FIGURE S3.—The MAPKKK, Ste11, is not required for hypoxic induction of PAUs or osmostress induction of GRE2, even in the absence of Hog1. O’Rourke and Herskowitz (Genes Dev 12: 2874-2886 (1998)) reported that there is signaling cross-talk in a hog1Δ mutant that can be eliminated by simultaneously deleting STE11. We found that this is not the case for PAUs or GRE2. A. Northern analysis was used to monitor PAU expression in cells grown in the presence (+) or absence (−) of oxygen for 5 hours. Wild-type (FY2609), hog1Δ (FY2873), ste11Δ (FY2875), and hog1Δ ste11Δ (FY2876) strains were used in both panels. B. Northern analysis was used to monitor GRE2 expression in cells grown in the presence of 1M sorbitol (+) or an equal volume of solvent (−) for 20 minutes.