Table S1. Allele-specific primer pairs used for *S*-genotyping.

S-allele	Accession no.	Sequence (5′-3′)	*Consensus* PCR product [bp][a]	PCR product [bp]	[µM]	Reference
PcS₁₀₃	B39S3F1	AGAACATTGATAATTAGGACCAT	1.582	430	0.3	Sanzol and Robbins 2008
	B40S3R1	GGTTTCTTATAGTCGATACCTG			0.3	Sanzol and Robbins 2008
PcS₁₀₅	A55S5F1	ACGGTATGTGGCCTTCAAACAGCTC	651	352	0.3	Sanzol and Robbins 2008
	A57S5R2	GATTGTCGTTCTGTATTGCGGGTCG			0.3	Sanzol and Robbins 2008
PcS₁₀₆	PycomC1F	ATTTTCAATTTACGCAGCAATATCAGC	670	462	0.3	Sanzol and Robbins 2008
	PycomS6R	GCGTGTCGTTCATTATTCGC			0.3	Sanzol and Robbins 2008
PcS₁₀₇	A60S7F1	CGACCCGGAATATTGCAAGATAAGG	653	443	0.4	Sanzol and Robbins 2008
	A63S7R3	GGCATTTTCAATGTCCAGCACT			0.4	Sanzol and Robbins 2008
PcS₁₀₈	PycomS8F	CTTGTAACGATCGTCCTGAACAA	680	613	0.3	Sanzol and Robbins 2008
	PycomS8R	CCTCAACTAATTCAGTCGTCGTC			0.3	Sanzol and Robbins 2008
PcS₁₀₉	B47S9F2	TTTGAATGGACCTCACCCTGC	646	437	0.4	Sanzol and Robbins 2008
	B48S9R3	TATCTACCAGTGGCCTTTTCAA			0.4	Sanzol and Robbins 2008
PcS₁₁₁	A68S11F1	CAGAAAAATGTAAGACTACAGCTC	678	431	0.6	Sanzol and Robbins 2008
	PycomS11R	TTGTCCCGTTCGGTTGAATAGC			0.6	Sanzol and Robbins 2008
PcS₁₁₄	B36S14F2	TGGTTTGTGGCCTTCAGAGTC	642	490	0.3	Sanzol and Robbins 2008
	A71S14R4	GTCGCTTATCATCGGTACTTGG			0.3	Sanzol and Robbins 2008
PcS₁₁₅	A83SmF1	TGGCCTTCAAACTGGTACTTATCC	658	380	0.6	Sanzol and Robbins 2008
	B37SmR2	ATGTACATTTTGATAACAGTTCCG			0.6	Sanzol and Robbins 2008
PcS₁₁₆	PcS16 forward	GCCAGCTGTCTGCAACTCC	670	430	0.4	Nikzad et al., 2014
	PcS16 reverse	GTCGTTCATTATTGCGGGATAC			0.4	Nikzad et al., 2014
PcS₁₁₇	PpS9 forward	CTCAATCGAAGGGCAAATGT	1.600	400	0.4	Nikzad et al., 2014
	PpS9 reverse	TTATTGGTGGGGCAGAAAAA			0.4	Nikzad et al., 2014
PcS₁₂₁	B52S21F2	TCACCCAGAAAATTGCACGGAC	661	483	0.3	Sanzol and Robbins 2008
	B53S21R2	TTTGGTTTCTTATTGATGCTC			0.3	Sanzol and Robbins 2008
PcS₁₂₂	A84S22F1	CACGCTAGGACCTGACCCGAGT	683	418	0.6	Sanzol and Robbins 2008
	A89S22R1	CTAGAGACGTTTTGTTTCTTGCAG			0.6	Sanzol and Robbins 2008
PcS₁₂₃	A88S23F1	CAGCACAGGAAATGACCCAAGAT	653	523	0.3	Sanzol and Robbins 2008
	B38S23R2	AATTCAGTCCTCTGAGTATAGT			0.3	Sanzol and Robbins 2008
PcS₁₂₄	A85S24F1	TCTGGTGGCCTTCAAACTGGATACT	654	489	0.6	Sanzol and Robbins 2008
	A86S24F2	GTTGGTACTAATGAGTATGGCAGC			0.6	Sanzol and Robbins 2008
PcS₁₂₅	PycomC1F	ATTTTCAATTTACGCAGCAATATCAGC	-	1095	0.4	Sanzol and Robbins 2008
	S125r1 (B61)	TGCACCGAAATGTTAGTACCA			0.4	De Franceschi (personal communication)

