Table S1. Numbers of raw reads, cleaned reads, assembled contigs, PeSV-related contigs and number of variants identified for each of the two analyzed pomegranate samples.

Sample	Paired Reads	Trimmed and Cleaned Reads	Contigs ≥200	PeSV-Related Contigs	Recovered Variants
PS1	13,611,066	2,562,437	6,078	50	5
PS4	20,918,456	1,586,985	3,690	125	1

Table S2. Characteristics of the isolates and variants used in this study.

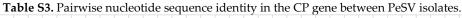
Isolate/Variant	Place of Origin	Symptoms	Amplified Region	Accession
				Number
PS1-1	Hatay-Turkey	Oak-leaf patterns	complete genome	MT680930
PS1-2	Hatay-Turkey	Oak-leaf patterns	complete genome	MT680931
PS1-3	Hatay-Turkey	Oak-leaf patterns	complete genome	MT680932
PS1-4	Hatay-Turkey	Oak-leaf patterns	complete genome	MT680933
PS1-5	Hatay-Turkey	Oak-leaf patterns	complete genome	MT680934
PS4-1	Hatay-Turkey	Chlorotic rings	complete genome	MT680935
SRX2583192	China	Unknown	near complete genome	SRX2583192
SRX2735578	China	Unknown	6K1-3 end	SRX2735578
SRX2503675	India	Unknown	P3-3 end	SRX2503675
SRX2735578 3	China	Unknown	NIb-3 end	SRX2735578
				3
SRX2735578 2	China	Unknown	6K1-3 end	SRX2735578
				2
SRX2503675 2	India	Unknown	6K2-3 end	SRX2503675
				2
SRX275580	China	Unknown	СР	SRX275580
SRX2503675 3	India	Unknown	СР	SRX2503675
				3
225	Adana-Turkey	Oak-leaf patterns	СР	MT271616
228	Adana-Turkey	Mosaics, oak-leaf	СР	MT271617
		patterns		

229	Adana-Turkey	Vein clearing	СР	MT271618
231	Adana-Turkey	Light mosaics	СР	MT271619
232	Adana-Turkey	Mosaics, oak-leaf	СР	MT271620
		patterns		
239	Adana-Turkey	Oak-leaf patterns	СР	MT271621
241	Adana-Turkey	Yellowing and	СР	MT271622
		mottling		
242	Adana-Turkey	Vein clearing	СР	MT271623
243	Adana-Turkey	Oak-leaf patterns	СР	MT271624
245	Adana-Turkey	Oak-leaf patterns	СР	MT271625
247	Adana-Turkey	Yellowing and	СР	MT271626
		oak-leaf patterns		
226	Adana-Turkey	Yellowing and	СР	MT271627
		mottlings		
187	Hatay-Turkey	Oak-leaf patterns	СР	MT271628
		and heavy		
		chlorotic spots		
195	Hatay-Turkey	Yellowing and	СР	MT271629
		leaf deformation		
201	Hatay-Turkey	Yellowing and	СР	MT271630
		mosaics		
221	Adana-Turkey	Yellowing and	СР	MT271631
		mottlings		
222	Adana-Turkey	Vein clearing	СР	MT271632
223	Adana-Turkey	Yellowing and	СР	MT271633
		vein clearing		
253	Hatay-Turkey	Yellowing and	СР	MT271634
		mottlings		
254	Hatay-Turkey	Yellowing and	СР	MT271635
		leaf deformation		
268	Hatay-Turkey	Oak-leaf patterns	СР	MT271636

