Supplemental Data for:

Ibáñez, J., G. Muñoz-Organero, L. Hasna Zinelabidine, M.T. de Andrés, F. Cabello, and J.M. Martínez-Zapater. 2012. Genetic origin of the grapevine cultivar Tempranillo.
Am. J. Enol. Vitic. 63:549-553. doi: 10.5344/ajev.2012.12012.

Supplemental Table 1 Genotypes of the analyzed accessions at 243 nuclear SNP loci (0: missing data; 1: A; 2:C; 3:G; 4:T).

SNP	Albillo Mayor	Benedicto	Benedicto Falso de Aragón	Castellana Blanca	Coloraíllo	Marufo	Tempranillo
LFY-ET2_351A	1	1	1	1	1	1	1
LFY-ET2_351B	1	1	1	1	1	1	1
SNP1001_250A	3	3	1	3	1	1	3
SNP1001_250B	3	3	3	3	3	3	3
SNP1003_336A	2	2	2	1	2	2	2
SNP1003_336B	2	2	2	2	2	2	2
SNP1011_337A	2	2	2	4	4	2	2
SNP1011_337B	4	2	4	4	4	4	4
SNP1015_67A	3	1	3	3	1	1	3
SNP1015_67B	3	3	3	3	3	3	3
SNP1021_163A	1	1	1	1	1	1	1
SNP1021_163B	3	3	1	1	1	1	1
SNP1023_227A	2	2	2	2	2	2	2
SNP1023_227B	2	2	2	2	4	4	2
SNP1025_100A	2	2	2	2	2	2	2
SNP1025_100B	4	2	2	4	2	2	4
SNP1027_69A	2	2	2	2	2	2	2
SNP1027_69B	2	4	4	4	2	4	2
SNP1029_57A	2	2	2	2	2	2	3
SNP1029_57B	3	3	2	3	3	3	3
SNP1033_76A	4	4	4	4	4	4	4
SNP1033_76B	4	4	4	4	4	4	4
SNP1035_226A	2	4	4	2	2	2	2
SNP1035_226B	4	4	4	4	2	4	4
SNP1043_378A	2	2	2	2	2	2	2
SNP1043_378B	2	2	2	2	2	2	2
SNP1045_291A	3	3	3	3	3	3	3
SNP1045_291B	4	3	3	4	3	3	3
SNP1053_81A	1	1	1	1	3	1	1
SNP1053_81B	3	3	3	3	3	3	3
SNP1055_141A	1	1	1	1	1	1	1
SNP1055_141B	1	3	3	3	1	3	1
SNP1057_505A	2	2	2	2	2	2	2
SNP1057_505B	2	4	2	2	4	2	4
SNP1071_151A	4	2	0	4	4	4	4
SNP1071_151B	4	4	0	4	4	4	4
SNP1079_58A	1	1	1	1	0	1	1
SNP1079_58B	1	3	3	3	0	3	3
SNP1109_253A	4	2	2	2	2	2	2
SNP1109_253B	4	2	2	4	2	2	4
SNP1119_176A	2	1	1	1	1	1	2
SNP1119_176B	2	2	1	2	2	2	2
SNP1127_70A	3	3	3	3	3	3	3
SNP1127_70B	3	4	4	3	3	3	3
SNP1151_397A	1	1	1	1	1	1	1
SNP1151_397B	1	1	1	1	1	1	1
SNP1157_64A	4	4	4	4	4	4	4
SNP1157_64B	4	4	4	4	4	4	4
SNP1161_328A	2	2	2	2	2	2	2
SNP1161_328B	2	2	2	2	2	2	2
SNP1187_35A	2	2	2	2	2	2	2
SNP1187_35B	2	2	2	2	2	2	2
SNP1201_99A	1	1	1	1	1	1	1
SNP1201_99B	1	4	4	1	1	1	4
SNP1203_88A	4	4	4	4	4	4	4
SNP1203_88B	4	4	4	4	4	4	4
SNP1211_166A	1	0	0	0	0	0	4
SNP1211_166B	4	0	0	0	0	0	4
SNP1213_99A	4	4	4	4	4	4	4
SNP1213_99B	4	4	4	4	4	4	4
SNP1215_138A	2	2	2	2	2	2	2
SNP1215_138B	2	4	4	2	2	4	2
SNP1217_69A	0	4	4	4	4	4	0
SNP1217_69B	0	4	4	4	4	4	0

Supplemental Data for:

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Am. J. Enol. Vitic. 63:549-553. doi: 10.5344/ajev.2012.12012.

Supplemental Table 1 (cont.) Genotypes of the analyzed accessions at 243 nuclear SNP loci (0: missing data; 1: A; 2:C; 3:G; 4:T).

