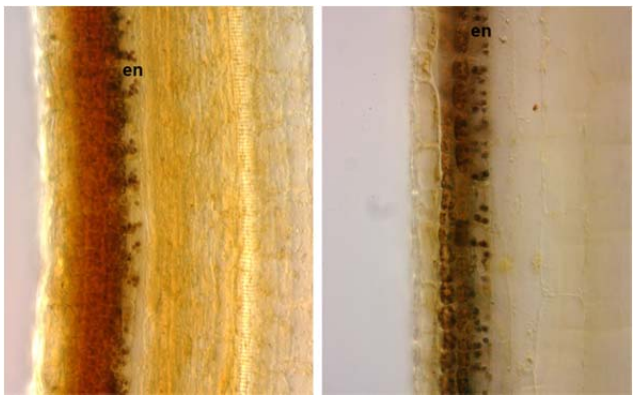

Fig. S1 Longitudinal sections of the primary stem of the wild type and *axr2-1* stained for amyloplasts. The wild type (*left*) and *axr2-1* (*right*) stem segments about 1 cm long were fixed with 3% paraformaldehyde in phosphate-buffered saline overnight, and embedded in 3% agarose. About 60-μm-thick longitudinal sections were prepared with a vibrating blade microtome (VT1200S, Leica), and stained with 5% I_2–KI solution for a few min. en, endodermis

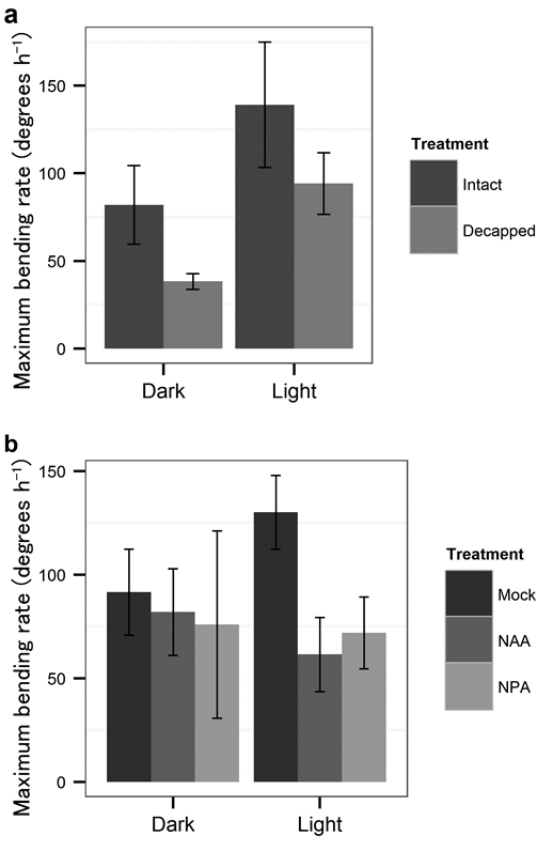

Fig. S2 Effects of decapitation or application of NAA or NPA on the maximum bending rate of gravitropism in wild-type inflorescence stems in the dark or under

light conditions. Plants were placed in a horizontal position ~5 h after decapitation (*upper panel*) or after application of lanolin paste containing 0.5 mM NAA or NPA to apical 1-cm-long portions of stem (*lower panel*), and the time course of the gravitropic response determined for 18 h thereafter in the dark or under light conditions. Each of the data represents mean and SD of three to 14 measurements

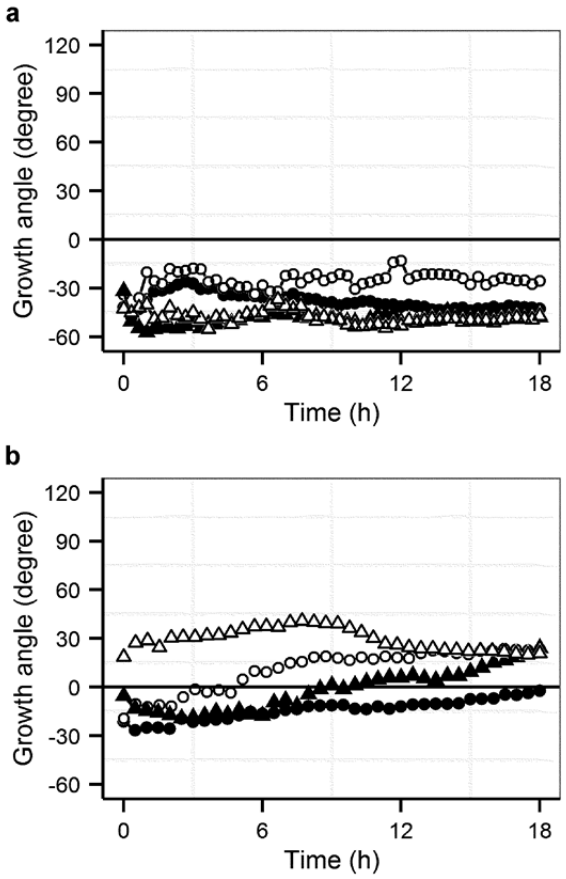

Fig. S3 Time-course of the gravitropic response of *eal1* and *sgr2* (SALK_098981) inflorescence stems under different light conditions. *eal1* (*upper panel*) or *sgr2* (*lower panel*) were placed in the dark (*closed symbols*) and white-light conditions (*open symbols*) after changing the position of plants by ~90°. Two independent measurements are shown for each genotype (*circles* and *triangles*)

