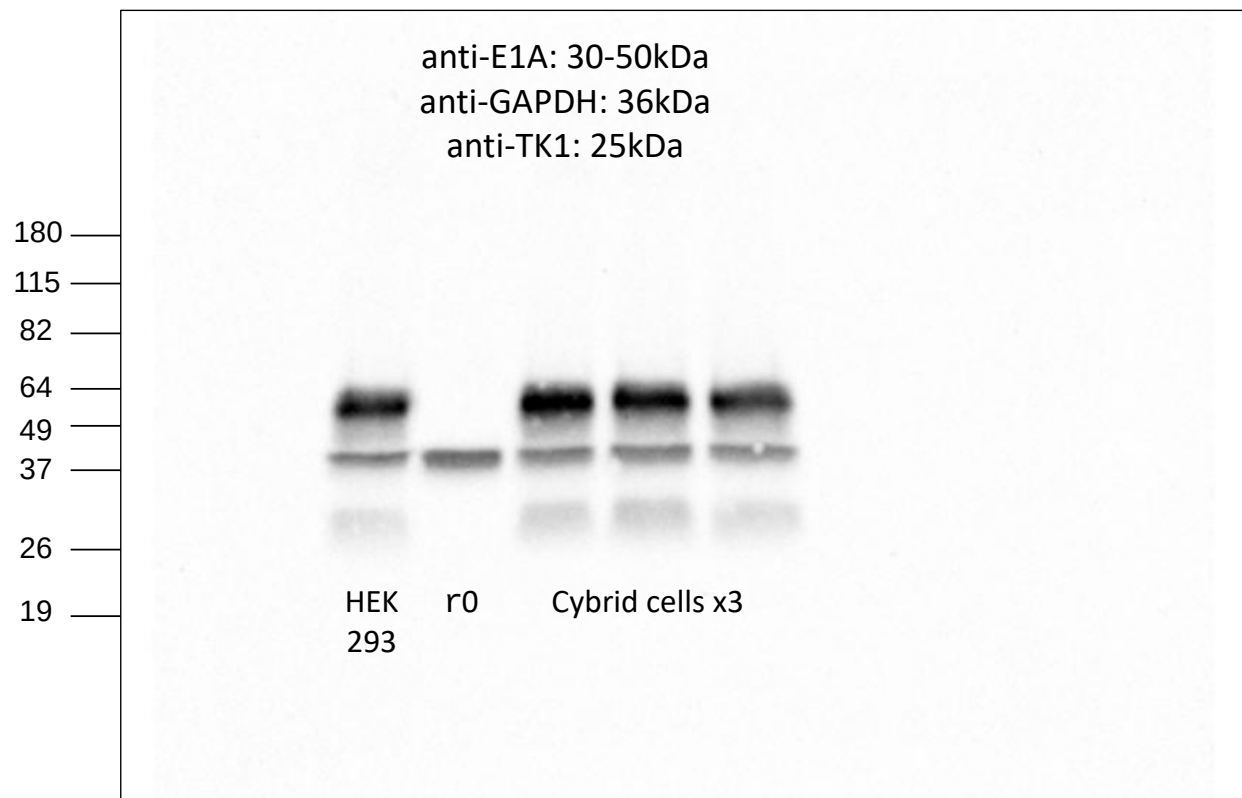
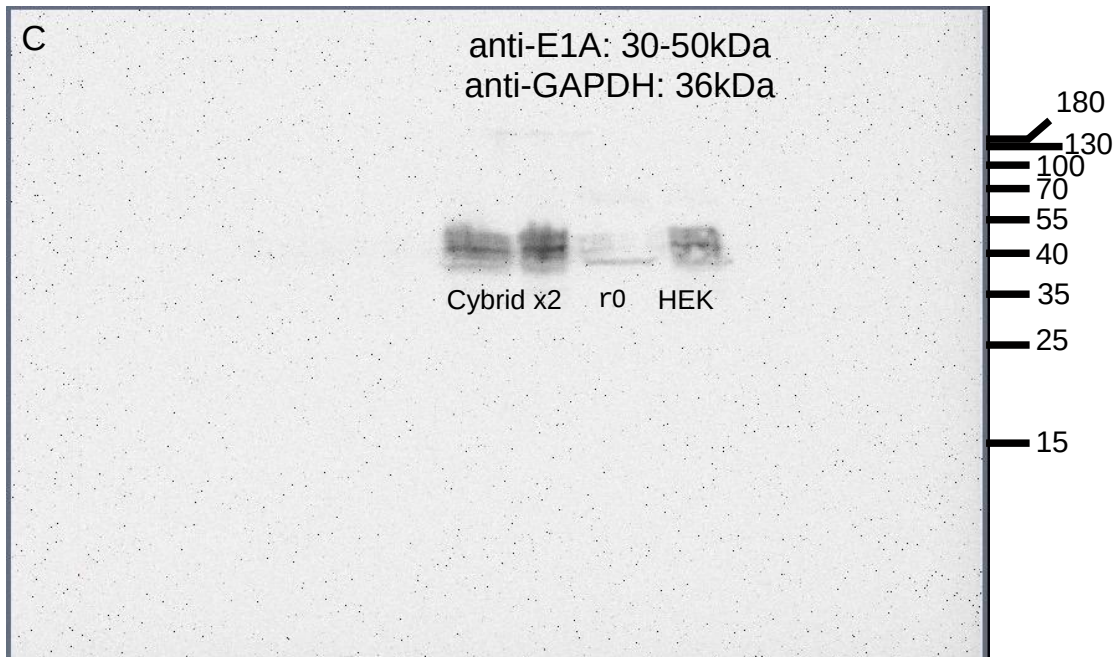
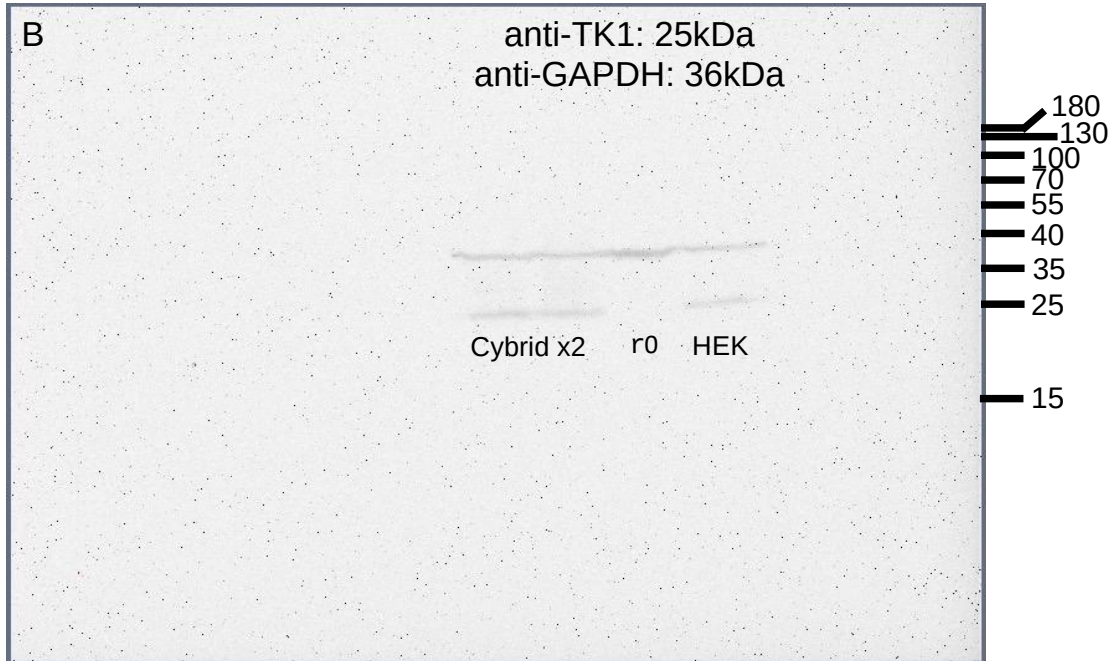
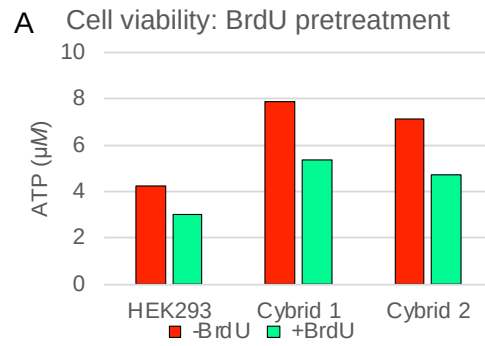


