

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

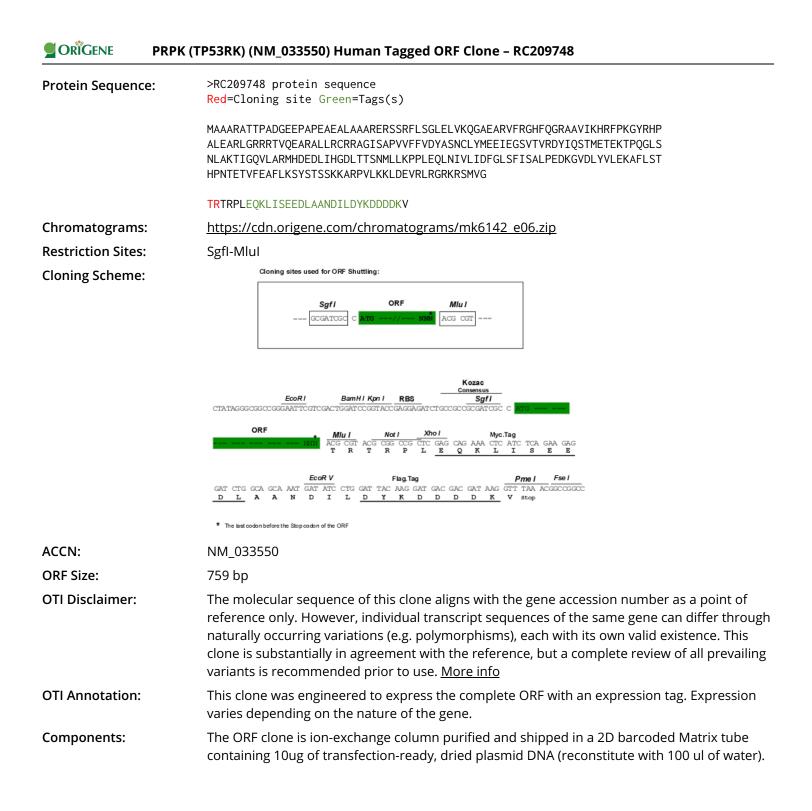




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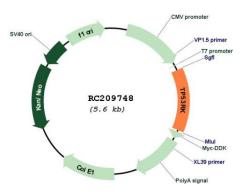
PRPK (TP53RK) (NM_033550) Human Tagged ORF Clone – RC209748

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
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]

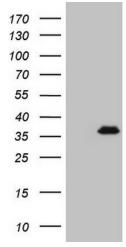
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Product images:

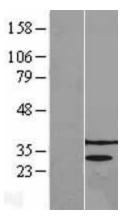


Circular map for RC209748



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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