SNP	Albillo Mayor	Benedicto	Benedicto Falso de Aragón	Castellana Blanca	Coloraíllo	Marufo	Tempranillo
SNP1219_191A	1	3	3	1	3	3	1
SNP1219_191B	3	3	3	3	3	3	3
SNP1229_219A	2	2	2	2	2	3	2
SNP1229_219B	2	2	2	2	3	3	2
SNP1235_35A	2	2	2	2	2	2	2
SNP1235_35B	2	4	4	2	4	4	4
SNP1241_207A	2	2	2	2	2	2	2
SNP1241_207B	4	4	2	4	2	2	4
SNP1251_94A	4	4	4	4	4	4	4
SNP1251_94B	4	4	4	4	4	4	4
SNP1293_294A	1	3	3	0	1	3	1
SNP1293_294B	3	3	3	0	3	3	3
SNP1295_225A	2	4	4	4	4	4	2
SNP1295_225B	4	4	4	4	4	4	4
SNP129_237A	4	1	4	1	4	4	4
SNP129_237B	4	4	4	1	4	4	4
SNP1311_48A	4	2	2	2	2	4	2
SNP1311_48B	4	4	4	4	4	4	4
SNP1323_155A	1	1	1	1	1	2	1
SNP1323_155B	2	1	1	2	2	2	2
SNP1335_204A	2	2	2	2	2	2	2
SNP1335_204B	2	2	2	2	2	2	2
SNP1345_60A	2	2	2	2	2	2	2
SNP1345_60B	2	2	2	2	2	2	2
SNP1347_100A	1	1	3	1	1	1	3
SNP1347_100B	3	3	3	1	3	3	3
SNP1349_174A	1	1	1	1	1	1	1
SNP1349_174B	1	3	3	3	1	3	1
SNP135_316A	3	4	4	4	4	3	4
SNP135_316B	4	4	4	4	4	4	4
SNP1363_171A	3	3	3	3	3	3	3
SNP1363_171B	3	3	3	3	3	3	3
SNP1371_290A	1	1	1	1	1	1	1
SNP1371_290B	1	1	1	1	1	2	1
SNP1375_272A	2	2	2	2	2	2	2
SNP1375_272B	2	2	2	2	2	2	2
SNP1385_86A	3	4	4	3	4	3	3
SNP1385_86B	4	4	4	4	4	4	4
SNP1387_83A	1	1	1	1	1	1	1
SNP1387_83B	4	1	1	4	1	1	4
SNP1391_48A	1	1	3	3	1	3	1
SNP1391_48B	3	3	3	3	3	3	3
SNP1393_62A	3	3	3	3	3	3	3
SNP1393_62B	3	3	3	3	3	3	3
SNP1397_215A	2	2	2	2	2	2	2
SNP1397_215B	2	2	2	2	2	2	2
SNP1399_81A	1	1	1	1	1	1	1
SNP1399_81B	1	1	1	1	1	1	1
SNP1409_48A	3	3	3	1	3	3	3
SNP1409_48B	3	3	3	3	3	3	3
SNP1411_565A	1	1	1	1	1	1	1
SNP1411_565B	4	4	4	4	4	4	4
SNP1419_186A	2	2	2	2	2	2	2
SNP1419_186B	2	2	2	2	2	2	2
SNP1423_265A	3	4	4	4	3	3	4
SNP1423_265B	4	4	4	4	4	4	4
SNP1427_120A	1	1	1	1	1	1	1
SNP1427_120B	3	3	3	3	3	3	3
SNP1431_584A	4	4	1	1	4	4	4
SNP1431_584B	4	4	4	4	4	4	4
SNP1437_100A	1	1	1	1	3	3	1
SNP1437_100B	3	3	3	3	3	3	3
SNP1439_90A	1	1	3	1	1	1	1
SNP1439_90B	3	3	3	3	3	1	3

Supplemental Data for:

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Supplemental Table 1 (cont.) Genotypes of the analyzed accessions at 243 nuclear SNP loci (0: missing data; 1: A; 2:C; 3:G; 4:T).

