

Product datasheet for **RC403205**

PKN beta (PKN3) (NM_013355) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	PKN beta (PKN3) (NM_013355) Human Mutant ORF Clone
Mutation Description:	W346X
Affected Codon#:	346
Affected NT#:	1038
Nucleotide Mutation:	PKN3 Mutant (W346X), Myc-DDK-tagged ORF clone of Homo sapiens protein kinase N3 (PKN3) as transfection-ready DNA
Effect:	Protein deficiency
Symbol:	PKN3
Synonyms:	UTDP4-1
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_013355
ORF Size:	1035 bp
Restriction Sites:	SgfI-MluI



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ORF Nucleotide Sequence:

>RC403205 representing NM_013355
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGAGGGGGCGCCGCGGCAGCCTGGGCCAGCCAGTGGCCCCAGAGGATGAGAAGGAGGTGATCC
 GCCGGGCATCCAGAAAGAGCTGAAGATCAAGGAGGGGTGGAGAACCTGCGGCGGTGGCCACAGACCG
 CCGCCACTTGGCCATGTGCAGCAGCTGCTGCGGTCTCCAACCGCCGCTGGAGCAGCTGCATGGCGAG
 CTGCGGGAGCTGCACGCCGAATCCTGTGCCCGCCCTGGCCTGGCCAGCTGAGCCTGTGGCCTCAG
 GACCCCGCCGTGGGAGAGCAGCTCAGGGCTCGGCACCTAGAGGCTCTCCGAGGCAGCTGCATGTGA
 GCTGAAGGTGAAGCAGGGGGCTGAGAACATGACCCACACGTGCGCCAGTGGCACCCCAAGGAGAGGAAG
 CTCTGGCAGCTGCCAGCAGATGCTGCGGGACAGCCAGCTGAAGGTGGCCCTGCTGCGGATGAAGATCA
 GCAGCCTGGAGCCAGTGGGTCCCCGGAGCCAGGGCCTGAGCTGCTGGCGGAGGAGCTACAGCATCGACT
 GCACGTTGAGGCAGCTGTGGCTGAGGGCGCCAAGAACGTGGTGAACCTGCTTAGTAGCCGGAGAACACAG
 GACCGCAAGGCACTGGCTGAGGCCAGGCCAGCTACAGGAGTCTCTCAGAAACTGGACCTCCTGCGCC
 TGGCCTTGAGAGCAGCTGCTGGAGCAACTGCCTCCTGCCACCCCTTTGCGCAGCAGAGTGACCCGAGAGTT
 GCGGGTGCAGTGCCTGGATACCCAGCCTTCAGGGACACCTGTGAAGCCACCGCCCTAACAGGGACA
 CTGCAGTCCGCCTCCTGGGCTGTGAACAGTTGCTGACAGCCGTGCCTGGGCGCTCCCCAGCGGCCGCAC
 TGGCCAGCAGCCCTCCGAGGGCTGGCTTCGGACCAAGGCCAAGCACCAGCGTGGCCGAGGCGAGCTTGC
 CAGCGAGGTGCTGGCTGTGCTAAAGGTGGACAACCGTGTGTGGGGCAGACGGGC

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC403205 representing NM_013355
 Red=Cloning site Green=Tags(s)

MEEGAPRQPGPSQWPPEDEKEVIRRAIQKELKIKEGVENLRRVATDRRHLGHVQQLLRSSNRRLEQLHGE
 LRELHARILLPGPGPAEPVASGPRPWAEQLRARHLEALRRQLHVELKVKQGAENMHTCASGTPKERK
 LLAAAQQLRDSQLKVALLRMKISSLEASGSPEPGPELLAEELQHRLHVEAAVAEGAKNVVLLSSRRTQ
 DRKALAEQAQLQESSQKLDLLRLALEQLLEQLPPAHLRSRVRELRAAVPGYPQPSGTPVKPTALTGT
 LQVRLLGCEQLLTAVPGRSPAALASSPSEGWLRTKAKHQGRGELASEVLAVLKVDNRVVGQTG

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



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).

RefSeq:

[NP_037487](#)

RefSeq Size:

1035 bp

RefSeq ORF:

2670 bp

Locus ID:

29941

Cytogenetics:

9q34.11

Protein Families:

Druggable Genome, Protein Kinase

MW:

38 kDa

Gene Summary:

Contributes to invasiveness in malignant prostate cancer.[UniProtKB/Swiss-Prot Function]