

**Table S1.** Cultivar-specific alleles for SSR loci of the analyzed gooseberries.

Cultivar	Abbr.	Locus																	
		CHS-1	CHS-2	DFR1-1	DFR1-2	DFR1-3	DFR1-4	DFR2-1	WD-1	WD-2	WD-3	ANS	UFGT	HLH-1	HLH-2	HLH-3	HLH-4	RJL-2	RJL-6
Avenarius	Ave	343/343	268/268	399/399	390/364	323/318	326/326	261/257	189/189	378/378	204/204	237/237	343/343	208/198	243/243	319/319	246/246	254/243	295/293
Angliyskiy Zeleniy	AnZ	343/343	268/268	399/399	393/364	323/323	326/326	261/257	189/189	378/378	204/204	237/237	343/343	208/198	243/243	319/318	246/246	254/234	295/287
Chorny Negus	ChN	343/343	268/268	399/399	390/364	318/318	326/326	261/261	189/189	378/378	204/204	237/237	346/343	208/198	247/243	319/318	246/246	243/243	301/291
Chernomor	Che	343/343	268/268	399/399	370/364	323/320	326/326	258/257	189/189	378/378	204/204	237/237	343/343	208/198	247/243	319/314	246/246	243/228	295/285
Consul (Senator)	Con	343/343	268/268	399/399	370/364	323/320	326/326	258/257	189/189	378/378	204/204	237/237	343/343	208/198	247/243	319/314	246/246	254/228	295/285
Chelyabinskiy Zeleniy	ChZ	343/343	268/268	399/399	370/364	323/320	326/326	258/257	189/189	378/378	204/204	237/237	343/343	208/198	243/243	319/318	246/246	254/254	295/285
Grushenka	Gru	343/343	268/268	399/399	375/364	326/323	326/326	259/257	189/189	378/378	204/204	237/237	343/343	208/198	247/243	319/314	246/246	254/228	295/283
Invicta	Inv	343/343	268/268	399/399	377/370	324/320	326/326	259/258	189/189	378/378	204/204	237/237	343/343	208/198	247/243	319/318	246/246	254/236	291/285
Kolobok	Kol	343/343	268/268	399/399	377/364	323/323	326/326	259/257	189/189	378/378	204/204	237/237	343/343	208/198	243/243	319/318	246/246	254/222	295/291
Kursu Dzintars	KuD	343/343	268/268	399/399	375/370	326/320	326/326	261/258	189/189	378/378	204/204	237/237	343/343	208/198	243/243	319/318	246/246	254/243	301/285
Laskoviy	Las	343/343	268/268	399/399	375/364	326/320	326/326	259/257	189/189	378/378	204/204	237/237	343/343	208/198	247/243	319/314	246/246	254/228	295/283
Lepaan Red	LeR	343/343	268/268	399/399	377/370	324/320	326/326	259/258	189/189	378/378	204/204	237/237	343/343	208/198	243/243	319/319	246/246	254/236	291/285
Malahit	Mal	343/343	268/268	399/399	364/364	323/323	326/326	261/257	189/189	378/378	204/204	237/237	346/343	208/198	243/243	319/319	246/246	254/240	295/291
Moskovskiy Krasniy	MoK	343/343	268/268	399/399	370/364	323/323	326/326	261/257	189/189	378/378	204/204	237/237	343/343	208/198	243/243	319/314	246/246	254/243	295/293
Nezhniy	Nez	343/343	268/268	399/399	364/364	323/318	326/326	261/257	189/189	378/378	204/204	241/237	355/343	208/198	247/243	319/314	246/246	243/231	295/291
Rozoviy-2	Ro2	343/343	268/268	399/399	370/364	323/320	326/326	258/257	189/189	378/378	204/204	237/237	343/343	208/198	243/243	319/319	246/246	254/243	295/285
Russkiy	Rus	343/343	268/268	399/399	370/364	323/320	326/326	258/257	189/189	378/378	204/204	237/237	343/343	208/198	243/243	319/319	246/246	254/243	295/285
Russkiy Zholti	RuZ	343/343	268/268	399/399	370/364	323/320	326/326	258/257	189/189	378/378	204/204	237/237	343/343	208/198	243/243	319/319	246/246	254/243	295/285
Severniy Kapitan	SeK	343/343	268/268	399/399	370/364	323/320	326/326	258/257	189/189	378/378	204/204	237/237	343/343	208/198	248/243	319/318	246/246	254/228	295/285
Seyanets Lefora	SeL	343/343	268/268	399/399	388/370	326/320	326/326	261/258	189/189	378/378	204/204	237/237	343/343	208/198	243/243	319/318	246/246	254/254	301/285
Triumfalniy	Tri	343/343	268/268	399/399	397/364	323/318	326/326	261/257	189/189	378/378	204/204	237/237	343/343	208/198	243/243	319/319	246/246	254/243	301/295
Vladil	Vla	343/343	268/268	399/399	370/364	323/320	326/326	258/257	189/189	378/378	204/204	237/237	343/343	208/198	248/243	319/318	246/246	254/228	295/285

Unique alleles characteristic of varieties with high frost resistance are highlighted in green.  
Unique alleles characteristic of varieties with a low degree of spinosity are highlighted in yellow.