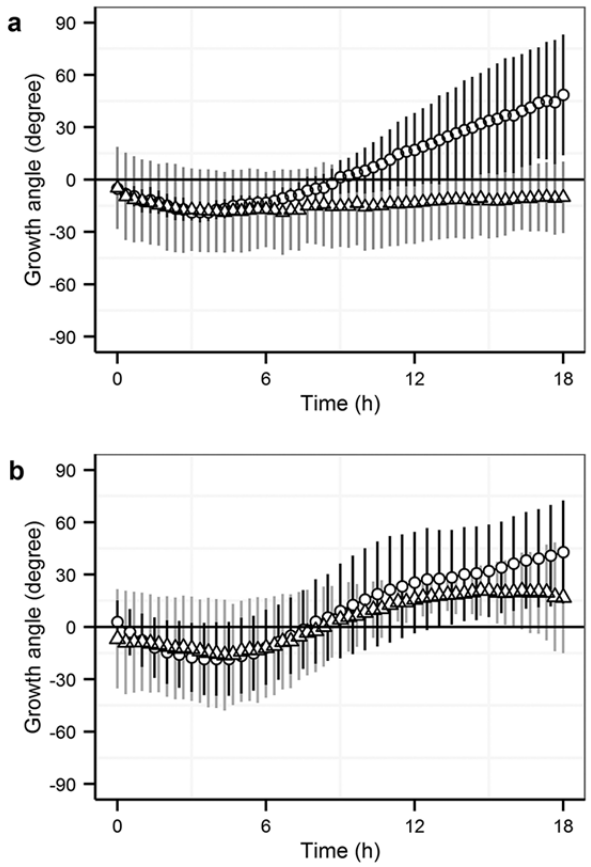

Fig. S4 Effects of application of NAA or decapitation on gravitropism of inflorescence stems of *axr2-1* in white-light conditions. **a** Gravitropic response was determined with 0.5 mM NAA (*triangles*) or mock treatment (*circles*). **b** Gravitropic response was determined after decapitation and removal of all the lateral organs (*triangles*). *Circles* show response of intact inflorescences. Each point represents mean and SD of three to 14 measurements. For more details, see the legend to Fig. 3

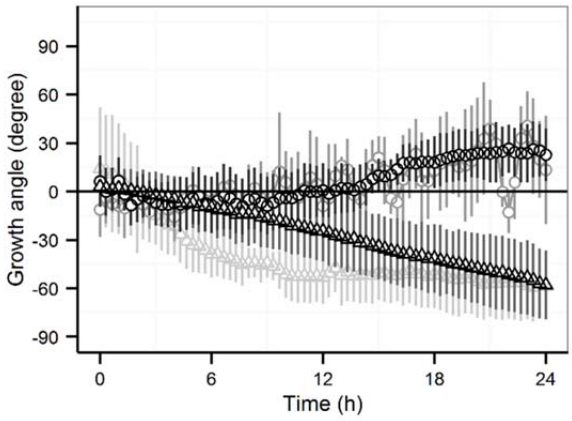

Fig. S5 Effects of application of NPA on phototropism of inflorescence stems of the wild type and *axr2-1*. Lanolin paste containing 0.5 mM NPA was applied to wild-type (circles) or *axr2-1* (triangles) stems. Data of mock treatment are shown with *grey symbols*, which are the same as those in Fig. 3a. Each point represents mean and SD of seven measurements. For more details, see a legend to Fig. 3

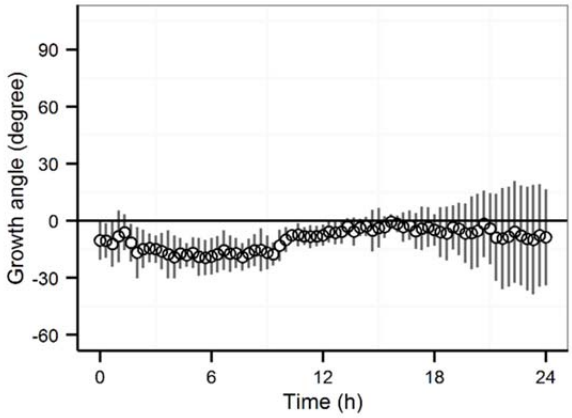

Fig. S6 Phototropic responses of inflorescence stems of *pin1-1* induced by unilateral irradiation with blue light (57 μmol m^{-2} s^{-1}). Each point represents mean and SD of four measurements