SNP	Albillo Mayor	Benedicto	Benedicto Falso de Aragón	Castellana Blanca	Coloraíllo	Marufo	Tempranillo
SNP1445_218A	3	3	3	1	1	1	3
SNP1445_218B	3	3	3	3	3	1	3
SNP1453_40A	1	1	1	1	1	1	3
SNP1453_40B	3	3	3	3	3	3	3
SNP1471_179A	2	2	2	4	2	2	2
SNP1471_179B	4	4	4	4	4	4	4
SNP1473_95A	2	2	2	2	2	2	2
SNP1473_95B	2	4	4	2	2	2	2
SNP1481_156A	3	3	3	3	3	3	3
SNP1481_156B	3	3	3	3	3	3	3
SNP1487_41A	3	1	3	1	1	1	3
SNP1487_41B	3	3	3	3	3	1	3
SNP1493_58A	3	3	3	3	2	2	3
SNP1493_58B	3	3	3	3	3	3	3
SNP1495_148A	2	2	2	4	2	2	2
SNP1495_148B	4	2	2	4	2	2	2
SNP1499_126A	4	4	2	4	4	4	4
SNP1499_126B	4	4	4	4	4	4	4
SNP1507_64A	2	2	2	2	2	2	2
SNP1507_64B	2	2	2	2	2	4	2
SNP1513_153A	2	2	2	2	2	2	2
SNP1513_153B	2	2	4	2	2	4	2
SNP1517_271A	1	1	1	1	1	1	1
SNP1517_271B	2	2	2	2	2	2	2
SNP1519_47A	4	2	2	2	2	2	4
SNP1519_47B	4	4	4	4	4	4	4
SNP1527_144A	2	2	2	2	2	2	2
SNP1527_144B	2	4	2	4	4	4	2
SNP1549_375A	2	2	2	2	2	2	2
SNP1549_375B	2	2	2	2	2	2	2
SNP1553_395A	1	1	1	1	1	1	1
SNP1553_395B	1	1	1	3	1	1	1
SNP1559_291A	2	2	3	2	2	2	2
SNP1559_291B	2	3	3	3	2	2	2
SNP1563_280A	2	2	4	2	2	2	2
SNP1563_280B	2	4	4	2	4	4	2
SNP1583_159A	2	2	2	4	4	2	2
SNP1583_159B	4	2	2	4	4	4	4
SNP189_131A	2	4	4	2	4	4	4
SNP189_131B	4	4	4	4	4	4	4
SNP191_100A	2	2	2	2	2	2	2
SNP191_100B	2	2	2	2	2	2	2
SNP197_82A	1	1	1	1	1	2	1
SNP197_82B	1	2	1	2	2	2	1
SNP209_255A	4	1	4	4	4	4	4
SNP209_255B	4	4	4	4	4	4	4
SNP217_190A	2	2	2	2	2	2	2
SNP217_190B	2	2	2	2	2	2	2
SNP219_172A	1	0	0	0	0	0	1
SNP219_172B	1	0	0	0	0	0	1
SNP227_191A	1	1	1	1	1	1	1
SNP227_191B	1	2	2	1	2	2	2
SNP229_112A	2	1	1	2	1	2	1
SNP229_112B	2	2	2	2	2	2	2
SNP241_201A	3	2	2	3	3	3	2
SNP241_201B	3	3	3	3	3	3	3
SNP249_125A	2	2	2	2	2	2	2
SNP249_125B	2	2	2	2	2	2	2
SNP253_145A	2	2	2	1	0	2	2
SNP253_145B	2	2	2	2	0	2	2
SNP255_265A	1	1	1	1	3	1	1
SNP255_265B	1	3	1	1	3	3	3
SNP259_199A	1	1	1	1	1	4	1
SNP259_199B	4	1	1	1	4	4	1

Supplemental Data for:

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Supplemental Table 1 (cont.) Genotypes of the analyzed accessions at 243 nuclear SNP loci (0: missing data; 1: A; 2:C; 3:G; 4:T).

SNP	Albillo Mayor	Benedicto	Benedicto Falso de Aragón	Castellana Blanca	Coloraíllo	Marufo	Tempranillo
SNP269_308A	3	3	1	3	1	1	3
SNP269_308B	3	3	3	3	3	3	3
SNP281_64A	4	4	4	1	1	1	4
SNP281_64B	4	4	4	4	4	4	4
SNP283_32A	2	2	2	2	2	2	2
SNP283_32B	2	2	2	2	2	2	2
SNP289_84A	3	1	1	1	1	1	3
SNP289_84B	3	3	1	3	3	3	3
SNP293_20A	1	1	1	1	1	1	1
SNP293_20B	1	1	1	1	1	1	1
SNP311_198A	1	1	1	1	1	1	1
SNP311_198B	1	1	2	1	1	1	1
SNP317_155A	3	3	3	3	3	3	3
SNP317_155B	3	3	4	4	3	3	3
SNP325_65A	4	4	4	1	1	1	4
SNP325_65B	4	4	4	4	4	1	4
SNP341_196A	2	2	2	2	2	2	2
SNP341_196B	3	2	2	3	2	2	2
SNP345_421A	1	1	1	1	1	1	1
SNP345_421B	1	1	1	1	1	1	1
SNP351_85A	2	2	2	2	4	2	4
SNP351_85B	4	4	4	4	4	4	4
SNP355_154A	4	4	4	4	4	4	4
SNP355_154B	4	4	4	4	4	4	4
SNP357_371A	2	2	2	2	2	2	2
SNP357_371B	3	2	3	2	3	3	3
SNP377_251A	1	1	1	1	1	1	1
SNP377_251B	1	1	1	1	1	1	1
SNP391_170A	3	3	3	3	3	3	3
SNP391_170B	3	3	3	3	3	3	3
SNP397_331A	2	2	2	2	2	2	2
SNP397_331B	2	2	2	2	2	2	2
SNP401_21A	0	2	2	2	2	2	0
SNP401_21B	0	4	4	4	2	4	0
SNP415_209A	1	1	1	1	1	1	1
SNP415_209B	1	1	1	1	1	4	1
SNP421_234A	3	1	1	1	1	1	1
SNP421_234B	3	1	1	3	3	1	3
SNP425_205A	1	1	1	1	1	1	1
SNP425_205B	1	1	1	1	1	1	1
SNP429_101A	0	4	0	4	4	2	0
SNP429_101B	0	4	0	4	4	4	0
SNP437_129A	4	0	0	0	0	0	4
SNP437_129B	4	0	0	0	0	0	4
SNP447_244A	2	2	4	2	2	2	2
SNP447_244B	4	4	4	2	2	4	2
SNP451_287A	2	3	3	2	3	3	3
SNP451_287B	3	3	3	3	3	3	3
SNP453_375A	4	2	2	2	2	2	4
SNP453_375B	4	4	2	4	4	4	4
SNP455_141A	2	2	4	4	4	2	4
SNP455_141B	4	4	4	4	4	4	4
SNP457_192A	4	4	4	4	4	4	4
SNP457_192B	4	4	4	4	4	4	4
SNP459_140A	1	1	1	1	1	1	1
SNP459_140B	1	1	1	1	1	1	1
SNP463_296A	3	3	3	3	3	3	3
SNP463_296B	3	3	3	3	3	3	3
SNP477_239A	3	3	3	3	3	3	3
SNP477_239B	3	3	3	3	3	3	3
SNP497_281A	1	1	1	1	1	1	1
SNP497_281B	1	1	1	1	1	1	1
SNP517_224A	3	1	3	1	3	3	3
SNP517_224B	3	3	3	3	3	3	3

