Table S1

Median relative kDNA intensity values

PLK RNAi cells

Sample	Cell type	Relative median kDNA intensity				
- tet	1N1K	1.20				
	1N2Kc	2.17				
	1N2Ks	1.00				
t = 22 hrs + tet	1N1K	1.22				
	1N2Kc	2.06				
	2N1K	1.31				
	1N2Ks	1.00				
t = 30 hrs + tet	1N1K	2.05				
	1N2Kc	2.03				
	2N1K	2.05				
	>2N1K	2.98				
	1N2Ks	1.00				

PLKty overexpressing cells

Sample	Cell type	Relative median kDNA intensity			
- tet	1N1K	1.25			
	1N2Kc	1.78			
	1N2Ks	1.00			
t = 14.5 hrs + tet	1N1K	1.08			
	1N2Kc	2.06			
	2N1K	1.69			
	1N2Ks	1.00			
t = 18 hrs + tet	1N1K	1.75			
	1N2Kc	1.93			
	2N1K	2.43			
	1N2Ks	1.00			

Table S2

Changes in sequence of *PLK* from MiTat221 compared to the genome strain TREU 927 GUTat 10.1.

Base	TREU 927 GUTat.10.1	MiTat221	Mutation	
960	G	А	Silent	
1245	CAA CAA CAA CAA CAA	Deleted	Deletion of NNNNN	
1282	AAC AAC AAC AAC	GCC ATA AAC CCC	NNNN to AINP	
1344	А	G	Silent	
1438	G	А	V to A	
1485	Т	С	Silent	
1515	Т	А	Silent	
1582	С	G	P to A	
1830	Т	С	Silent	
2025	С	Т	Silent	
2142	А	G	silent	

Clone 7	t=6 hrs + tet total cells counted = 514, total abnormal cells = 87								
	(16.9%), of which 30 (5.8%) were unclassifiable								
			nı	umber of kir	etoplasts				
		0	1	2	3	4	5	6	
	0		3	1					
lei	1	9							
nucl	2	3	2		7	7		1	
number of nuclei	3			3	4	3			
ber	4	2				11	1		
m	5								
r L	6								
Clone 7	Clone 7 $t=8 \text{ hrs} + \text{tet}$ total cells counted = 488, total abnormal cells = 146 (29.9%), of which 47 (9.6%) were unclassifiable								
	number of kinetoplasts								
		0	1	2	3	4	5	6	
	0		6	2					
lei	1								
nuclei	2	3	29		10	7			

Figure S1 - Abnormal cells for bloodstream form *PLK* RNAi cell lines

nuc	2	3	29		10	7		
of	3		1	5	2	5	1	
ber	4			3	8	15		1
un	5						1	
u	6							

Clone 7		t=10 hrs + 10 hrs	tet	total cells counted = 409 , total abnormal cells = 208					
(50.9%), of which 54 (13.2%) were unclass								able	
	number of kinetoplasts								
		0	1	2	3	4	5	б	
	0		6	1					
ei	1	3			2				
	2	2	31		23	8			
of nuclei	3		1	11	16	2			
number of 1	4	2	3	5	16	15			
	5			1	3	2			
	6								
u	7				1				