		3/ 11 1 1	CD) (TIOF1 (OF
274	Hatay-Turkey	Yellowing and	CP	MT271637
		mosaics		
278	Hatay-Turkey	Oak-leaf patterns	СР	MT271638
360	Aydın-Turkey	Yellowing	СР	MT271639
3	Hatay-Turkey	Yellowing and	NIa-Pro	MT271640
		mosaics		
5	Hatay-Turkey	Yellowing and	NIa-Pro	MT271641
		mosaics		
48	Hatay-Turkey	Yellowing and	NIa-Pro	MT271642
		mosaics		
64	Hatay-Turkey	Oak-leaf patterns	NIa-Pro	MT271643
187	Hatay-Turkey	Oak-leaf patterns	NIa-Pro	MT271644
		and heavy		
		chlorotic spots		
201	Hatay-Turkey	Yellowing and	NIa-Pro	MT271645
		mosaics		
216	Adana-Turkey	Yellowing and	NIa-Pro	MT271646
		mottlings		
221	Adana-Turkey	Yellowing and	NIa-Pro	MT271647
		mottlings		
222	Adana-Turkey	Vein clearing	NIa-Pro	MT271648
223	Adana-Turkey	Yellowing and	NIa-Pro	MT271649
		vein clearing		
225	Adana-Turkey	Oak-leaf patterns	NIa-Pro	MT271650
226	Adana-Turkey	Yellowing and	NIa-Pro	MT271651
		mottlings		
228	Adana-Turkey	Mosaics, oak-leaf	NIa-Pro	MT271652
		patterns		
229	Adana-Turkey	Vein clearing	NIa-Pro	MT271653
231	Adana-Turkey	Light mosaics	NIa-Pro	MT271654