Supplemental Data for:

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Supplemental Table 1 (cont.) Genotypes of the analyzed accessions at 243 nuclear SNP loci (0: missing data; 1: A; 2:C; 3:G; 4:T).

SNP	Albillo Mayor	Benedicto	Benedicto Falso de Aragón	Castellana Blanca	Coloraíllo	Marufo	Tempranillo
SNP533_161A	3	3	1	3	3	3	3
SNP533_161B	3	3	3	3	3	3	3
SNP543_268A	1	1	1	1	1	1	1
SNP543_268B	1	4	4	1	4	1	4
SNP551_351A	4	2	2	2	4	2	4
SNP551_351B	4	4	2	4	4	4	4
SNP553_98A	1	1	1	1	3	1	1
SNP553_98B	1	3	1	1	3	3	3
SNP555_132A	1	1	1	1	1	1	1
SNP555_132B	1	2	2	1	2	1	2
SNP557_104A	1	3	1	3	1	3	1
SNP557_104B	3	3	3	3	3	3	3
SNP559_110A	3	1	3	3	3	3	1
SNP559_110B	3	3	3	3	3	3	3
SNP561_120A	1	3	1	1	1	3	1
SNP561_120B	1	3	1	1	1	3	3
SNP567_341A	4	2	4	2	4	4	4
SNP567_341B	4	4	4	4	4	4	4
SNP569_266A	3	0	0	0	0	0	3
SNP569_266B	3	0	0	0	0	0	3
SNP571_227A	1	1	1	3	1	3	1
SNP571_227B	3	3	3	3	3	3	1
SNP575_128A	4	2	2	2	2	2	2
SNP575_128B	4	2	2	4	4	2	4
SNP579_187A	4	4	2	0	4	2	4
SNP579_187B	4	4	4	0	4	4	4
SNP581_114A	1	3	1	3	1	3	1
SNP581_114B	3	3	3	3	3	3	3
SNP591_148A	1	0	0	0	0	0	4
SNP591_148B	4	0	0	0	0	0	4
SNP593_149A	4	2	2	2	2	2	4
SNP593_149B	4	4	4	4	4	4	4
SNP613_315A	2	2	2	2	2	2	2
SNP613_315B	2	2	4	2	2	4	2
SNP625_278A	2	2	2	2	2	2	2
SNP625_278B	2	2	2	2	2	2	2
SNP643_344A	1	0	0	0	0	0	1
SNP643_344B	1	0	0	0	0	0	1
SNP649_567A	2	2	2	2	2	2	2
SNP649_567B	4	4	4	4	4	4	2
SNP651_658A	2	2	2	2	2	2	2
SNP651_658B	2	2	2	2	2	2	2
SNP653_90A	3	3	3	3	3	3	3
SNP653_90B	3	3	3	3	3	3	3
SNP655_93A	2	2	2	2	2	2	2
SNP655_93B	2	2	2	2	2	2	2
SNP659_73A	2	2	2	2	2	4	2
SNP659_73B	2	2	2	4	4	4	2
SNP663_578A	1	1	1	3	1	1	1
SNP663_578B	3	3	1	3	3	3	3
SNP677_509A	3	3	3	3	3	3	3
SNP677_509B	3	3	3	3	3	4	3
SNP683_120A	3	3	3	3	3	3	3
SNP683_120B	3	3	3	3	3	3	3
SNP691_139A	1	3	3	1	3	3	1
SNP691_139B	1	3	3	3	3	3	3
SNP697_296A	1	1	1	1	1	3	1
SNP697_296B	1	1	1	1	3	3	1
SNP699_311A	4	4	4	4	2	2	4
SNP699_311B	4	4	4	4	4	4	4
SNP709_258A	2	2	2	2	2	2	2
SNP709_258B	4	4	4	4	2	4	4
SNP715_260A	2	2	2	2	2	2	2
SNP715_260B	2	2	2	2	2	2	2

Supplemental Data for:

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Supplemental Table 1 (cont.) Genotypes of the analyzed accessions at 243 nuclear SNP loci (0: missing data; 1: A; 2:C; 3:G; 4:T).