PcS126	PcS26 forward	TCCGGTTCAATCTGCGCTTT	680	100	0.5	This study
	PcS26 reverse	TCCCGCAATAACGAACGAGG			0.5	This study
PcS127	PcS27 forward	CTGGCGTAAACAGTGGGAGA	850	277	0.5	This study
	PcS27 reverse	GCAAAGACCGACCTCAACCA			0.5	This study

[a] Size of the amplicons obtained by using *consensus* primers PycomC1F and PycomC5R for each *S*-RNase alleles

Table S2. *S*-genotypes assigned to the accessions in analysis combining *consensus* and allele-specific PCR primers.

Accessions	Consensus PCR (pb)	*S*-alleles by *consensus* PCR						*S*-alleles by allele-specific PCR																		*S*-genotype
		PcS_{101}	PcS_{102}	PcS_{104}	PcS_{110}	PcS_{113}	PcS_{120}	PcS_{103}	PcS_{105}	PcS_{106}	PcS_{107}	PcS_{108}	PcS_{109}	PcS_{111}	PcS_{114}	PcS_{115}	PcS_{116}	PcS_{117}	PcS_{121}	PcS_{122}	PcS_{123}	PcS_{124}	PcS_{125}	PcS_{126}	PcS_{127}	
Adamo	650/680	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	PcS_{105}/PcS_{126}
Alessio	650	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$PcS_{107}/-$
Angelico	750/1650	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{104}/PcS_{103}
Azzone di Cassone	850/1650	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	PcS_{103}/PcS_{127}
Bella di Giugno	750/800	-	-	+	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{104}/PcS_{120}[a]
Bergamotto	680/1650	-	-	-	-	-	-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	PcS_{103}/PcS_{111}
Bianchetto	650/1650	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	+	-	-	-	-	-	-	-	PcS_{109}/PcS_{117}
Bianchettone	650/750	-	-	+	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{104}/PcS_{105}
Bruttu Beddu	1650	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$PcS_{103}/-$
Buona Luisa	1300/1650	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{101}/PcS_{103}
Butirra	1300/1650	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{101}/PcS_{103}
Campana	700/1650	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	PcS_{103}/PcS_{122}
Catanese	680/750	-	-	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{104}/PcS_{108}
Cavaliere	650/750	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	PcS_{104}/PcS_{115}
Chiuzzu	850/1650	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	PcS_{103}/PcS_{127}
Coscia	750/1650	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{104}/PcS_{103}[b]
Duchessa d'Angio'	650/1650	-	-	-	-	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{103}/PcS_{105}
Faccia Donna	640	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	$PcS_{124}/-$
Faccibedda	680/850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	PcS_{126}/PcS_{127}
Franconello	680/850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	PcS_{126}/PcS_{127}
Garibaldi	650/750	-	-	+	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	PcS_{104}/PcS_{115}
Garofalo	640	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	$PcS_{124}/-$
Gentile	670/1300	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{101}/PcS_{106}[b]
Ialufaru	640	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	$PcS_{124}/-$
Ianculiddu	850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	+	PcS_{125}/PcS_{127}
Iazzuleddu	850/1650	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	PcS_{103}/PcS_{127}
Mezza Campana	680/750	-	-	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{104}/PcS_{108}
Moscatello 1	650/750	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	PcS_{104}/PcS_{123}
Moscatello 2	680/1650	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	PcS_{103}/PcS_{116}
Moscatello Maiolino	680/850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	+	PcS_{126}/PcS_{127}
Moscatello Nero	670/1300	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{101}/PcS_{106}
Paradiso/Confittaru	680/1650	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	PcS_{103}/PcS_{126}