Patterns 239	232	Adana-Turkey	Mosaics, oak-leaf	NIa-Pro	MT271655
239	-				
241 Adana-Turkey Yellowing and mottlings 242 Adana-Turkey Vein clearing NIa-Pro MT271658 243 Adana-Turkey Oak-leaf patterns NIa-Pro MT271659 244 Adana-Turkey Yellowing and NIa-Pro MT271660 245 Adana-Turkey Oak-leaf patterns NIa-Pro MT271661 247 Adana-Turkey Yellowing and NIa-Pro MT271662 252 Hatay-Turkey No symptoms NIa-Pro MT271663 (Ornamental Pomegranate) 257 Hatay-Turkey Yellowing and NIa-Pro MT271664 mosaics 258 Hatay-Turkey Yellowing and NIa-Pro MT271665 mosaics 260 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 261 Hatay-Turkey Yellowing and NIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns	239	Adana-Turkey		NIa-Pro	MT271656
mottlings 242 Adana-Turkey Vein clearing NIa-Pro MT271658 243 Adana-Turkey Oak-leaf patterns NIa-Pro MT271659 244 Adana-Turkey Yellowing and NIa-Pro MT271660 mottlings 245 Adana-Turkey Oak-leaf patterns NIa-Pro MT271661 247 Adana-Turkey Yellowing and NIa-Pro MT271662 248 Adana-Turkey Yellowing and NIa-Pro MT271662 249 Adana-Turkey Yellowing and NIa-Pro MT271663 (Ornamental Pomegranate) 250 Hatay-Turkey Yellowing and NIa-Pro MT271664 mosaics 251 Hatay-Turkey Yellowing and NIa-Pro MT271665 mosaics 262 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 263 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 264 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns		-	-		
242 Adana-Turkey Vein clearing NIa-Pro MT271658 243 Adana-Turkey Oak-leaf patterns NIa-Pro MT271659 244 Adana-Turkey Yellowing and mottlings NIa-Pro MT271660 245 Adana-Turkey Oak-leaf patterns NIa-Pro MT271661 247 Adana-Turkey Yellowing and mok-leaf patterns NIa-Pro MT271662 252 Hatay-Turkey No symptoms NIa-Pro MT271663 (Ornamental Pomegranate) Pomegranate) NIa-Pro MT271664 257 Hatay-Turkey Yellowing and mosaics NIa-Pro MT271665 258 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 260 Hatay-Turkey Yellowing and NIa-Pro MT271666 261 Hatay-Turkey Yellowing and NIa-Pro MT271667 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 267 Hatay-Turkey Yellowing and NIa-Pro <td>241</td> <td>Adama-Turkey</td> <td><u> </u></td> <td>1114-110</td> <td>W11271037</td>	241	Adama-Turkey	<u> </u>	1114-110	W11271037
243 Adana-Turkey Oak-leaf patterns NIa-Pro MT271659 244 Adana-Turkey Yellowing and NIa-Pro MT271660 mottlings 245 Adana-Turkey Oak-leaf patterns NIa-Pro MT271661 247 Adana-Turkey Yellowing and NIa-Pro MT271662 oak-leaf patterns 252 Hatay-Turkey No symptoms NIa-Pro MT271663 (Ornamental Pomegranate) 257 Hatay-Turkey Yellowing and NIa-Pro MT271664 mosaics 258 Hatay-Turkey Yellowing and NIa-Pro MT271665 mosaics 260 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 261 Hatay-Turkey Yellowing and NIa-Pro MT271666 oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns	242	A 1 T 1		NII D	N/T071/F0
244 Adana-Turkey Yellowing and mottlings 245 Adana-Turkey Oak-leaf patterns NIa-Pro MT271661 247 Adana-Turkey Yellowing and NIa-Pro MT271662 252 Hatay-Turkey No symptoms NIa-Pro MT271663 (Ornamental Pomegranate) 257 Hatay-Turkey Yellowing and NIa-Pro MT271664 mosaics 258 Hatay-Turkey Yellowing and NIa-Pro MT271665 mosaics 260 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 261 Hatay-Turkey Yellowing and NIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271669 Oak-leaf patterns		<u> </u>			
mottlings 245 Adana-Turkey Oak-leaf patterns NIa-Pro MT271661 247 Adana-Turkey Yellowing and NIa-Pro MT271662 0ak-leaf patterns 252 Hatay-Turkey No symptoms NIa-Pro MT271663 (Ornamental Pomegranate) 257 Hatay-Turkey Yellowing and NIa-Pro MT271664 mosaics 258 Hatay-Turkey Yellowing and NIa-Pro MT271665 mosaics 260 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 261 Hatay-Turkey Yellowing and NIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271669					
245 Adana-Turkey Oak-leaf patterns NIa-Pro MT271661 247 Adana-Turkey Yellowing and NIa-Pro MT271662 0ak-leaf patterns 252 Hatay-Turkey No symptoms NIa-Pro MT271663 (Ornamental Pomegranate) 257 Hatay-Turkey Yellowing and NIa-Pro MT271664 mosaics 258 Hatay-Turkey Yellowing and NIa-Pro MT271665 mosaics 260 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 261 Hatay-Turkey Yellowing and NIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns	244	Adana-Turkey	Yellowing and	NIa-Pro	MT271660
247 Adana-Turkey Yellowing and oak-leaf patterns 252 Hatay-Turkey No symptoms NIa-Pro MT271663 (Ornamental Pomegranate) 257 Hatay-Turkey Yellowing and MIa-Pro MT271664 mosaics 258 Hatay-Turkey Yellowing and NIa-Pro MT271665 mosaics 260 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 261 Hatay-Turkey Yellowing and NIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271669			mottlings		
oak-leaf patterns 252 Hatay-Turkey No symptoms NIa-Pro MT271663 (Ornamental Pomegranate) 257 Hatay-Turkey Yellowing and NIa-Pro MT271664 mosaics 258 Hatay-Turkey Yellowing and NIa-Pro MT271665 mosaics 260 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 261 Hatay-Turkey Yellowing and NIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271669	245	Adana-Turkey	Oak-leaf patterns	NIa-Pro	MT271661
252 Hatay-Turkey No symptoms NIa-Pro MT271663 (Ornamental Pomegranate) 257 Hatay-Turkey Yellowing and NIa-Pro MT271664 mosaics 258 Hatay-Turkey Yellowing and NIa-Pro MT271665 mosaics 260 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 261 Hatay-Turkey Yellowing and NIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271669	247	Adana-Turkey	Yellowing and	NIa-Pro	MT271662
(Ornamental Pomegranate) 257 Hatay-Turkey Yellowing and NIa-Pro MT271664 mosaics 258 Hatay-Turkey Yellowing and NIa-Pro MT271665 mosaics 260 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 261 Hatay-Turkey Yellowing and NIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271669			oak-leaf patterns		
Pomegranate) 257 Hatay-Turkey Yellowing and MIa-Pro MT271664 mosaics 258 Hatay-Turkey Yellowing and MIa-Pro MT271665 mosaics 260 Hatay-Turkey Yellowing and MIa-Pro MT271666 mosaics 261 Hatay-Turkey Yellowing and MIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and MIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and MIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and MIa-Pro MT271669	252	Hatay-Turkey	No symptoms	NIa-Pro	MT271663
257 Hatay-Turkey Yellowing and MIa-Pro MT271664 mosaics 258 Hatay-Turkey Yellowing and MIa-Pro MT271665 mosaics 260 Hatay-Turkey Yellowing and MIa-Pro MT271666 mosaics 261 Hatay-Turkey Yellowing and MIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and MIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and MIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and MIa-Pro MT271669		(Ornamental			
mosaics 258 Hatay-Turkey Yellowing and NIa-Pro MT271665 mosaics 260 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 261 Hatay-Turkey Yellowing and NIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271670		Pomegranate)			
258 Hatay-Turkey Yellowing and NIa-Pro MT271665 mosaics 260 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 261 Hatay-Turkey Yellowing and NIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271670	257	Hatay-Turkey	Yellowing and	NIa-Pro	MT271664
mosaics 260 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 261 Hatay-Turkey Yellowing and NIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271670			mosaics		
260 Hatay-Turkey Yellowing and NIa-Pro MT271666 mosaics 261 Hatay-Turkey Yellowing and NIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271670	258	Hatay-Turkey	Yellowing and	NIa-Pro	MT271665
mosaics 261 Hatay-Turkey Yellowing and NIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271670			mosaics		
261 Hatay-Turkey Yellowing and NIa-Pro MT271667 oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271670	260	Hatay-Turkey	Yellowing and	NIa-Pro	MT271666
oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271670			mosaics		
oak-leaf patterns 265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271670	261	Hatay-Turkey	Yellowing and	NIa-Pro	MT271667
265 Hatay-Turkey Yellowing and NIa-Pro MT271668 oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271670					
oak-leaf patterns 266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271670	265	Hatav-Turkey		NIa-Pro	MT271668
266 Hatay-Turkey Yellowing and NIa-Pro MT271669 oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271670		y y	_		
oak-leaf patterns 267 Hatay-Turkey Yellowing and NIa-Pro MT271670	266	Hatay-Turkey		NIa-Pro	MT271669
267 Hatay-Turkey Yellowing and NIa-Pro MT271670	200	Tiddy Tarkey	9	1414 110	111127 1007
	267	Hatar Tunkar		NIIo Duo	MT271670
	267	natay-Turkey	_	Mia-Fio	W11271670
		** -	oak-leaf patterns		
270 Hatay-Turkey Yellowing and NIa-Pro MT271671	270	Hatay-Turkey	<u> </u>	NIa-Pro	MT271671
oak-leaf patterns			oak-leaf patterns		_

