

## Product datasheet for **RC214342**

### **RIPK4 (NM\_020639) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RIPK4 (NM_020639) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RIPK4
Synonyms:	ANKK2; ANKRD3; CHANDS; DIK; NKRD3; PKK; PPS2; RIP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC214342 representing NM\_020639  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGGCGACGGCGGGACCCCATGGGCCTGGCGCTGCTGCGCACCTTCGACGCGGGCGAGTTACGG  
 GCTGGGAGAAGGTGGGCTCGGGCGCTTCGGGCAGGTGTACAAGGTACGCCATGTCCACTGGAAGACCTG  
 GCTGGCCATCAAGTGCTCGCCAGCCTGCACGTGACGACAGGGAGCGCATGGAGCTTTTGAAGAAGCC  
 AAGAAGATGGAGATGGCCAAGTTTCGCTACATCCTGCCTGTGTATGGCATCTGCCGCAACCTGTCGGCC  
 TGGTCAATGGAGTACATGGAGACGGGCTCCCTGGAAAAGCTGCTGGCTTCGGAGCCATTGCCATGGGATCT  
 CCGGTTCCGAATCATCCACGAGACGGCGGTGGGCATGAACTTCCTGCACTGCATGGCCCCGCCACTCCTG  
 CACCTGGACCTCAAGCCCGCAACATCCTGCTGGATGCCACTACCACGTCAAGATTTCTGATTTTGGTC  
 TGGCCAAGTGAACGGGCTGTCCACTCGCATGACCTCAGCATGGATGGCCTGTTTGGCACAATCGCCTA  
 CCTCCCTCCAGAGCGCATCAGGGAGAAGAGCCGGCTCTTCGACACCAAGCAGCATGTATACAGCTTTGCG  
 ATCGTCATCTGGGGCGTCTCACACAGAAGAAGCCGTTTGCAGATGAGAAGAATCCTGCACATCATGG  
 TGAAGGTGGTGAAGGGCCACCGCCCCGAGCTGCCGCCGTGTGCAGAGCCGGCCGCGCGCTGCAGCCA  
 CCTGATACGCCTCATGCAGCGGTGCTGGCAGGGGGATCCGCGAGTTAGGCCACCTTCCAAGAAATTA  
 TCTGAAACCGAGGACCTGTGTGAAAAGCCTGATGACGAAGTGAAGAAGAACTGCTCATGATCTGGACGTGA  
 AAAGCCCCCGGAGCCAGGAGCGAGGTGGTGCCTGCGAGGCTCAAGCGGGCCTTCGCCCCACCTTCGA  
 TAACGACTACAGCCTCTCCGAGCTGCTCTCACAGCTGGACTCTGGAGTTTCCAGGCTGTCGAGGGCCCC  
 GAGGAGCTCAGCCGAGCTCCTCTGAGTCCAAGTGCATCGTCCGGCAGTGGGAAGAGGCTCTCGGGGG  
 TGTCTCGGTGGACTCCGCTTCTTCCAGAGGATCACTGTGCTGCTTTTGGAGCGGAACTCAAC  
 CAGCGATCTGGGACCACAGACGTCCAGAAGAAGAAGCTTGTGGATGCCATCGTGTCCGGGGACACCAGC  
 AAAGTGTGAAGATCCTGCAGCCGAGGACGTGGACCTGGCACTGGACAGCGGTGCCAGCCTGCTGCACC  
 TGGCGGTGGAGGCCGGCAAGAGGAGTGCGCCAAGTGGCTGCTGCTCAACAATGCCAACCCCAACCTGAG  
 CAACCGTAGGGGCTCCACCCCGTTGCACATGGCCGTGGAGAGGAGGGTCCGGGGTGTGCTGGAGCTCCTG  
 CTGGCGCGGAAGATCAGTGTCAACGCCAAGGATGAGGACCAGTGGACAGCCCTCCACTTTGCAGCCAGA  
 ACGGGGACGAGTCTAGCACACGGCTGCTGTTGGAGAAGAAGCCTCGGTCAACGAGGTGGACTTTGAGGG  
 CCGGACGCCATGCACGTGGCCTGCCAGCACGGGCAGGAGAATATCGTGGCATCCTGCTGCGCCGAGGC  
 GTGGACGTGAGCCTGCAGGGCAAGGATGCCTGGCTGCCACTGCACTACGCTGCCTGGCAGGGCCACCTGC  
 CCATCGTCAAGCTGCTGGCCAAGCAGCCGGGGTGTGAGTGTGAACGCCAGACGCTGGATGGGAGGACGCC  
 ATTGCACCTGGCCGCACAGCGCGGGCACTACCGCGTGGCCCGCATCCTCATCGACCTGTGCTCCGACGTC  
 AACGTCTGCAGCCTGCTGGCACAGACCCCTGCACGTGGCCGCGGAGACGGGGCACACGAGCACTGCCA  
 GGCTGCTCCTGCATCGGGGCGCTGGCAAGGAGGCGGTGACCTCAGACGGCTACACCGCTCTGCACCTGGC  
 TGCCCCAACGGACACCTGGCCACTGTCAAGCTGCTTGTGAGGAGAAGGCCGATGTGCTGGCCCGGGGA  
 CCCCTGAACCAGACGGCGCTGCACCTGGCTGCCGCCACGGGCACTCGGAGGTGGTGGAGGAGTTGGTCA  
 GCGCCGATGTATTGACCTGTTTCGACGAGCAGGGGCTCAGCGCGCTGCACCTGGCCGCCAGGGCCGGCA  
 CGCACAGACGGTGGAGACTCTGCTCAGGCATGGGGCCACATCAACCTGCAGAGCCTCAAGTTCCAGGGC  
 GGCCATGGCCCCGCCACACTCCTGCCGCAAGCAAGACC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC214342 representing NM\_020639  
Red=Cloning site Green=Tags(s)

