



FIGURE S2.—Overexpression of *YBR284w* and *YJL070c* cannot bypass the lack of AMP-, adenosine-, or adenine-deaminase activities *in vivo*. (A) Overexpression of *YJL070c* or *YBR284w* does not allow utilization of S-adenosyl- methionine (AdoMet) or adenine as a purine source in the quadruple *amd1 aah1 ade8 his1*. To be utilized as a purine source, AdoMet requires adenosine deaminase (question mark in Figure 1) or adenosine kinase (ADO1 figure 1) + AMP deaminase activities. Clearly, overexpression of *YJL070c* or *YBR284w* does not provide activities required for AdoMet utilization, while *AMD1* does. (B) Overexpression of *YJL070c* or *YBR284w* does not allow utilization of adenine by an *aah1* mutant lacking adenine deaminase activity. (C) Growth of wild-type, *amd1*, *yjl070c* and *ybr284w* mutant strains in the presence of external purine. Serial dilutions of yeast cells in exponential growth-phase were spotted on SD casaW medium containing uracil and supplemented or not with adenine (+Ade) or hypoxanthine (+Hyp).