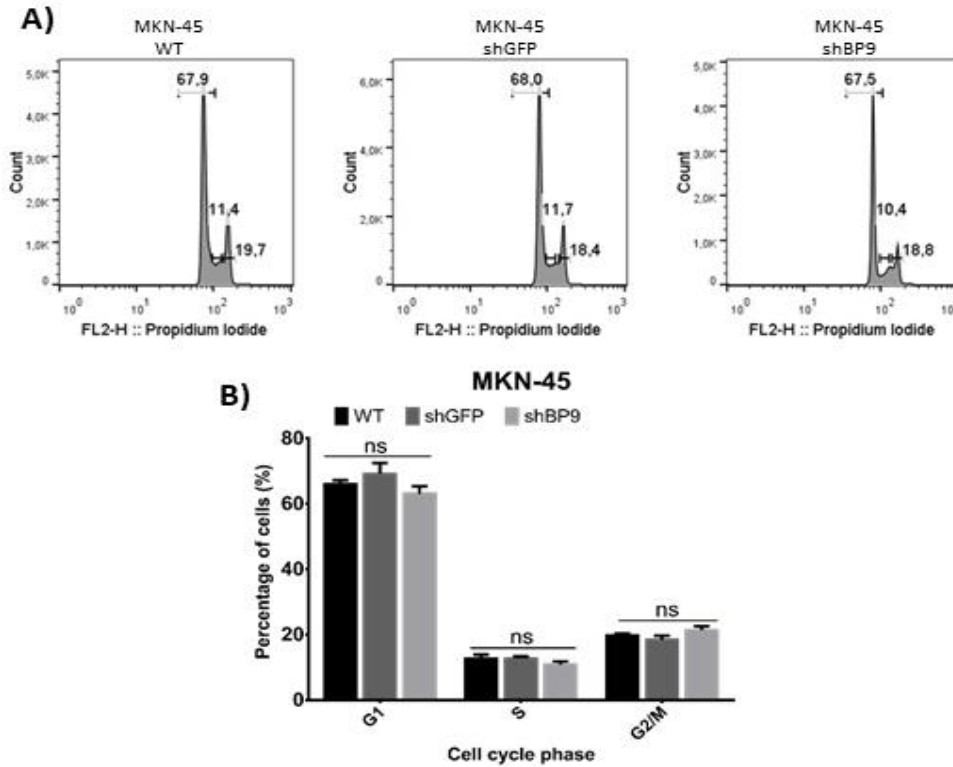


**Table S1.** Primer sets used for RT-qPCR analysis.

Gene	Common Name	GenBank Accession	Abbreviation	Primer Pair, Sense (5'-3')	Product Size (bp)
<i>KCNK9</i>	K2P9, TASK-3	NM_001282534.1	qHsKCNK9_F 1	5'-GTC TCA TTT TCC CCC ACC TTT CCA G-3'	148
			qHsKCNK9_R 1	5'-GGG TGG GGT GAG AAA TGT AAG GCA-3'	
<i>KCNK3</i>	K2P3, TASK-1	NM_002246.2	qHnP3_F	5'-GGT GCT CAT CGG CTT CTT CT-3'	199
			qHnP3_R	5'-GAA GCT GAA GGC CAC GTA CT-3'	
<i>CCNA1</i>	Cyclin A1	NM_003914.3	qHsCCNA1_F	5'-TGA AAT AAG GCA CAG ACC CAA AGC A-3'	89
			qHsCCNA1_R	5'-ACC AGC CAG TCC ACC AGA ATC GT- 3'	
<i>CCND1</i>	Cyclin D1	NM_053056.2	qHsCCND1_F	5'-GCT CCT GTG CTG CGA AGT GGA A-3'	126
			qHsCCND1_R	5'-TTT GAA GTA GGA CAC CGA GGG CG- 3'	
<i>CCNE1</i>	Cyclin E1	NM_001238.2	qHsCCNE1_F	5'-AAG GTT TCA GGG TAT CAG TGG TGC G-3'	191
			qHsCCNE1_R	5'-GGC TTT CTT TGC TCG GGC TTT G-3'	
<i>CDK4</i>	CDK4	NM_000075.3	qHsCDK4_F	5'-TCG TGA GGT GGC TTT ACT GAG GCG- 3'	194
			qHsCDK4_R	5'-TCC TTG ATC GTT TCG GCT GGC A-3'	
<i>CDKN1A</i>	p21, Cip1	NM_001291549.1	qHsCDKN1A_F	5'-TGT CCG TCA GAA CCC ATG C-3'	139
			qHsCDKN1A_R	5'-AAA GTC GAA GTT CCA TCG CTC-3'	
<i>CDKN1B</i>	p27, Kip1	NM_004064.4	qHsCDKN1B_F	5'-GGG TCT GTG TCT TTT GGC TCC GA-3'	94
			qHsCDKN1B_R	5'-CCG CCT CTC TCG CAC TCT CAA A-3'	
<i>RPL19</i>	L19	NM_000981	qHsRPL19_F	5'-CAT CCG CAA GCC TGT GAC G-3'	132
			qHsRPL19_R	5'-TGT GAC CTT CTC TGG CAT TCG-3'	

K2P, two-pore domain potassium channels; TASK-1 and TASK-3, TWIK-related acid-sensitive K<sup>+</sup> channels 1 and 3; DRAM1, CCNA1, CCND1 and CCNE1, Cyclins A1, D1, and E1; CDK4, Cyclin-Dependent Kinase 4; CDKN1A and CDKN1B, Cyclin-Dependent Kinase Inhibitors 1A and 1B; RPL19, ribosomal protein L19.



**Figure S1.** Quantitation of cell cycle phases by propidium iodide staining in MKN-45 cells. **(A)** Histograms. Representing distributions of fluorescence intensity among wild type (WT) MKN-45 cells or the same cells. Transduced with an shRNA against GFP (shGFP) or Task-3 (shBP9) after staining with propidium iodide. **(B)** Percentage of cells in G1, S and G2/M cell cycle phases based on percentages obtained in A. Error bars correspond to the mean  $\pm$  SME of three independent experiments. Cell cycle phases were evaluated by two-way ANOVA test with a  $p \leq 0.05$  ns = no significant difference.