

Product datasheet for **RG203696**

PANK3 (NM_024594) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PANK3 (NM_024594) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PANK3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203696 representing NM_024594 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGATCAAAGATGCCAAGAAACCCTCTTCCCATGGTTTGGCATGGACATTGGGGAACTCTAGTAA
AGCTCTCGTACTTTGAACCTATTGATATCACAGCAGAGGAAGAGCAAGAAGAAGTTGAGAGTTAAAAAG
TATTCGGAAATATTTGACTTCTAACGTGGCATAATGGATCCACCGGCATTCGGGATGTACACCTTGAACCTG
AAAGATTTAACACTTTTTGGCCGAAGAGGGAACCTGCACCTTATCAGGTTTCCAACCCAGGACCTGCCTA
CTTTTATCCAAATGGGAAGAGATAAAAACCTTCTCAACATTGCAGACGGTGCTATGTGCTACAGGAGGTGG
TGCTTACAAGTTTGAAAAGATTTTCGCACAATTGGAAACCTCCACCTGCACAAACTGGATGAACCTTGAC
TGCCCTGTAAAGGGCTTGCTGTATATAGACTCTGTGAGTTTCAATGGACAAGCCGAGTGCTATTATTTTG
CTAATGCCTCAGAACCTGAGCGATGCCAAAAGATGCCTTTAACCTGGATGATCCCTATCCACTGCTTGT
AGTGAACATTGGCTCAGGAGTCAGTATTTAGCAGTCCATTCCAAGACAATAAAACGAGTGACTGGG
ACAAGCCTTGGAGGGGTACCTTTCTGGGTTTATGCAGTTTATTGACTGGCTGTGAAAGTTTGAAGAGG
CTCTTGAAATGGCATCCAAAGGTGATAGCACACAAGCTGACAAGCTGGTCCGTGATATTTATGGAGGAGA
TTATGAAAGATTTGGTTTGGCAGGTTGGCTGTAGCATCTAGTTTGGGAATATGATTTATAAGGAGAAG
CGAGAATCTGTTAGTAAAGAAGATCTGGCAAGAGCTACTTTAGTTACTATCACCAATAACATTGGTTCTG
TGGCACGAATGTGTGCTGTTAATGAGAAAATAAACAGAGTTGTCTTTGTTGGAACTTTTTACGTGTCAA
TACCCTCTCAATGAACTTTTGGCATATGCACTGGATTACTGGTCAAAAGGTCAACTAAAAGCATTGTTT
CTAGAACATGAGGGTTACTTTGGAGCAGTTGGTGCACCTCTTGGGCTGCCAAATTCAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG203696 representing NM_024594
 Red=Cloning site Green=Tags(s)

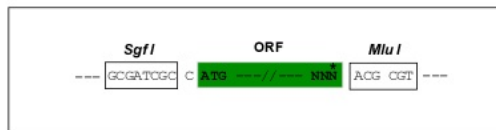
MKIKDAKKPSFPWFGMDIGGTLVKLSYFEPIDITAEQQEEVESLKSIRKYLTSNVAYGSTGIRDVHLEL
 KDLTLFGRRGNLHFIRFPTQDLPTFIQMGRDKNFSTLQTVLCATGGGAYKFEKDFRTIGNLHLHLKLELD
 CLVKGLLYIDSVSFNGQAECYFANASEPERCQKMPFNLDPPYLLVNIIGSGVSI LAVHSKDNYKRVTG
 TSLGGGTFLLGLCSLLTGCESEFEALEMASKGDSTQADKLVVDIYGGDYERFGLPGWAVASSFGNMIYKEK
 RESVSKEDLARATLVTITNNIGSVARMCAVNEKINRVVFVGNFLRVNTLSMKLLAYALDYWSKGLKALF
 LEHEGYFGAVGALLGLPNFS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_024594

ORF Size: 1110 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_024594.4](#)

RefSeq Size: 3359 bp

RefSeq ORF: 1113 bp

Locus ID: 79646

UniProt ID: [Q9H999](#)

Cytogenetics: 5q34

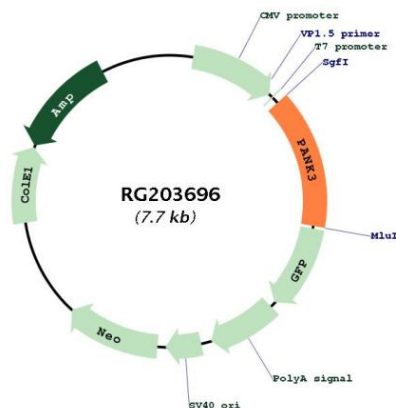
Domains: Fumble

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Pantothenate and CoA biosynthesis

Gene Summary: This gene encodes a protein belonging to the pantothenate kinase family. 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 CoA. This family member is expressed most abundantly in the liver. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG203696