Table S1. Primers used for the LAMP assay to confirm the identity of *E. amylovora*

Primer	Sequence (5′ → 3′)	Reference sequence	Position on reference
F3	ACAACATGATGGGCGAAGT	NC_013971	3240804-3240786
FIP	AGGCAGGTATCAGCCCCAAAAACACACCACATTGCTCCGA		
BIP	CTCGATAGCCGCCCAACTCAGGGTATCAGTGCCCATGAAGC		
B3	TCCTTGACGAGGTATCCGC	NC_013971	3240600-3240618

Table S2. Fire blight resistance of ten *M. sieversii* genotypes

Sample	6 DPI		12 DPI	
	Average PLL	SD	Average PLL	SD
1.1	18,02	7,59	77,53	27,56
1.2	0,68	0,33	2,05	0,90
4.3	6,77	3,03	19,08	9,19
4.4	6,68	2,77	6,42	3,23
5.1	60,18	28,40	79,79	33,62
5.2	16,46	7,43	20,86	8,14
5.3	1,03	0,61	2,58	0,93
6.1	0	0,00	0	0,00
6.2	1,55	0,66	4,82	1,87
6.3	9,18	3,60	29,22	12,02

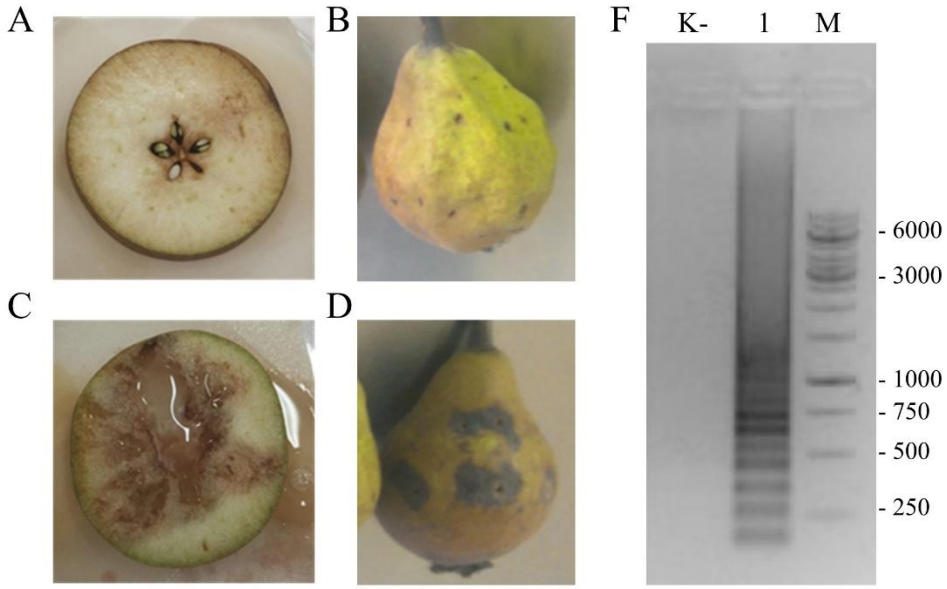

Fig. S1. Pathogenicity test and molecular confirmation of the *E. amylovora* isolate EaAla_1. **A.** Pear slice control treated with sterile buffer; **B.** Whole pear control treated with sterile buffer; **C.** Pear slice showing necrosis and bacterial ooze 5 days after inoculation with EaAla_1; **D.** Whole pear showing necrotic lesions 5 days after inoculation with EaAla_1; **F**. Agarose gel electrophoresis of the LAMP assay product for *E. amylovora* confirmation**. K-.** negative control; **1.** Amplification from EaAla_1 DNA; **M**. GeneRuler 1kB DNA Ladder (Thermo Scientific, Waltham, MA, USA, Cat num SM0314), sizes in base pairs.

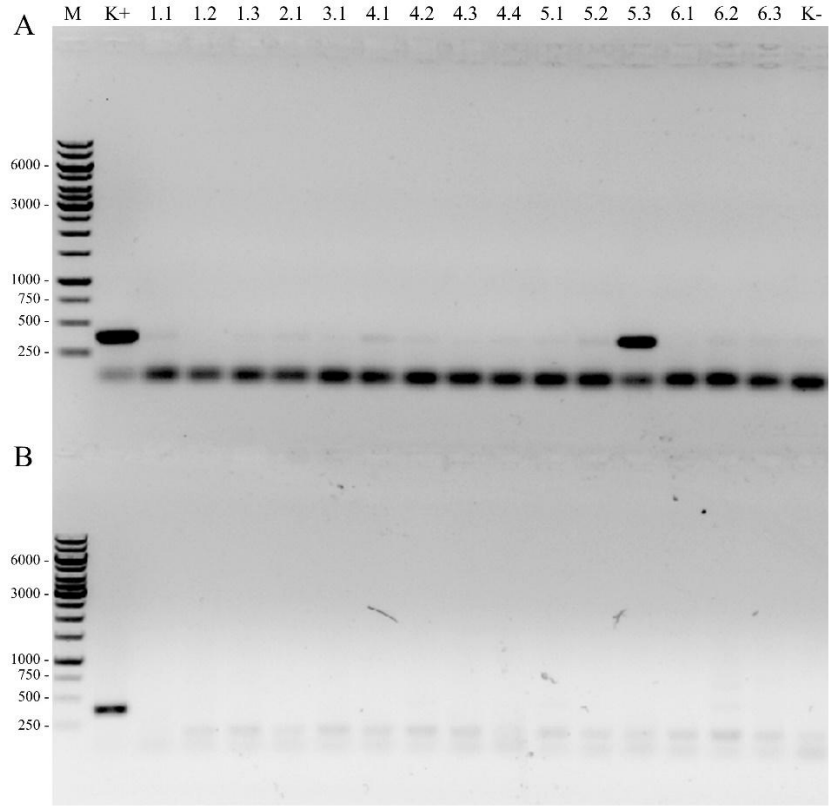

Fig. S2. Agarose gel electrophoresis of PCR-amplified products by SCAR primers: **A.** AE10-375, **B.** GE-8019; **K+**. For positive control, used DNA extracted from the Summer Red variety; **K-**. for negative – Discovery; **M**. GeneRuler 1KB DNA Ladder (Thermo Scientific, Waltham, MA, USA, Cat num SM0314), sizes in base pairs.