**Additional files**

**Additional file 1.** Details of raw and filtered data generated for each sample of *P. ananatis* used in this study (S1 Table).

**Additional file 2.** Raw-read data generated, and filtered reads retained after stringent quality filtering using Trimmomatic (Fig. S1).

**Additional file 3.** Total number of core and accessory genes shared by each strain of *P. ananatis* used in this study (S2 Table).

**Additional file 4.** Dendrogram of 51 red-onion scale necrotic and 30 red-onion scale non-necrotic strains of *P. ananatis* based on the conserved core gene set. Strains highlighted in green are non-pathogenic and ones in red are pathogenic (Fig S2).

**Additional file 5.** Dendrogram of 51 red-onion scale necrotic and 30 red-onion scale non-necrotic strains of *P. ananatis* based on shell genes. Strains highlighted in green are non-pathogenic and ones in red are pathogenic (Fig S3).

**Additional file 6.** Dendrogram of 51 red-onion scale necrotic and 30 red-onion scale non-necrotic strains of *P. ananatis* based on cloud genes. Strains highlighted in green are non-pathogenic and ones in red are pathogenic (Fig S4).

**Additional file 7**. List of 42 genes associated with red-onion scale necrosis caused by pathogenic strains of *P. ananatis* based on *P*-values (S3 Table).

**Additional file 8.** Annotation and mapping of representative core genes (S4 Table).

**Additional file 9.** Annotation and mapping of representative soft-core genes (S5 Table).

**Additional file 10.** Annotation and mapping of representative shell genes (S6 Table).

**Additional file 11.** Annotation and mapping of representative cloud genes (S7 Table).

**Additional file 12**. Life Identification Number (LIN) Ids assigned to *P. ananatis* strains submitted to LIN base (S8 Table).