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The firefly luciferase gene can serve as an effective reporter for gene expression in vivo. In this *Arabidopsis* seedling, the luciferase gene was fused to the promoter region of the CAB2 gene, whose expression is regulated by light and the circadian clock. Expression is greatest (red) in the cotyledons and absent (blue) in the root. See page 1161 and a related Report (page 1163) and News story (page 1109). [Luminescence image: S. Kay and A. Millar]