

Product datasheet for **RC209134**

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

Product data:

Product Type:	Expression Plasmids
Product Name:	PKN beta (PKN3) (NM_013355) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PKN beta
Synonyms:	UTDP4-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209134 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGAGGGGGCGCCGCGCAGCCTGGGCCAGCCAGTGGCCCCAGAGGATGAGAAGGAGGTGATCC
 GCCGGGCCATCCAGAAAGAGCTGAAGATCAAGGAGGGGTGGAGAACCCTGCGGCGCGTGGCCACAGACCG
 CCGCCACTTGGGCCATGTGCAGCAGCTGCTGCGGTCTCCAACCGCCCTGGAGCAGCTGCATGGCGAG
 CTGCGGGAGCTGCACGCCGAATCCTGCTGCCGGCCCTGGGCCTGGCCAGCTGAGCCTGTGGCCTCAG
 GACCCCGCCGTGGGAGAGCAGCTCAGGGCTCGGCACCTAGAGGCTCTCCGGAGGCAGCTGCATGTGGA
 GCTGAAGTGAAGCAGGGGGCTGAGAACATGACCCACACGTGCGCCAGTGGCACCCCAAGGAGAGGAAG
 CTCTGGCAGCTGCCAGCAGATGCTGCGGGACAGCCAGCTGAAGGTGGCCCTGCTGCGGATGAAGATCA
 GCAGCCTGGAGGCCAGTGGTCCCCGGAGCCAGGGCCTGAGCTGCTGGCGGAGGAGCTACAGCATCGACT
 GCACGTTGAGGCAGCTGTGGCTGAGGGGCCAAGAACGTGGTAAACTGCTTAGTAGCCGAGAACACAG
 GACCGAAAGCAGCTGGCTGAGGCCAGGCCAGCTACAGGAGTCTCTCAGAAACTGGACCTCTGCCCC
 TGGCCTTGGAGCAGCTGCTGGAGCAACTGCCTCCTGCCACCCCTTTCGCGAGCAGAGTGACCCGAGAGTT
 GCGGGCTGCGGTGCCTGGATACCCCGAGCCTTCAGGGACACCTGTGAAGCCACCGCCCTAACAGGGACA
 CTGCAGTCCGCCTCTGGGCTGTGAACAGTTGCTGACAGCCGTGCCTGGGCGCTCCCCAGCGGCCGCAC
 TGGCCAGCAGCCCTCCGAGGGCTGGCTTCGGACCAAGGCCAAGCACCAGCGTGGCCGAGGCGAGCTTGC
 CAGCGAGGTGCTGGCTGTGCTAAAGGTGGACAACCGTGTGTGGGCAGACGGCTGGGGCAGGTGGCC
 GAACAGTCTGGGACAGACCTTTGTATCCCACTGGAGCGAGCCCGTGAAGTGGAGATTGGGGTACACT
 GCGGGACTGGGCGAGCTATGTGGCTGGCCTTCTGAGACTTGAGGACTTCTGGCAATGCATGCTCA
 CCAACTGTCCCTCAGCCTGGTACCGCAGGGACTGCTTTTTGCCAGGTGACCTTCTGCGATCCTGTCA
 GAGAGGGGCCCGCTGCAGAGGCAGGAACGCATCTTCTCTAAACGCAGAGGCCAGGACTTCTGAGGG
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 GCCACTCCAGTAATTTCTGCCAAGAAGACCCCTTGGGTGAAGAGATGACACCCCAACCAAGCCCC
 CACGCCTACTCCCCAGGAGCAACATCCGAGGAGACTCCGCGACCAAACTCCCCATATGGAGCC
 TAGGACTCGACGTGGCCATCTCCACCAGCCTCCCCACCAGGAAACCCCTCGGCTTCAAGGACTCCGC
 TGCTTAGCTGTGCTGGGCGGGGACACTTTGGGAAGTCTCCTGCTCCAGTTCAAGGGGACAGGGAAT
 ACTACGCCATCAAAGCACTGAAGAAGCAGGAGGTGCTCAGCCGGACGAGATAGAGAGCCTGTACTGCGA
 GAAGCGGATCCTGGAGGCTGTGGGCTGCACAGGGCACCCCTTCTGCTCTCCCTCCTTGCCTGCTCCAG
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 ATGCTTCCCCGAGCCCCAGGCCGCTTCTACGTGGCTTGTGTTGCTGGGGCTGCAGTTCTTACACGA
 GAAGAAGATCATTTACAGGGACCTGAAGTTGGATAACCTTCTGCTGGATGCCAGGGATTCTGAAGATC
 GCAGACTTTGACTCTGCAAGGAAGGATCGGCTTCGGGACCGGACTAGCACCTTCTGTGGACCCCGG
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 ATCGTCAACATGGACGCCCTACCCCGCTTCTGTCGGTGCAAGGGCTTGAAGTTCAATCAGAAGCTCC
 TCCAGAAGTGCCCGGAGAAGCGCCTCGGGCAGGTGAGCAGGATGCCGAGGAGATCAAGGTCAGCCATT
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 GGCCCTGCGGACTGCGTACTTTGAGGGCGAGTTCACAGGGCTGCCGCTGCCCTGACCCACCTGCAC
 CCCACAGCCTCCTACTGCCCGCAACAGGCCCTTCCGGGACTTCGACTTTGTGTCAGAGCGATTCT
 GGAACCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC209134 protein sequence
 Red=Cloning site Green=Tags(s)