Cultivar	Size	Allele
Pasqualino	680/1650	PcS_{103}/PcS_{111}
Pauluzzo	680/850	PcS_{126}/PcS_{127}
Pergolesi	1300/1650	PcS_{101}/PcS_{103}
Piccola Dolce	750/1650	PcS_{104}/PcS_{117}
Piridda	650	PcS_{109}/PcS_{117}
Piru Mulinciana	680/1300	PcS_{101}/PcS_{108}
Piru Pizzu	650/850	PcS_{105}/PcS_{127}
Pisciazzanu	1300	$PcS_{101}/-$
Pistacchino	670/1650	PcS_{117}/PcS_{121}
Putiru d'Estate	1300/1650	PcS_{101}/PcS_{103}
Putiru d'Inverno	1650	$PcS_{103}/-$
Razzuolo Rosata	670	PcS_{103}/PcS_{106}
Regina	700/1300	PcS_{101}/PcS_{122}
Rosa	750	PcS_{104}/PcS_{103}
San Cono	1650/1700	PcS_{102}/PcS_{103}
San Giovanni	650/1700	PcS_{102}/PcS_{109}
San Giovannino	650	$PcS_{105}/-$
San Pietro	680/800	PcS_{120}/PcS_{126}
Santa Caterina	750	PcS_{104}/PcS_{125}
Sciaduna	680/1650	PcS_{111}/PcS_{117}
Spadona	650/750	PcS_{104}/PcS_{105}
Spineddu	680/1650	PcS_{111}/PcS_{117}
Tabaccaro	850/1300	PcS_{101}/PcS_{127}
Ucciarduni	680/1650	PcS_{103}/PcS_{108}
Urzi'	1650	PcS_{103}/PcS_{125}
Villalba	650/1300	PcS_{101}/PcS_{109}
Virgolese	1300/1650	PcS_{101}/PcS_{103}
Zio Pietro	680/1300	PcS_{101}/PcS_{108}
Zuccareddu	650/1300	PcS_{101}/PcS_{107}
P. amygdaliformis 1	700/800	PcS_{120}/PcS_{122}
P. amygdaliformis 2	680	$PcS_{126}/-$
P. amygdaliformis 3	680/1300	PcS_{101}/PcS_{116}
P. amygdaliformis 4	680	PcS_{116}/PcS_{125}
P. amygdaliformis 5	700/800	PcS_{120}/PcS_{122}
P. amygdaliformis 7	680	PcS_{108}/PcS_{125}
P. amygdaliformis 10	670	$PcS_{106}/-$

P. pyraster 2	680	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	$PcS_{111}/-$
P. pyraster 3	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	$PcS_{122}/-$
P. pyraster 4	850	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	$PcS_{127}/-$
P. pyraster 5	650	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	PcS_{105}/PcS_{123}
P. pyraster 7	680/1300	+	-	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{101}/PcS_{111}
P. pyraster 8	680/850	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+	PcS_{108}/PcS_{127}
P. pyraster 9	650	-	-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{105}/PcS_{109}
P. pyraster 10	750/2200	-	-	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{104}/PcS_{110}
P. pyraster 11	680	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	$PcS_{108}/-$
Abbé Fétel	650/750	-	-	+	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{104}/PcS_{105}[a,d]
Beurre Hardy	640/680	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{108}/PcS_{114}[a,e]
Cascade	750/1300	+	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{101}/PcS_{104}[a,d]
Dr. Jules Guyot	650/1300	+	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{101}/PcS_{105}[b]
Kaiser	650	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	+	-	-	-	-	PcS_{107}/PcS_{125}[a,c]
Max Red Bartlett	1300/1700	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{101}/PcS_{102}[d]
Old Home	1300/2000	+	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{101}/PcS_{113}[e]
Harrow Sweet	650/1700	-	+	-	-	-	-	-	-	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{102}/PcS_{105}[d]
Williams	1300/1700	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	PcS_{101}/PcS_{102}[d,f]

For every accession, the table shows the *consensus* PCR products (bp), the positive (+) and negative (-) amplification for each *S*-RNase allele tested and the *S*-genotype.

Reference genotype: (a) Zuccherelli et al., 2002; (b) Zisovich et al., 2004; (c) Tassinari 2005; (d) Takasaki et al., 2006; (e) Moriya et al., 2007; (f) Mota et al., 2007; (g) Sanzol 2009.