273	Hatay-Turkey	Yellowing and	NIa-Pro	MT271672
		mosaics		
360	Aydın-Turkey	Yellowing	NIa-Pro	MT271673
361	Aydın-Turkey	Yellowing	NIa-Pro	MT271674
254	Hatay-Turkey	Yellowing and	NIa-Pro	MT271675
		leaf deformation		
274	Hatay-Turkey	Yellowing and	NIa-Pro	MT271676
		mosaics		
276	Hatay-Turkey	Yellowing and	NIa-Pro	MT271677
		mosaics		



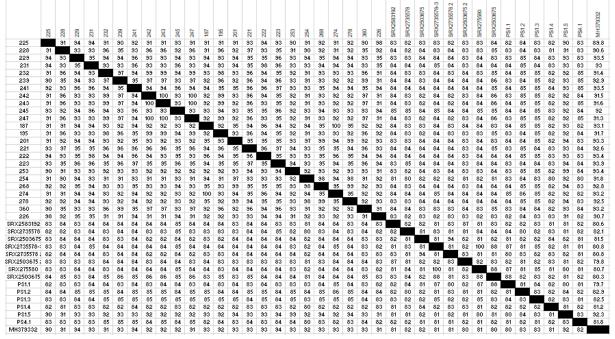


Table S4. Pairwise nucleotide sequence identity in the NIa-Pro gene beween PeSV isolates.

