

Product datasheet for **RG200975**

PDXK (NM_003681) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDXK (NM_003681) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PDXK
Synonyms:	C21orf97; C21orf124; HEL-S-1a; HMSN6C; PKH; PNK; PRED79
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200975 representing NM_003681 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGGAGTGCCGGGTGCTCTCCATACAGAGCCACGTCATCCGCGGCTACGTGGGCAACCGGGCGG
CCACGTTCCCGCTGCAGGTTTTGGGATTTGAGATTGACGCGGTGAACTCTGTCCAGTTTTCAAACACAC
AGGCTATGCCACTGGAAGGGCCAAGTGTGAATTCAGATGAGCTCCAGGAGTTGTACGAAGGCCTGAGG
CTGAACAACATGAATAAATGACTACGTGCTCACAGTTATACGAGGGACAAGTCGTTCTGGCCATGG
TGTTGGACATTGTGCAGGAGCTGAAGCAGCAGAACCCAGGCTGGTGTACGTGTGTGATCCAGTCTTGGG
TGACAAGTGGGACGGCGAAGGCTCGATGTACGTCCCGGAGGACCTCCTCCCGTCTACAAAGAAAAGTG
GTGCCGCTTGACACATTATCACGCCAACCAAGTTTGGAGCCGAGTTACTGAGTGGCCGGAAGATCCACA
GCCAGGAGGAAGCCTTGCGGGTGTGACATGCTGCACCTATGGGCCCGACACCGTGGTCCATCCAG
CTCCGACCTGCCATCCCCGAGGGCAGCAACTACCTGATTGTGCTGGGGAGTCAGAGGAGGAGGAATCCC
GCTGGCTCCGTGGTGTGGAACGCATCCGGATGGACATTCGAAAAGTGGACGCCGCTTTTGTGGGCACTG
GGGACCTGTTTGTGCTGCCATGCTCCTGGCGTGGACACACAAGCACCCCAATAACCTCAAGTGGCCTGTGA
GAAGACCGTGTCTACCTTGACACAGTTCTGCAGAGGACCATCCAGTGTGCAAAAGCCCAGGCCGGGAA
GGAGTGAGGCCAGCCCCATGCAGCTGGAGCTGCGGATGGTGCAGAGCAAAGGGACATCGAGGACCCAG
AGATCGTCGTCCAGGCCACGGTGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG200975 representing NM_003681
 Red=Cloning site Green=Tags(s)

MEEECRVLSIQSHVIRGYVGNRAATFPLQVLGFEIDAVNSVQFSNHTGYAHWKQVLSDELQELYEGLR
 LNNMNKYDYVL TGYTRDKSFLAMVVDIVQELKQQNPRLVYVCDPVLGDKWDGEGSMYVPEDLLPVYKEKV
 VPLADIITPNQFEAELL SGRKIHSQEEALRVMDMLHSMGPDTVVITSSDLPSPQGSNYLIVLGSQRRRNP
 AGSVVMERIRMDIRKVDVAVFVGTGDLFAAMLLAWTHKHPNNLKVACEKTVSTLHHVLQRTIQCAKAQAGE
 GVRPSPMQLELRMVQSKRDIEDPEIVVQATVL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003681

ORF Size: 936 bp

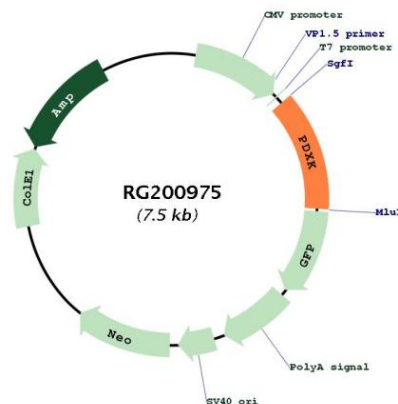
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_003681.3 , NP_003672.1
RefSeq Size:	7380 bp
RefSeq ORF:	939 bp
Locus ID:	8566
UniProt ID:	O00764
Cytogenetics:	21q22.3
Domains:	pfkB
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Vitamin B6 metabolism
Gene Summary:	The protein encoded by this gene phosphorylates vitamin B6, a step required for the conversion of vitamin B6 to pyridoxal-5-phosphate, an important cofactor in intermediary metabolism. The encoded protein is cytoplasmic and probably acts as a homodimer. Alternatively spliced transcript variants have been described, but their biological validity has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200975