

# Product datasheet for RG209748

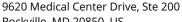
### PRPK (TP53RK) (NM 033550) Human Tagged ORF Clone

### **Product data:**

#### **Product Type: Expression Plasmids Product Name:** PRPK (TP53RK) (NM\_033550) Human Tagged ORF Clone Tag: TurboGFP Symbol: PRPK Synonyms: BUD32; C20orf64; dJ101A2; GAMOS4; Nori-2; Nori-2p; PRPK; TPRKB Mammalian Cell Neomycin Selection: Vector: pCMV6-AC-GFP (PS100010) E. coli Selection: Ampicillin (100 ug/mL) **ORF** Nucleotide >RG209748 representing NM\_033550 Red=Cloning site Blue=ORF Green=Tags(s) Sequence: TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC

CAGCCCGGGAGCGGAGCAGCCGCTTCTTGAGCGGCCTGGAGCTGGTGAAGCAGGGTGCCGAGGCGCGCGT GTTCCGTGGCCACTTCCAGGGCCGCGCGGCGGTGATCAAGCACCGCTTCCCCAAGGGCTACCGGCACCCG GCGCTGGAGGCGCGGCTTGGCAGACGGCGGACGGTGCAGGAGGCCCGGGCGCTCCTCCGCTGTCGCCGCG CTGGAATATCTGCCCCAGTTGTCTTTTTTGTGGACTATGCTTCCAACTGCTTATATATGGAAGAAATTGA AGGCTCAGTGACTGTTCGAGATTATATTCAGTCCACTATGGAGACTGAAAAAACTCCCCAGGGTCTCTCC CCACCTCCAACATGCTCCTGAAACCCCCCCTGGAACAGCTGAACATTGTGCTCATAGACTTTGGGCTGAG TTTCATTTCAGCACTTCCAGAGGATAAGGGAGTAGACCTCTATGTCCTGGAGAAGGCCTTCCTCAGTACC CATCCCAACACTGAAACTGTGTTTGAAGCCTTTCTGAAGAGCTACTCCACCTCCTACAAAAGGCCAGGC CAGTGCTAAAAAAATTAGATGAAGTGCGCCTGAGAGGAAGAAGAGGTCCATGGTTGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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	RPK (TP53RK) (NM_033550) Human Tagged ORF Clone – RG209748
Protein Sequence:	<pre>&gt;RG209748 representing NM_033550 Red=Cloning site Green=Tags(s)</pre>
	MAAARATTPADGEEPAPEAEALAAARERSSRFLSGLELVKQGAEARVFRGHFQGRAAVIKHRFPKGYRHP ALEARLGRRRTVQEARALLRCRRAGISAPVVFFVDYASNCLYMEEIEGSVTVRDYIQSTMETEKTPQGLS NLAKTIGQVLARMHDEDLIHGDLTTSNMLLKPPLEQLNIVLIDFGLSFISALPEDKGVDLYVLEKAFLST HPNTETVFEAFLKSYSTSSKKARPVLKKLDEVRLRGRKRSMVG
	TRTRPLE - GFP Tag - V
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling: Sgf1 ORF Miu I GCGATCGC C ATG MINI ACG CGT
	Kozac         EcoR I       BamH I Kpn I       RBS       Sgf I       Asc I         CTATAGGGCGGCGGGGAATTCGTCGATCCGGTACCGGAGGAGATCTGCCGCCGGGATCGCCGGGCGCCCAGATCT       Hind III       Nhe I       Rsr II       Miu I       Not I       Xho I       GFP Tag
	CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CCG GAG ATG GAG AGC GAC T R T R P L E <u>M E S D</u> Pme! Fse! GAA GAA AGA GTT TAA ACGGCCGGCCGCGGAGCT E E R V stop

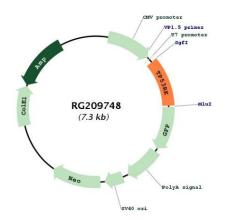
ACCN:	NM_033550
ORF Size:	759 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <u>More info</u>
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).

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## **PRPK (TP53RK) (NM\_033550) Human Tagged ORF Clone – RG209748**

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>
RefSeq:	<u>NM 033550.3, NP 291028.3</u>
RefSeq Size:	3384 bp
RefSeq ORF:	762 bp
Locus ID:	112858
UniProt ID:	<u>Q96544</u>
Cytogenetics:	20q13.12
Domains:	S_TKc, KOW
Protein Families:	Druggable Genome, Protein Kinase
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]

## **Product images:**



Circular map for RG209748

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