MEEGAPRQPGPSQWPPEDEKEVIRRAIQKELKIKEGVENLRRVATDRRHLGHVQQLLRSSNRRLEQLHGE
 LRELHARILLPGPGPAEPVASGPRPWAEQLRARHLEALRRQLHVELKVKQGAENMTHTCASGTPKERK
 LLAAAQMLRDSQLKVALLRMKISSLEASGSEPGPELLAEELQHRLHVEAAVAEGAKNVKLLSSRRTQ
 DRKALAEQAQLQESSQKLDLLRLALEQLLEQLPPAHLRSRVTRRELRAAVPGYPQPSGTPVKPTALTGT
 LQVRLLGCEQLLTAVPGRSPAALASSPSEGWLRTKAKHQGRGELASEVLAVLKVDNRVVGQTGWGQVA
 EQSWDQTFVIPLERARELEIGVHWRDWRQLCGVAFLRLEDFLDNACHQLSLSLVPOGLLFAQVTFCDPVI
 ERRPRLRQERIFSKRRGQDFLRASQMNLMGMAAWGRLVMNLLPPCSPSTISPPKGCPRPTTLREASDP
 ATPSNFLPKKTPLGEEMTPPKPPRLYLPQEPTSEETPRTRKPHMEPRTRRGSPSPASPTRKPPRLQDFR
 CLAVLGRGHFGKVLVQFKGTGKYAIAKALKQEVLSRDEIESLYCEKRILEAVGCTGHPFLLSLLACFQ
 TSSHACFVTEFVPGDLMQIHEDVFPEPQARFVACVVLGLQFLHEKKIYRDLKLDNLLDAQGLKI
 ADFGLCKEGIFGDRTSTFCGTPEFLAPEVLTQEAYTRAVDWWGLGVLLYEMLVGECPPFGDTEEEVFDC
 IVNMDAPYPGFLSVQGLEFIQKLLQKCKEKLKAGEQDAEEIKVQPFRTTNWQALLARTIQPPFVPTLC
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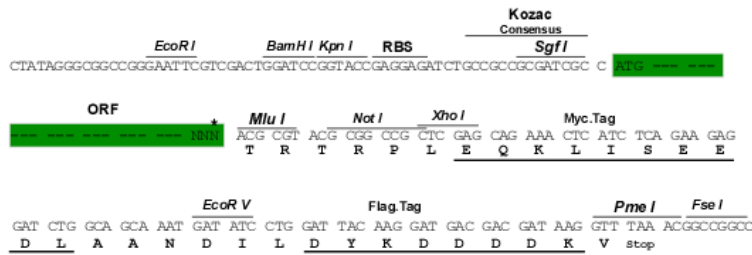
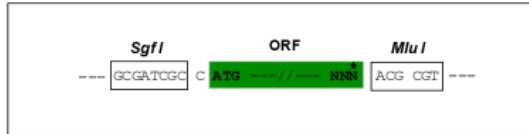
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6293_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

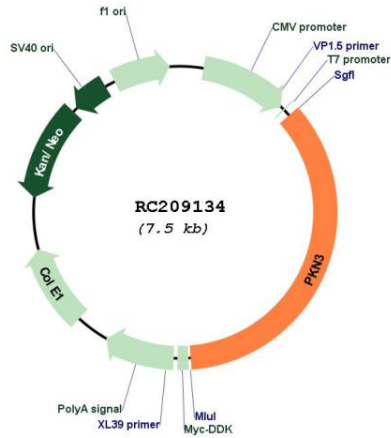


* The last codon before the Stop codon of the ORF

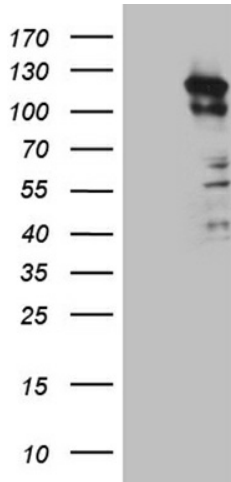
ACCN: NM_013355

ORF Size:	2667 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_013355.5
RefSeq Size:	3385 bp
RefSeq ORF:	2670 bp
Locus ID:	29941
UniProt ID:	Q6P5Z2
Cytogenetics:	9q34.11
Protein Families:	Druggable Genome, Protein Kinase
MW:	99.4 kDa
Gene Summary:	Contributes to invasiveness in malignant prostate cancer.[UniProtKB/Swiss-Prot Function]

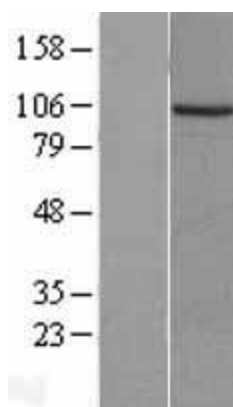
Product images:



Circular map for RC209134



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PKN3 (Cat# RC209134, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PKN3 (Cat# [TA810388])(1:2000). Positive lysates [LY415658] (100ug) and [LC415658] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY415658]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209134 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).