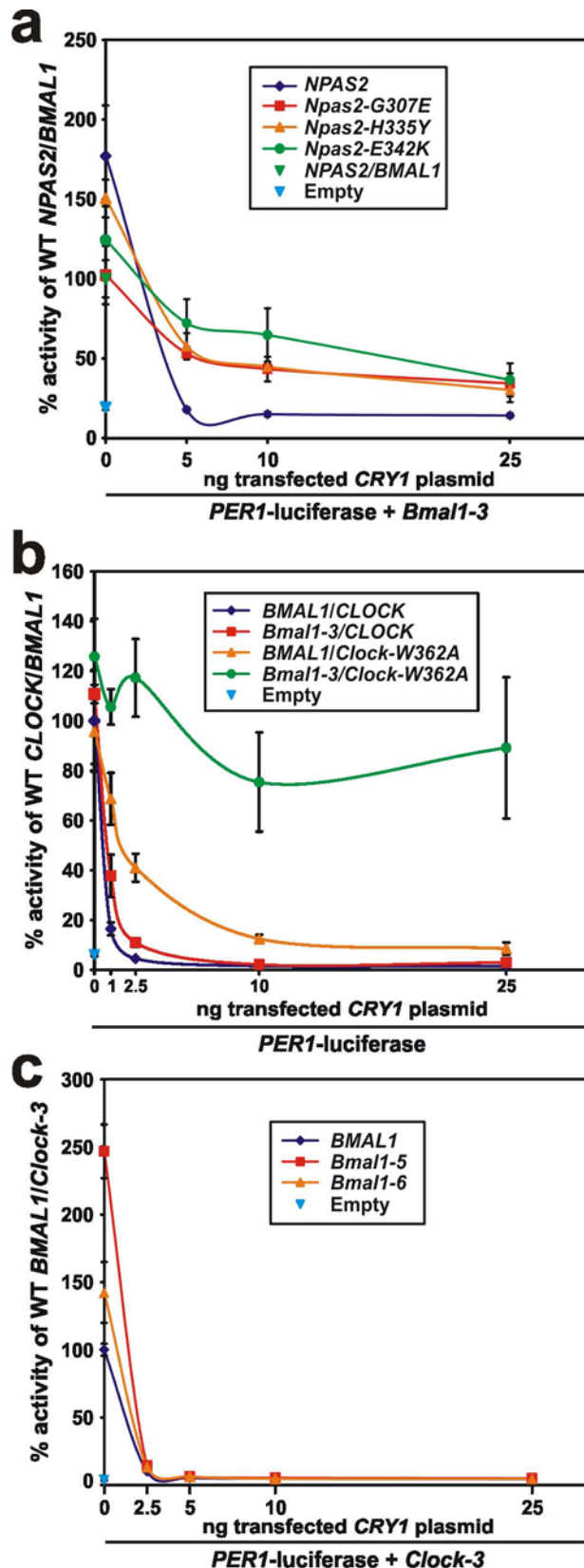




Supplementary Figure 2. Double mutant circadian heterodimers are synergistically insensitive to CRY-mediated repression. a-c, Results of cell-based transcriptional *PER1*-luciferase reporter assays with various circadian components in HEK293T cells. Plasmids expressing wild-type or mutant *NPAS2* (a), *Clock-W362A* (b) or hyperactive *Bmal1* (c) were transiently co-transfected with indicated *BMAL1* or *CLOCK* alleles, the *PER1*-luciferase reporter, and 0-25 ng of *CRY1* plasmid. Percent activity is expressed as the relative percent of normalized *PER1*-luciferase activity in transfection with wild-type *CLOCK/BMAL1* or *NPAS2/BMAL1* and no *CRY1* plasmid. Average percent activities and standard error of measurement (SEM) bars were determined from independent experimental triplicates.