SNP	Albillo Mayor	Benedicto	Benedicto Falso de Aragón	Castellana Blanca	Coloraíllo	Marufo	Tempranillo
SNP729_210A	0	1	1	1	1	1	0
SNP729_210B	0	1	3	1	3	3	0
SNP811_42A	4	4	4	4	4	1	4
SNP811_42B	4	4	4	4	4	4	4
SNP817_209A	2	2	2	2	0	2	2
SNP817_209B	4	2	2	2	0	2	4
SNP819_210A	1	1	1	1	1	1	1
SNP819_210B	1	4	4	4	1	1	1
SNP829_281A	1	1	1	1	1	3	1
SNP829_281B	1	3	3	3	3	3	1
SNP841_308A	2	0	0	0	0	0	2
SNP841_308B	4	0	0	0	0	0	4
SNP843_76A	2	2	2	2	2	2	2
SNP843_76B	3	3	3	3	2	3	3
SNP845_140A	0	1	4	1	1	1	0
SNP845_140B	0	4	4	4	4	1	0
SNP851_110A	3	3	3	3	3	3	3
SNP851_110B	3	3	3	3	3	3	3
SNP853_312A	1	1	1	1	1	4	1
SNP853_312B	1	1	1	4	4	4	1
SNP855_103A	4	2	2	4	4	2	4
SNP855_103B	4	4	4	4	4	4	4
SNP859_294A	2	2	2	2	2	2	2
SNP859_294B	2	2	4	2	4	4	2
SNP865_80A	3	3	3	3	3	3	3
SNP865_80B	3	4	4	3	4	3	4
SNP867_170A	3	3	3	3	2	2	3
SNP867_170B	3	3	3	3	3	3	3
SNP871_167A	2	2	4	2	2	2	2
SNP871_167B	2	4	4	2	4	2	4
SNP873_244A	4	4	4	2	2	2	4
SNP873_244B	4	4	4	4	4	4	4
SNP877_268A	3	3	3	3	3	1	3
SNP877_268B	3	3	3	3	3	3	3
SNP879_308A	1	1	1	1	1	1	1
SNP879_308B	3	1	3	3	1	1	1
SNP881_202A	1	1	1	1	1	1	1
SNP881_202B	1	3	3	1	1	1	1
SNP883_160A	2	2	2	2	2	2	2
SNP883_160B	2	3	3	2	2	3	3
SNP887_49A	0	3	3	1	3	3	0
SNP887_49B	0	3	3	3	3	3	0
SNP891_109A	1	1	1	1	1	1	1
SNP891_109B	1	1	1	1	1	3	1
SNP895_382A	1	1	1	1	1	1	1
SNP895_382B	1	1	4	4	1	4	1
SNP897_57A	1	1	4	4	1	1	1
SNP897_57B	4	4	4	4	1	4	4
SNP915_88A	1	0	1	1	1	1	1
SNP915_88B	1	0	1	2	1	1	1
SNP925_320A	3	4	4	3	3	3	4
SNP925_320B	4	4	4	3	4	3	4
SNP941_388A	3	3	3	3	3	3	3
SNP941_388B	3	3	3	3	3	3	3
SNP945_88A	1	3	3	1	3	3	1
SNP945_88B	1	3	3	3	3	3	3
SNP947_288A	1	1	1	1	3	3	1
SNP947_288B	1	3	1	3	3	3	3
SNP961_139A	4	2	2	2	4	4	2
SNP961_139B	4	2	2	4	4	4	4
SNP977_386A	0	3	3	3	3	3	0
SNP977_386B	0	3	4	3	4	4	0
SNP987_26A	3	1	1	1	3	3	3
SNP987_26B	3	3	3	3	3	3	3

Supplemental Data for:

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Supplemental Table 1 (cont.) Genotypes of the analyzed accessions at 243 nuclear SNP loci (0: missing data; 1: A; 2:C; 3:G; 4:T).

