Supplementary Figures, Scheele et al.



Fig S1 . Structures of bumped kinase Inhibitors







Figure S3. Example of an L-CETSA assay of CDPK1 using BKI 1553 compared to vehicle alone (DMSO). Following incubation at the indicated temperature, samples were

centrifuged and the soluble material was loaded onto an SDS-PAGE gel and then blotted.

- A) Western blot using anti-CDPK1 followed by goat anti-rabbit IgG coupled to IRDye 800. Signal was revealed by scanning on the LICOR Odyssey. Below each lane, signal is quantified as compared to the highest signal in the series.
- B) Ponceau stained blot demonstrating that BKI 1553 does not cause non-specific protein aggregation.



Figure S4. Overexpression of CDPK1 with G128M gatekeeper mutation renders *T. gondii* resistant to BKI RM-1-132. RH, the parental d11 clone used in RM1-132 selection. Experiments; WT and G128M, overexpression of epitope-tagged wild-type and gatekeeper mutant CDPK1 respectively. Compound was added prior to invasion of host cells and a β -galactosidase reporter was used to quantify the parasites at 44 hours using the colorometric substrate chlorophenol red β -galactopyranose. The average of two independent experiments with triplicate data points is shown.



Fig. S5. Invasion/growth assays for *T. gondii* selected with RM-1-132. Uncloned lines were tested after 16 passages of selection. $EC_{50}s$ calculated in this experiment are (μ M): Parent 0.04, G128M 2.25, flask A 0.32, flask C 0.72. The assay was conducted as described in Fig. S4.