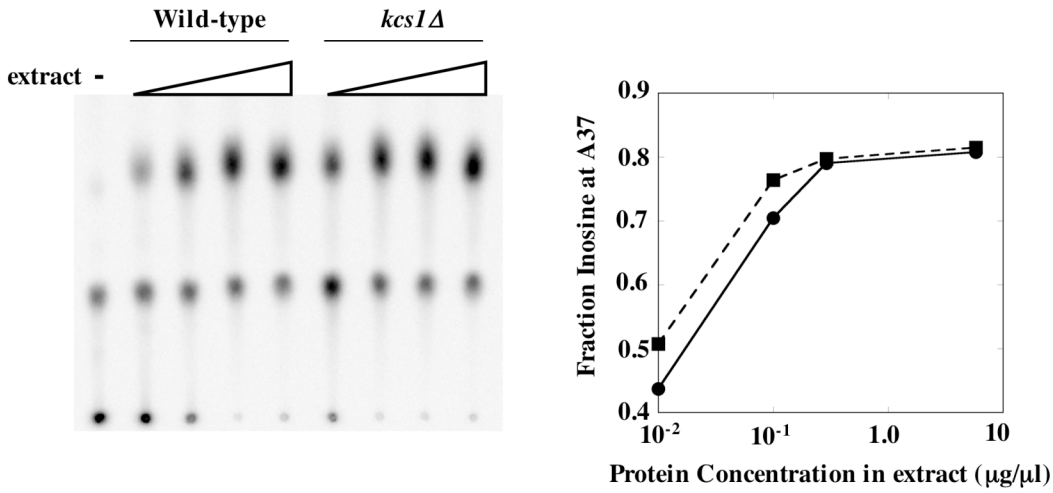

Figure S7. To rule out an ADAT1 requirement for IP_7, which is downstream of IP_6 in the inositol polyphosphate synthesis pathway, we assayed editing of A37 of $tRNA^{ala}$ by ADAT1 in extracts prepared from yeast unable to produce IP_7. The *KCS1* gene product phosphorylates IP_6 to form IP_7. ADAT1 from a *kcs1*Δ strain edits A37 with equal efficiency as ADAT1 from a wild-type strain, suggesting, along with the data from the *ipk1Δ* strain, that IP_6 is the required factor for editing activity. Left panel, TLC assay of tRNAala-A37 editing by ADAT1 in wild-type extracts or *kcs1*Δ extracts. Right panel, quantitation of inosine product as a function of wild-type or *kcs1*Δ extract concentration. Dashed line, ADAT1 activity in *kcs1*Δ extract; solid line, activity in wild-type extract.