SNP	Albillo Mayor	Benedicto	Benedicto Falso de Aragón	Castellana Blanca	Coloraíllo	Marufo	Tempranillo
VBFT_298A	2	2	2	2	2	2	2
VBFT_298B	4	4	4	4	2	2	4
VBFT_361A	1	1	1	1	1	1	1
VBFT_361B	1	1	1	1	1	1	1
VBFT_469A	4	4	4	4	4	4	4
VBFT_469B	4	4	4	4	4	4	4
Vvi_10329A	4	2	2	0	4	2	2
Vvi_10329B	4	2	2	0	4	4	4
Vvi_10353A	3	1	3	3	3	3	3
Vvi_10353B	3	3	3	3	3	3	3
Vvi_10383A	2	2	2	2	2	2	2
Vvi_10383B	2	4	2	2	4	4	2
Vvi_10516A	2	2	2	2	2	2	2
Vvi_10516B	2	2	2	2	2	2	2
Vvi_10777A	4	4	4	4	4	4	4
Vvi_10777B	4	4	4	4	4	4	4
Vvi_10992A	1	1	1	1	1	1	4
Vvi_10992B	4	4	4	1	4	4	4
Vvi_1113A	1	4	4	1	4	4	4
Vvi_1113B	4	4	4	4	4	4	4
Vvi_11273A	3	1	1	3	1	3	1
Vvi_11273B	3	3	3	3	3	3	3
Vvi_11572A	4	2	2	2	2	2	2
Vvi_11572B	4	2	2	4	4	4	4
Vvi_1187A	1	3	3	1	1	1	1
Vvi_1187B	3	3	3	3	3	3	3
Vvi_1196A	2	4	2	2	4	2	2
Vvi_1196B	2	4	4	4	4	4	4
Vvi_1222A	1	3	3	1	1	1	1
Vvi_1222B	1	3	3	1	3	3	3
Vvi_12732A	0	1	4	4	4	1	0
Vvi_12732B	0	4	4	4	4	4	0
Vvi_1280A	2	2	2	2	2	2	2
Vvi_1280B	4	4	2	4	2	4	2
Vvi_12805A	2	2	2	2	2	2	2
Vvi_12805B	2	2	2	4	2	4	2
Vvi_12882A	4	2	2	4	2	2	4
Vvi_12882B	4	4	4	4	4	4	4
Vvi_13076A	1	4	4	1	4	4	1
Vvi_13076B	4	4	4	4	4	4	4
Vvi_1617A	1	2	2	1	1	1	1
Vvi_1617B	1	2	2	2	2	2	2
Vvi_1731A	1	1	1	2	1	1	2
Vvi_1731B	2	2	2	2	2	2	2
Vvi_1810A	3	1	3	1	3	1	1
Vvi_1810B	3	3	3	3	3	3	3
Vvi_196A	3	3	3	3	3	3	3
Vvi_196B	3	3	3	3	3	3	3
Vvi_2021A	4	2	2	4	4	2	2
Vvi_2021B	4	4	4	4	4	4	4
Vvi_221A	4	4	4	4	4	4	4
Vvi_221B	4	4	4	4	4	4	4
Vvi_2283A	1	1	1	1	3	1	1
Vvi_2283B	3	3	3	3	3	3	3
Vvi_2292A	1	1	1	1	1	1	1
Vvi_2292B	1	1	1	1	1	1	1
Vvi_2319A	2	2	2	0	2	2	2
Vvi_2319B	2	2	2	0	2	4	2
Vvi_2543A	4	4	4	4	4	4	4
Vvi_2543B	4	4	4	4	4	4	4
Vvi_2623A	4	4	4	4	4	4	4
Vvi_2623B	4	4	4	4	4	4	4
Vvi_3163A	1	1	1	1	1	1	1
Vvi_3163B	1	3	1	3	1	1	3

Supplemental Data for:

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Supplemental Table 1 (cont.) Genotypes of the analyzed accessions at 243 nuclear SNP loci (0: missing data; 1: A; 2:C; 3:G; 4:T).

SNP	Albillo Mayor	Benedicto	Benedicto Falso de Aragón	Castellana Blanca	Coloraíllo	Marufo	Tempranillo
Vvi_3212A	1	1	1	1	1	1	1
Vvi_3212B	1	1	1	1	1	1	1
Vvi_3400A	4	4	4	3	3	3	4
Vvi_3400B	4	4	4	4	4	4	4
Vvi_377A	3	4	3	3	4	4	4
Vvi_377B	4	4	4	4	4	4	4
Vvi_3947A	2	2	2	2	2	2	2
Vvi_3947B	2	2	2	2	2	2	2
Vvi_4146A	2	0	0	0	0	0	2
Vvi_4146B	2	0	0	0	0	0	2
Vvi_5025A	0	0	4	4	0	2	0
Vvi_5025B	0	0	4	4	0	4	0
Vvi_5316A	2	0	0	2	0	0	1
Vvi_5316B	2	0	0	2	0	0	2
Vvi_5629A	2	2	2	2	2	2	2
Vvi_5629B	2	4	4	4	2	4	4
Vvi_589A	2	4	2	4	4	4	4
Vvi_589B	4	4	4	4	4	4	4
Vvi_6668A	2	2	2	2	2	2	2
Vvi_6668B	2	2	2	2	2	2	2
Vvi_6934A	3	3	3	3	3	3	3
Vvi_6934B	3	3	3	3	3	3	3
Vvi_6936A	4	4	4	1	1	1	4
Vvi_6936B	4	4	4	4	4	4	4
Vvi_6987A	3	3	3	3	3	3	3
Vvi_6987B	4	4	3	3	3	3	3
Vvi_7387A	1	1	1	1	1	1	1
Vvi_7387B	3	1	1	3	1	3	3
Vvi_7824A	1	0	0	1	1	1	1
Vvi_7824B	3	0	0	3	3	3	1
Vvi_7871A	2	2	2	2	2	2	2
Vvi_7871B	2	2	2	2	2	2	2
Vvi_805A	3	3	3	3	3	3	3
Vvi_805B	3	3	3	3	3	3	3
Vvi_9227A	1	4	4	0	4	4	4
Vvi_9227B	4	4	4	0	4	4	4
Vvi_9920A	1	1	1	3	1	1	1
Vvi_9920B	3	1	1	3	1	3	1

Supplemental Data for:

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Supplemental Table 2 Genotypes of the accessions studied at 26 nuclear microsatellite loci.

