

## Descriptions of Additional Supplementary Files

### **Supplementary Data 1**

**Description:** Genes encoding papain-like Cys proteases from *N. benthamiana*.

### **Supplementary Data 2**

**Description:** Solanaceous genes encoding Rcr3- and Pip1-like proteases.

### **Supplementary Data 3**

**Description:** Used plasmids, with sequences.