

# Product datasheet for RC209748

### PRPK (TP53RK) (NM\_033550) Human Tagged ORF Clone

### **Product data:**

#### **Product Type: Expression Plasmids Product Name:** PRPK (TP53RK) (NM\_033550) Human Tagged ORF Clone Tag: Myc-DDK Symbol: PRPK Synonyms: BUD32; C20orf64; dJ101A2; GAMOS4; Nori-2; Nori-2p; PRPK; TPRKB Mammalian Cell Neomycin Selection: Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL) >RC209748 ORF sequence **ORF** Nucleotide Red=Cloning site Blue=ORF Green=Tags(s) Sequence: TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

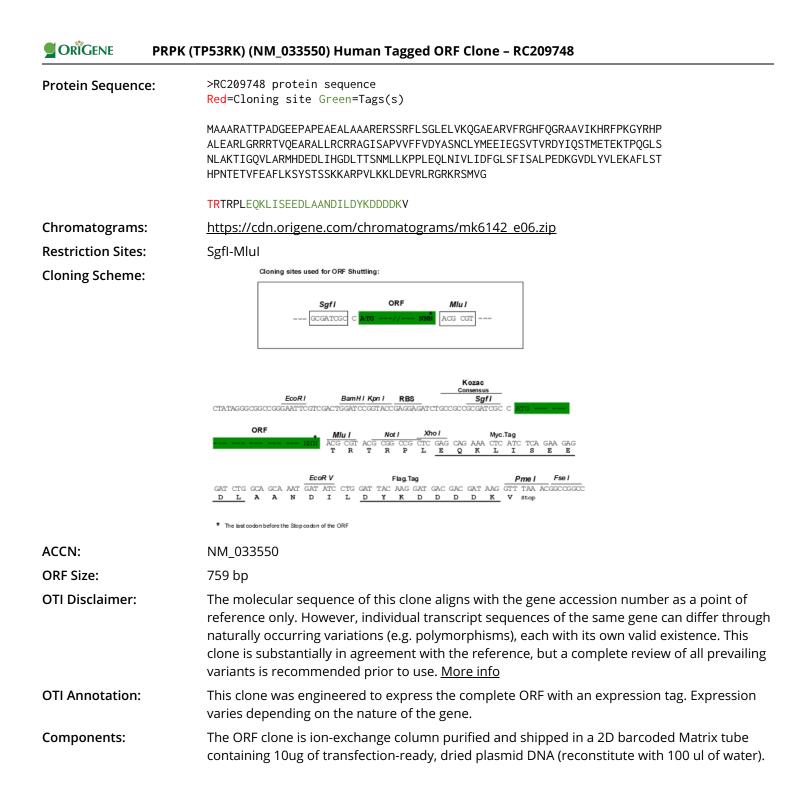




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### OriGene Technologies, Inc.

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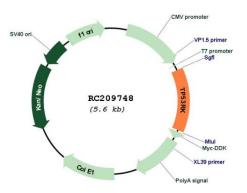
## **PRPK (TP53RK) (NM\_033550) Human Tagged ORF Clone – RC209748**

Reconstitution Method:	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM 033550.4</u>
RefSeq Size:	3384 bp
RefSeq ORF:	762 bp
Locus ID:	112858
UniProt ID:	<u>Q96S44</u>
Cytogenetics:	20q13.12
Domains:	S_TKc, KOW
Protein Families:	Druggable Genome, Protein Kinase
MW:	28.1 kDa
Gene Summary:	Component of the EKC/KEOPS complex that is required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t(6)A37) in tRNAs that read codons beginning with adenine (PubMed:22912744, PubMed:27903914). The complex is probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37 (PubMed:22912744, PubMed:27903914). TP53RK has ATPase activity in the context of the EKC/KEOPS complex and likely plays a supporting role to the catalytic subunit OSGEP (By similarity). Atypical protein kinase that phosphorylates 'Ser-15' of p53/TP53 protein and may therefore participate in its activation (PubMed:11546806). [UniProtKB/Swiss-Prot Function]

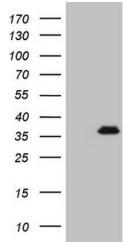
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### **Product images:**

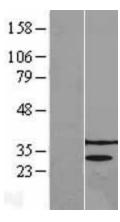


Circular map for RC209748



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TP53RK (Cat# RC209748, 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-TP53RK (Cat# [TA808232])(1:2000). Positive lysates [LY403262] (100ug) and [LC403262] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY403262]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209748 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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