

Product datasheet for **SC120376**

PRPK (TP53RK) (NM_033550) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRPK (TP53RK) (NM_033550) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRPK
Synonyms:	BUD32; C20orf64; dj101A2; GAMOS4; Nori-2; Nori-2p; PRPK; TPRKB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_033550 edited ATGGCGCGGCCAGAGCTACTACGCCGGCCGATGGCGAGGAGCCCGCCCGGAGGCTGAG GCTCTGGCCGAGCCCGGGAGCGGAGCAGCCGCTTCTTGAGCGGCCTGGAGCTGGTGAAG CAGGGTGCCGAGGCGCGGTGTTCCGTGGCCGCTTCCAGGGCCGCGCGGCGGTGATCAAG CACCGCTTCCCCAAGGGCTACCGGCACCCGGCGCTGGAGGCGCGCTTGGCAGACGGCGG ACGGTGCAGGAGGCCCGGGCGCTCCTCCGCTGTCGCCGCGCTGGAATATCTGCCCAAGTT GTCTTTTTGTGGACTATGCTTCCAAGTCTTATATATGGAAGAAATTGAAGGCTCAGTG ACTGTTGAGATTATATTCAGTCCACTATGGAGACTGAAAAAAGTCCCGAGGCTCTCC AACTTAGCCAAGACAATTGGGCAGGTTTTGGCTCGAATGCACGATGAAGACCTCATTGAT GGTATCTCACCACCTCCAACATGCTCCTGAAACCCCGCTGGAACAGCTGAACATTGTG CTCATAGACTTTGGGCTGAGTTTCATTTGAGCACTTCCAGAGGATAAGGGAGTAGACCTC TATGTCCTGGAGAAGGCCTTCTCAGTACCCATCCCAACTGAAACTGTGTTTGAAGCC TTTCTGAAGAGCTACTCCACCTCCTCAAAAAGGCCAGGCCAGTCTAAAAAATTAGAT GAAGTGCCTGAGAGGAAGAAAGAGGTCCATGGTTGGGTAG



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_033550 unedited CTATNAGGNCAGGCCGCGCAATTCGGCACGAGGCTGATCGGTTGGAGCTGTTGCGCCGAG CAGTCATGGCGGCGGCCAGAGCTACTACGCCGGCCGATGGCGAGGAGCCCGCCCGGAGG CTGAGGCTCTGGCCGACGCCGGGAGCGGAGCAGCCGCTTCTTGAGCGGCTGGAGCTGG TGAAGCAGGGTGCCGAGGCGCGGTGTTCCGTGGCCGCTTCCAGGGCCGCGCGCGGTGA TCAAGCACCGCTTCCCCAAGGGCTACCGCACCCGGCGCTGGAGGCGCGGCTTGGCAGAC GGCGGACCGTGCAGGAGGCCGGCGCTCCTCCGCTGTCGCCGCGCTGGAATATCTGCC CAGTTGTCTTTTTGTGGACTATGCTTCCAAGTCTTATATATGGAAGAAATTGAAGGCT CAGTGACTGTTTCGAGATTATTCAGTCCACTATGGAGACTGAAAAAACTCCCCAGGGTC TCTCCAAGTTAGCCAAGACAATTGGGCAGGTTTTGGCTCGAATGCACGATGAAGACTCA TTCATGGTGATCTACCACCTCCAACATGCTCCTGAAACCCCCCTGGAACAGCTGAACA TTGTGCTCATAGACTTTGGGCTGAGTTTCATTTCCAGCACTTCCAGAGGATAAGGGAGTAG ACCTCTATGTCTGGAGAAGGCTTCTCAGTACCCATCCCAACTGAAACTGTGTTTG AAGCCTTTCTGAAGAGCTACTCCACCTCCTCAAAAAGCCAGGCCAGTGCTAAAAAATA GATGAAGTGCCCTGANAGGAAGAAAGAGTTCATGGTTGGGTAGAAGATGTGTATGACAC CCCACACAGTGAAGCTCTTTTTCAAAGTAAT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_033550 unedited NTTTTAGCTCTGNACCCGCGCCCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTAAT TTATAAAGGAAAAGTTTAATAACTCACAGTTCAGCATGGCTGGGGATGCCTCAGAAAAC TATAATCATGGCAGATGGGAAACAAACACACCCTTCTCCACGTGGCAGCAGGAAGTGCC GAACAAGAGGGAAAAGCCCTTATAAAACCATCAGATCTCGTGAGAACTCACTCGCTATC ACGAGAACAGCACGGAGGTAGCCGCCCGAGGATTAATACCTCCCACTGGGTCCCTCC CATGTCACGTGGGATTACGGGAACAATTCAAGATGAGATTTGGATGGGACACAGCCAA ACCCTATCAACTAGGGATTTGTTGACTTAATGCACACGAGCCAACCATACCCCAACAAAG CAGGTAAGCTATAGTACACGTGAGGAAACTGAGGAATGAGGCATCTCATTGATGTT GGGAAATTAATTGAAAAACCTGTCAGCTCCTGTGGCCCTGGAGTTCCTTGAAAATAAT GTTATACGCCAATACTTATTATAGTACTGTAAAGATGCACCATATCCCATATCTCATTTG TCAGTGGAAAGAACACAGATTTGGAGCCAGGGTAAAGTACCTCTTGCTACCTGTGACGTC TTGGACAAGTCCCACCCTTTGGGGCAAGTTCCTCCATCTATAAAATGGGGATAATGCC TAACTTAACGAGTATTTAGATCCCATATAAAAATCCCAGCCCAATGCCTGGCATGCCAG NTAGCCAGCCATTATACTATTTCCCTCTACTAGCCCAACTACCCAGCAAGGGATTT TCACTCATTCTGCCATCCGCCATGCTGGGCACTTGGGCTGCTGACTGGGGTGAAGAA CAAN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_033550
Insert Size:	3200 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	pass
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_033550.3 , NP_291028.3
RefSeq Size:	3384 bp
RefSeq ORF:	762 bp
Locus ID:	112858
UniProt ID:	Q96S44
Cytogenetics:	20q13.12
Domains:	S_TKc, KOW
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	<p>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]</p>