Supplementary information



Supplementary Fig 1. Uncropped western blots from Fig. 1B of thymidine kinase and E1A in HEK293, $\rho 0$, and post-mitochondrial transplant cells.



Supplementary Fig 2. Biological replicate of mitochondrial transplant of mitochondria isolated from HEK293 cell and transplanted to rho-0 ($\rho 0$) cells. **A)** Assessment of ATP via cell titer glo with 48hr pretreatment of BrdU. **B & C)** Western blot of thymidine kinase and E1A in HEK293, $\rho 0$, and post-mitochondrial transplant cells. Samples were prepared in laemmli buffer and loaded at 50 $\mu\text{g}/\text{lane}$ onto a 10% acrylamide gel and blotted for thymidine kinase (TK1; 1:1000) and HEK293 marker, E1A (1:1000). GAPDH (1:10000) was used as a loading control.

Cell type		Pluriselect		Filter A	Filter B
MDA-MB-231	nDNA	-6.04	ND	-4.42	
	mtDNA	0.34	0.52	1.19	
MCF7	nDNA	-2.16	-7.05	-6.10	
	mtDNA	2.71	1.05	3.77	

Supplementary Table 1. ΔC_t of HEK293 whole cells and mitochondrial isolates for nDNA depletion and mtDNA enrichment, respectively.