

Product datasheet for **KN209748LP**

PRPK (TP53RK) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	PRPK
Locus ID:	112858
Components:	<p>KN209748G1, PRPK gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN209748G2, PRPK gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</p> <p>KN209748LPD, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.</p> <p>GE100003, scramble sequence in pCas-Guide vector</p>
RefSeq:	NM_033550
UniProt ID:	Q96S44
Synonyms:	BUD32; C20orf64; dj101A2; Nori-2; Nori-2p; PRPK
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).</p> <p>[UniProtKB/Swiss-Prot Function]</p>



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Product images:

