**Figure S1**  PCR amplification of ADE2 marker for targeted gene replacement with either pRSII402 or pRS402 as the template. pRS402 contains two pRS reverse primer binding sites, including one previously undocumented site that lies between the pRS forward primer binding site and the ADE2 marker. The extra undocumented site was removed from pRSII402. Sequences of the KIP1- and CIN8-specific oligonucleotide primers used are listed in Table S3. Control PCRs lacking a template plasmid were run to demonstrate specificity. 5.0 µl of each reaction was used for agarose gel electrophoresis; 0.5 µg of Invitrogen 1 kb DNA ladder was run on the same gel.