MEGDGGTPWALALLRTFDAGEFTGWEKVGSGGFGQVYKVRHVHWKTWLAIKCSPSLHVDDRERMELLEEA  
KKMEMAKFRYILPVYIGICREPVGLVMEYMETGSLEKLLASEPLPWDLRFRIIHETAVGMNFLHCMAPLL  
HLDLKPANILLDAHYYVKISDFGLAKCNGLSHSHDLSMDGLFGTIAYLPPERIREKSRLFDTKHDVYSFA  
IVIWGLVLTQKKPFADEKNILHIMVVKVKGHRPELPPVCRARPRACSHLIRLMQRCWQGDPRVRPTFQEIT  
SETEDLCEKPDDEVKETAHDLDVKSPPEPRSEVVPARLKRASAPTFDNDYSLSELLSQLDSGVSQAVEGP  
EELSRSSSESKLPSGSGKRLSGVSSVDSAFSSRGSLSLSEFEREPSTSDLGTTDVQKKLVDAIVSGDTS  
KLMKILQPQDVLALDSGASLLHLAVEAGQECAKWLNNANPNLSNRRGSTPLHMAVERRVRGVVELL  
LARKISVNAKDEDQWTALHFAAQNGDESSTRLLLEKNASVNEVDFEGRTPMHVACQHQENIVRILLRRG  
VDVSLQGKDAWLPLHYAAWQGHLPVVKLLAKQPGVSVNAQTLDGRTPLHLAAQRGHYRVARILIDLCSDV  
NVCSLLAQTPLVAAETGHTSTARLLLHRGAGKEAVTSDGYTALHLAARNGHLATVKLLVEEKADVLARG  
PLNQTALHAAAAGHSEVVEELVSADVIDLFDEQGLSALHLAAQGRHAQTVETLLRHGAHINLQSLKFGQ  
GHGPAATLLRRSKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



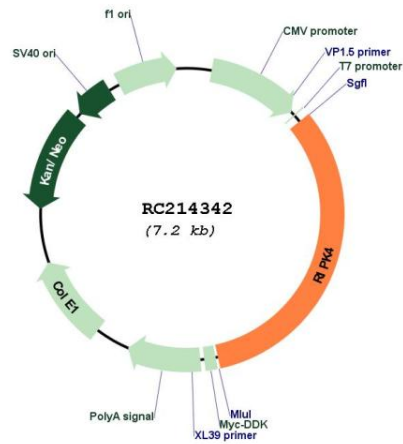
\* The last codon before the Stop codon of the ORF

ACCN: NM\_020639

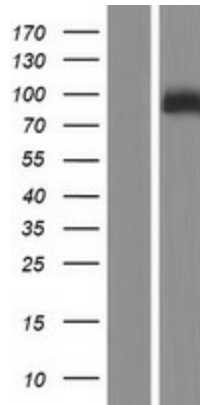
ORF Size: 2352 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_020639.3</a>
<b>RefSeq Size:</b>	3890 bp
<b>RefSeq ORF:</b>	2355 bp
<b>Locus ID:</b>	54101
<b>Cytogenetics:</b>	21q22.3
<b>Domains:</b>	pkinase, TyrKc, ANK, S_TKc
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>MW:</b>	86.3 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a serine/threonine protein kinase that interacts with protein kinase C-delta. The encoded protein can also activate NFkappaB and is required for keratinocyte differentiation. This kinase undergoes autophosphorylation. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC214342



Western blot validation of overexpression lysate (Cat# [LY412414]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214342 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).