

Product datasheet for **RC208116**

PANK4 (NM_018216) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PANK4 (NM_018216) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PANK4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208116 representing NM_018216
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGAGTGTGGAGCGAGCGGCAGCGGGAGCAGCGGGACAGTCTGGACAAGAGCATCACGCTGCCCC
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AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
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Protein Sequence: >RC208116 representing NM_018216
Red=Cloning site Green=Tags(s)

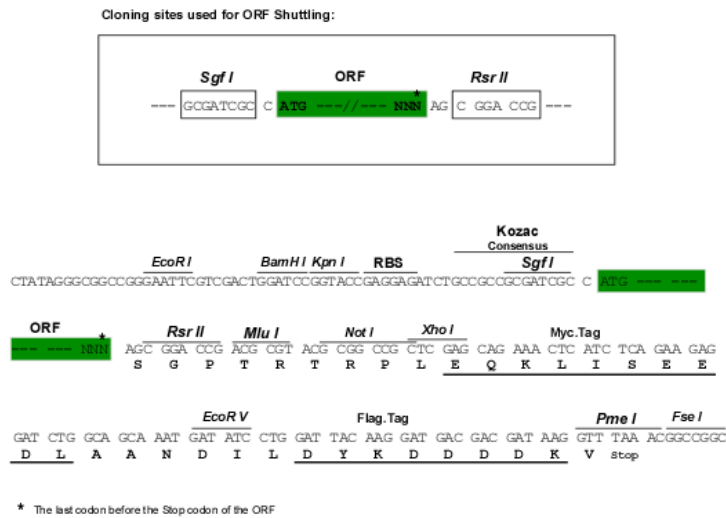
MAECGASGSGSSGDSLDKSITLPPDEIFRNLENAKRFAIDIGGSLTKLAYYSTVQHKVAKVRSFDHSGKD
TEREHEPPYEISVQEEITARLHFIFKENTYIEACLDIFIKDHLVNTETKVIQATGGGAYKFKDLIEEKLRL
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WVGGSSIGGGTFWGLGALLTKTKKFDELLHLASRGQHSNVDMVLRDVYGGAHQTLGLSGNLIASSFGKSA
TADQEFKEDMAKSLHMSNDIGQLACLHARLHSLDRVYFGGFFIRGHPVTMRTITYSINFFSKGEVQA
LFLRHEGYLGAIGAFKGAEQDNPQYSWGNYAGSSGLMSASPELGPAQRARSQTFDLEMDRLERPLV
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LLAGNVFDWGAKAVSAVLESDPYFGFEEAKRKLQERPWLVDSEYSEWLQRLKGPPhKCALIFADNSGIDII
LGVFPFVRELLLRGTEVILACNSGPALNDVTHSESLIVAERIAGMPPVHSALQEERLLL VQTGSSSPCL
DLSRLDKGLAALVREGADLVVIEGMGRAVHTNYHAALRCESLKLAVIKNAWLAERLGGRLFSVIFKYEV
PAE

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8113_e12.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_018216

ORF Size: 2319 bp

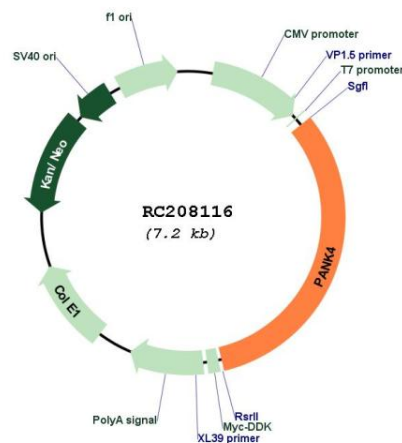
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_018216.1 , NP_060686.1
RefSeq Size:	2642 bp
RefSeq ORF:	2322 bp
Locus ID:	55229
UniProt ID:	Q9NVE7
Cytogenetics:	1p36.32
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Pantothenate and CoA biosynthesis
MW:	85.99 kDa
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 most abundant in muscle but is expressed in all tissues. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC208116