Microsatellite	Albillo Mayor	Benedicto	Benedicto Falso de Aragón	Castellana Blanca	Coloraíllo	Marufo	Tempranillo
VVIB01*	290	290	290	290	290	290	290
VVIB01	290	294	294	290	290	290	294
VMC1B11	167	167	167	167	173	185	173
VMC1B11	185	173	173	175	189	189	185
VVIH54	140	165	167	165	165	167	165
VVIH54	167	167	167	167	167	169	167
VVMD7	237	237	237	237	237	237	237
VVMD7	251	237	237	237	237	241	251
VVMD24	214	208	208	214	210	208	208
VVMD24	218	208	216	218	214	210	214
VVMD25	239	239	239	247	239	239	239
VVMD25	253	239	253	253	253	253	253
VVIN73	256	256	263	261	256	256	256
VVIN73	261	263	263	263	263	263	261
VVIP31	176	178	176	176	178	176	178
VVIP31	180	196	196	190	192	192	180
VVIP60	322	318	326	318	318	318	322
VVIP60	322	326	330	322	326	322	326
VVIQ52	84	82	84	84	84	84	84
VVIQ52	84	84	88	88	84	88	84
VVS2	141	131	135	141	141	141	141
VVS2	144	144	144	157	144	144	144
VVMD5	229	223	223	223	225	225	233
VVMD5	233	233	233	233	233	229	233
VVIN16	151	151	153	151	151	151	151
VVIN16	151	153	153	153	151	153	153
VVMD32	250	248	248	250	248	238	248
VVMD32	270	254	254	254	250	250	250
VVIV37	171	161	158	158	158	158	171
VVIV37	171	171	161	171	171	163	171
VVMD28	236	238	238	260	256	246	260
VVMD28	260	260	260	260	260	256	260
VMC4F3-1	167	179	183	183	179	175	179
VMC4F3-1	183	183	206	187	183	183	183
VVMD21	247	249	249	249	243	243	247
VVMD21	253	255	249	253	247	249	255
VVMD27	183	183	183	183	183	183	183
VVMD27	194	189	185	185	183	194	183
VVIV67	368	366	366	362	366	358	366
VVIV67	375	368	375	368	368	366	368
ZAG62	186	188	196	186	188	188	196
ZAG62	200	196	196	186	196	192	200
ZAG79	251	243	ND	251	247	247	247
ZAG79	257	247	ND	251	251	257	251
ZAG29	111	111	111	111	111	111	111
ZAG29	111	111	111	111	111	111	111
ZAG67	124	138	130	124	148	154	124
ZAG67	138	148	148	154	154	159	148
ZAG83	195	191	191	191	195	189	195
ZAG83	195	195	191	195	195	195	195
ZAG112	228	228	232	228	228	228	228
ZAG112	235	237	237	232	228	232	237

*In bold those loci used for the LOD estimations.

Supplemental Data for:

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Supplementary Table 3 Genotypes of the accessions studied at four chloroplast loci and corresponding chlorotypes (Arroyo-García et al. 2006).

Prime name		CPSSR5	CPSSR3	CCSSR9	CPSSR10	Haplotype
Albillo Mayor	P1	101	102	169	102	A
Tempranillo	F	101	102	169	102	A
Benedicto	P2	101	102	169	102	A
Marufo	P1	100	103	168	103	D
Coloraíllo	F	100	103	168	103	D
Tempranillo	P2	101	102	169	102	A

Supplemental Table 4 Comparative ampelographic descriptions of Tempranillo and its suggested parents: Albillo Mayor and Benedicto.

