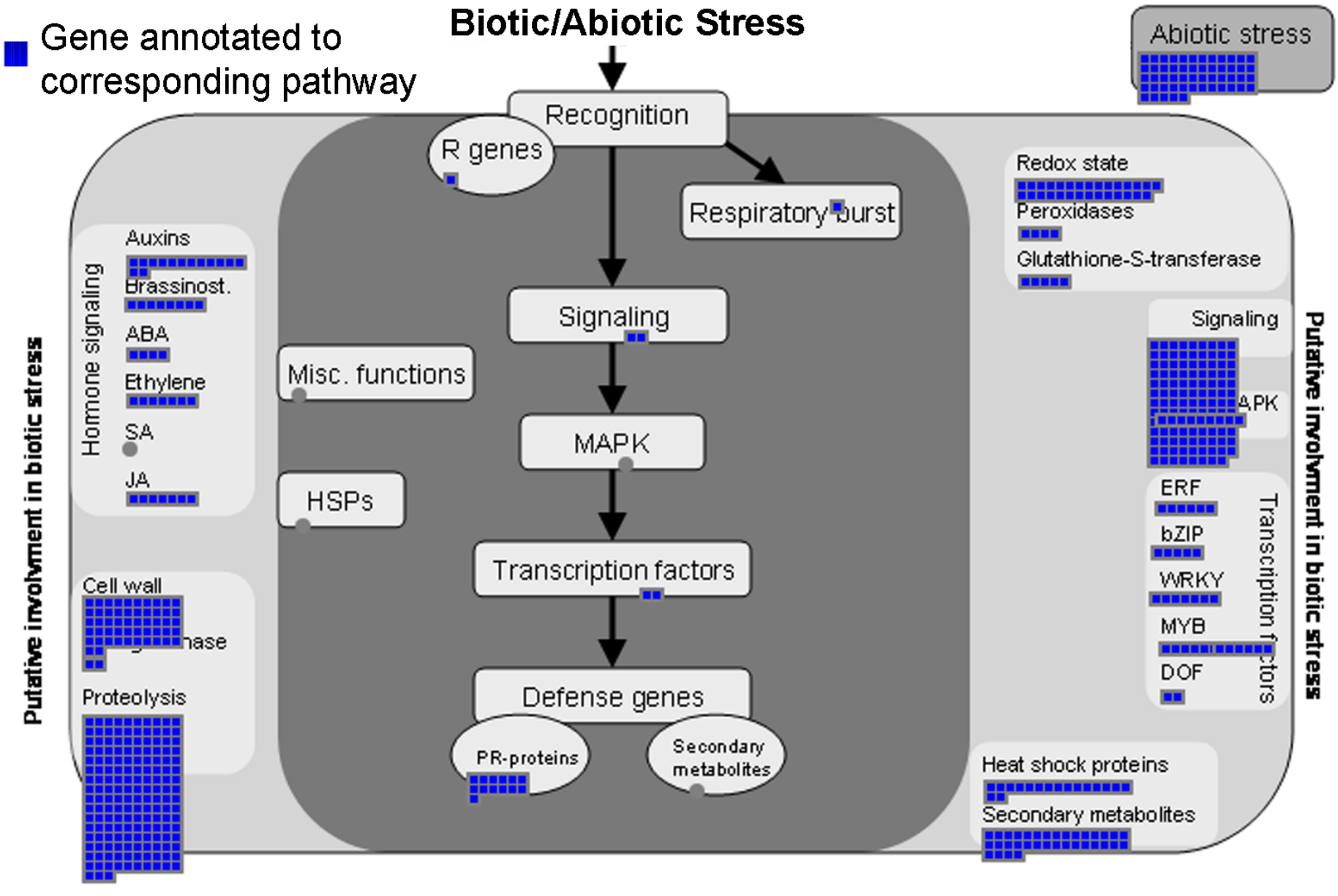sad1 (Control)