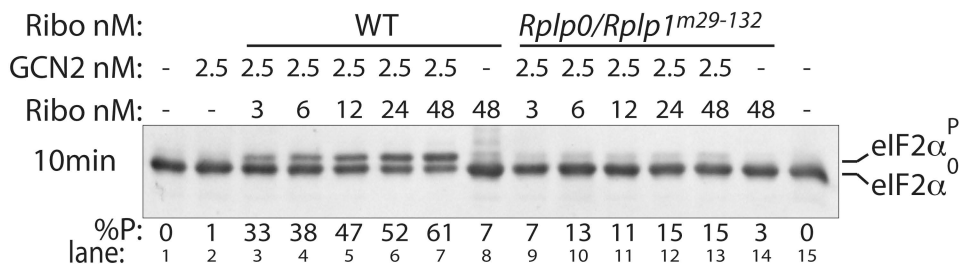
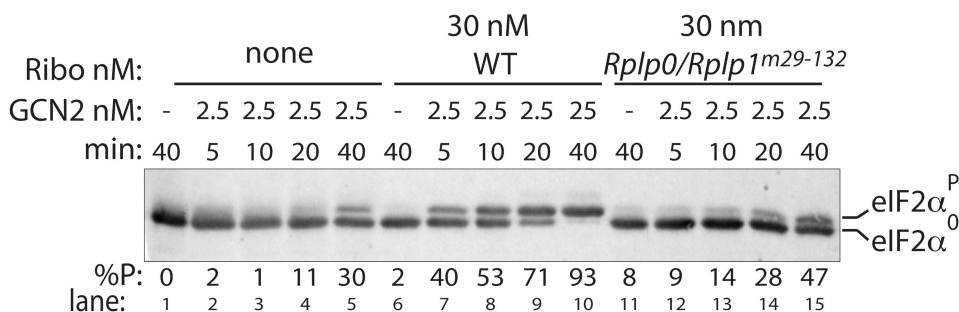


A



B



C

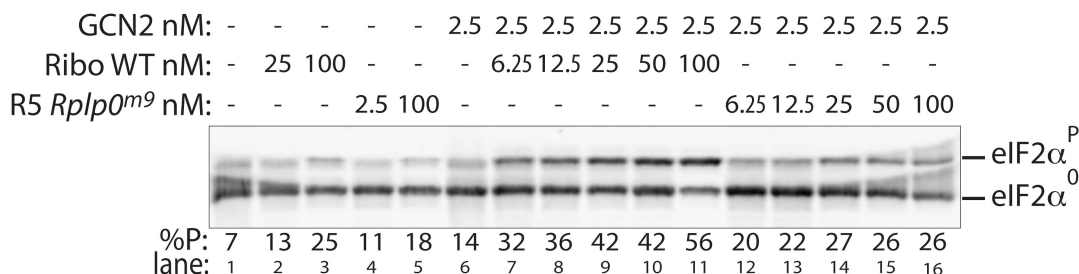


Figure 5 supplement1 P-stalk lesions (reproducibly) impair ribosome stimulation of eIF2α directed GCN2 kinase activity **A.** Immunoblot of eIF2α from in vitro phosphorylation reactions resolved by phos-tag SDS-PAGE, as in Figure 5A but utilizing different preparation of wildtype and *Rplp0/Rplp1^{m29-132}* compound mutant ribosomes. Reaction time was 10 minutes **B.** Time course, as in figure 5B but utilizing different preparation of wildtype and *Rplp0/Rplp1^{m29-132}* compound mutant ribosomes (at 30 nM) or no ribosomes. **C.** As in "A" above but using wildtype or *Rplp0^{m9}* mutant ribosomes. (Shown are representative of experiments reproduced at least twice)