OIV code-descriptor	Albillo Mayor	Tempranillo	Benedicto
002 – Young shoot: distribution of anthocyanin coloration on prostrate hairs of tip	3 (overall)	3 (overall)	2 (piping)
003 – Young shoot: intensity of anthocyanin coloration on prostrate hairs of tip	5 (medium)	7 (high)	5 (medium)
004 – Young shoot: density of prostrate hairs on tip	6 (medium-high)	7 (high)	3 (low)
007 – Shoot: color of dorsal side of internodes	2 (green and red)	2 (green and red)	2 (green and red)
008 – Shoot: color of ventral side of internodes	2 (green and red)	2 (green and red)	2 (green and red)
015-2 – Shoot: intensity of anthocyanin coloration on bud scales	1 (absent)	4 (weak-medium)	6 (medium-high)
051 – Young leaf: color of the upper side of blade (4th leaf)	3 (bronze)	4 (copper-reddish)	4 (copper-reddish)
053 – Young leaf: density of prostrate hairs between main veins on lower side of blade (4th leaf)	6 (medium-high)	7 (high)	3 (low)
067 – Mature leaf: shape of blade	3 (pentagonal)	3 (pentagonal)	3 (pentagonal)
068 – Mature leaf: number of lobes	4 (seven)	4 (seven)	4 (seven)
070 – Mature leaf: area of anthocyanin coloration of main veins on upper side of blade	2 (at the petiolar point)	1 (absent)	1 (absent)
072 – Mature leaf: goffering of blade	3 (weak)	3 (weak)	3 (weak)
074 – Mature leaf: profile of blade in cross section	5 (twisted)	5 (twisted)	5 (twisted)
075 – Mature leaf: blistering of upper side of blade	3 (weak)	5 (medium)	3 (weak)
076 – Mature leaf: shape of teeth	2 (straight)	5 (mixture)	5 (mixture)
079 – Mature leaf: degree of opening/overlapping of petiole sinus	5 (closed)	7 (overlapped)	5 (closed)
080 – Mature leaf: shape of base of petiole sinus	2 (brace)	3 (V-shaped)	2 (brace)
81-1 – Mature leaf: teeth in the petiole sinus	1 (none)	1 (none)	9 (present)
81-2 – Mature leaf: petiole sinus base limited by veins	1 (not limited)	1 (not limited)	1 (not limited)
082 – Mature leaf: degree of opening/overlapping of upper lateral sinus	3 (slightly overlapped)	3 (slightly overlapped)	3 (slightly overlapped)
83-1 – Mature leaf: shape of base of upper lateral sinus	2 (brace)	2 (brace)	2 (brace)
83-2 – Mature leaf: teeth in the upper lateral sinus	9 (present)	1 (absent)	9 (present)
084 – Mature leaf: density of prostrate hairs between the main veins on lower side of blade	5 (medium)	3 (low)	1 (none)
087 – Mature leaf: density of erect hairs on main veins on lower side of blade	3 (low)	7 (high)	3 (low)
094 – Mature leaf: depth of upper lateral sinuses	7 (deep)	7 (deep)	7 (deep)
202 – Bunch: length	4 (short-medium)	5 (medium)	5 (medium)
203 – Bunch: width	3 (short)	4 (short-medium)	4 (short-medium)
204 – Bunch: density	7 (dense)	7 (dense)	3 (loose)
206 – Bunch: length of peduncle of primary bunch	1 (very short)	3 (short)	1 (very short)
208 – Bunch: shape	1-2 (cylindrical-conical)	1 (cylindrical)	2 (conical)
209 – Bunch: number of wings of the primary bunch	2 (1-2)	3 (3-4)	3 (3-4)
220 – Berry: length	3 (short)	3 (short)	4 (short-medium)
221 – Berry: width	7 (wide)	6 (medium-wide)	6 (medium-wide)
223 – Berry: shape	2 (globose)	2 (globose)	2 (globose)
225 – Berry: color of skin	1 (green-yellow)	6 (blue-black)	6 (blue-black)
231 – Berry: intensity of the anthocyanin coloration of flesh	1 (none)	1 (none)	1 (none)
236 – Berry: particularity of flavor	1 (none)	1 (none)	1 (none)
241 – Berry: formation of seeds	3 (complete)	3 (complete)	3 (complete)
244 – Berry: transversal ridges on dorsal side of seeds	1 (none)	1 (none)	1 (none)
503 – Berry: single berry weight	2 (low)	2 (low)	2 (low)

Supplemental Data for:

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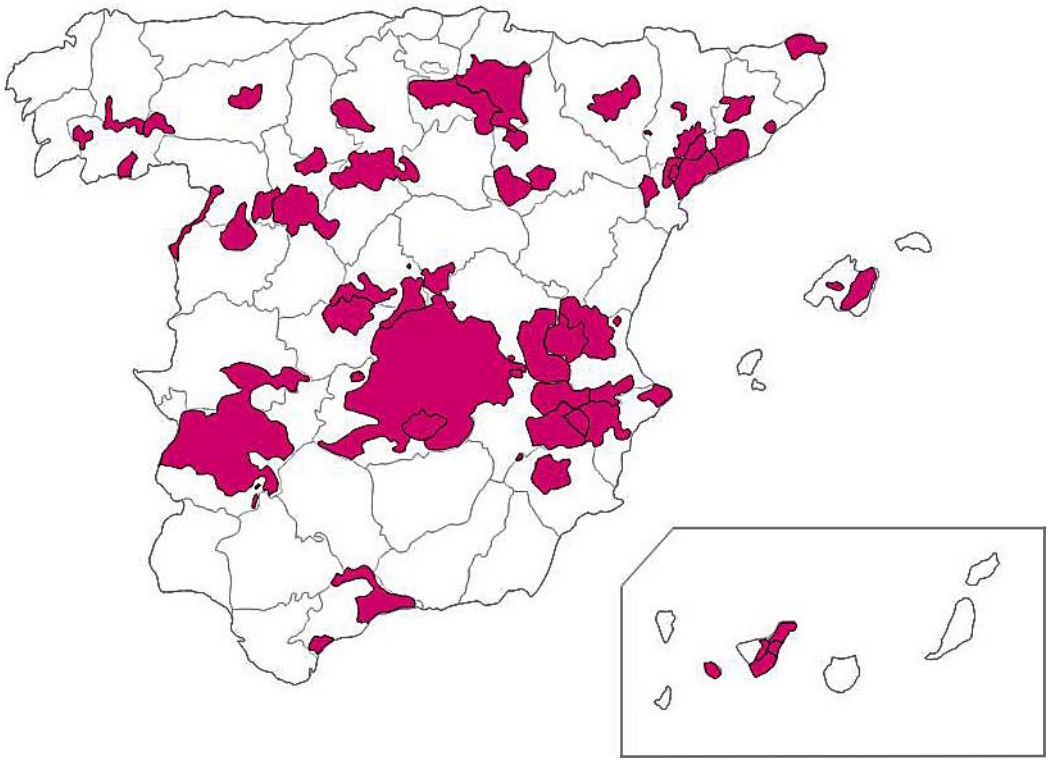

Supplemental Figure 1 Map of Spain depicting the location of Denominations of Origin that include Tempranillo in their list of varieties authorized for cultivation.