTAATAAAAGGAATTTATACATTGACTCAGTTGGATTCAATGGACGGTCACAGTGCT
ATTATTTGAAAACCTGCTGATTCTGAAAATGTCAGAAGTTACCATTTGATTTAAAAATCCATATCC
TCTGCTTCTGGTGAACATCGGCTCAGGGTTAGCATCTTAGCAGTGTATTCCAAAGATAATTATAAGAGG
GTCACAGGCACCAAGTCTTGGAGGAGGAACCTTTTGGTCTCTGCTGCTTCTTACTGGCTGATGACTT
TTGAAGAAGCTCTTGAGATGGCATCTCGTGGAGATAGCACCAAAGTGGACAAATTAGTTCGAGACATTTA
TGGAGGAGACTATGAGAGGTTTGGCTTGCAGGCTGGGCTGTGGCTTCAAGTTTTGGAAACATGATGAGC
AAGGAGAAGAGAGAGGCGGCCAGTAAGGAGGATCTTGCCAGAGCAACTTTGATCACCATACCAACAACA
TTGGCTCCATAGCAAGAATGTGTGCCCTTAATGAAAACATTAACCAGGTCGATTTGTCGGCAATTTCT
GAGAGTCAACACGATTGCTATGCGGCTTCTGGCGTATGCGCTGGATTACTGGTCCAAGGGGCAGCTGAAA
GCACTGTTTTCCGAGCACGAGGGATATTTGGAGCCGTTGGAGCACTCCTCGAGCTGTTGAAGATACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226434 representing NM_153501
 Red=Cloning site Green=Tags(s)

MGAGRFGAPMERQGRAAATSAAVGESADSEARRRDPLRRRASSAAPSGSGEAEVRRRERPGSLGGSTSAG
 RPRAEGLRKRRLFPWFGLDIGGTLVKLYVFEPKDITAEKEEVEESLKSIRKYLTSNVAYGSTGIRDVH
 LELKDLTLCGRKGNLHFIRFPTHDMPAFIQMRDKNFSSLHTVFCATGGGSYKFEQDFLTIGDLQLRKLD
 ELDCLIKGILYIDSVGFNGRSQCYFFENPADSEKQKLPFDLKNPYPLLLVNIIGSGVSI LAVYSKDNKYR
 VTGTSLGGGTFGLCCLLTGCSTFEEALEMASRGDSTKVDKLVLDIYGGDYERFGLPGWAVASSFGNMMS
 KEKREAASKEDLARATLITITNNIGSIARMCALNENINQVVFVGNFLRVNTIAMRLLAYALDYWSKGQLK
 ALFSEHEGYFGAVGALLELLKIP

TRTRPLE – GFP Tag – V

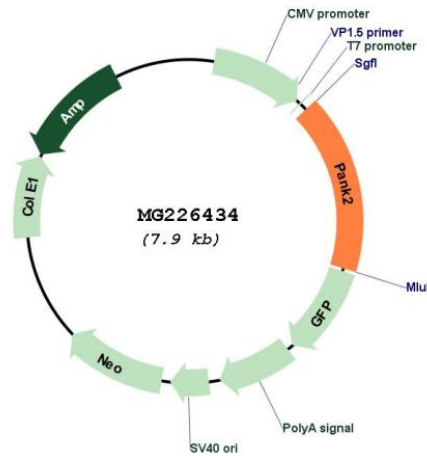
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_153501

ORF Size:	1329 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:	<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_153501.2 , NP_705721.2
RefSeq Size:	4266 bp
RefSeq ORF:	1332 bp
Locus ID:	74450
UniProt ID:	Q3U4S0
Cytogenetics:	2 F1
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]