



Cabernet sauvignon (clone Rauscedo 5)

D'Onofrio C., Scalabrelli G., 2015. Cabernet sauvignon (clone Rauscedo 5). In: Italian Vitis Database, www.vitisdb.it, ISSN 2282-006X

release 02/06/2015, **Last update** 08/07/2015 **url** <http://vitisdb.it/accessions/show/15861>

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Dipartimento di Scienze Agrarie, Alimentari e Agro-ambientali (DiSAAA-a) - Università di Pisa

Acknowledgments

Fondazione AGER (AGER Fundation)

General information

name Cabernet sauvignon (clone Rauscedo 5)
country of selection Italia
province of selection not available
holding institution Dipartimento di Scienze Agrarie, Alimentari e Agro-ambientali (DiSAAA-a) - Università di Pisa
collection vineyard Colignola (DiSAAA-a) - San Giuliano Terme (PI)
code ITA419-1676
region of selection not available
locality of selection not available

Variety & clone

type of origin spontanea
specie Vitis vinifera
variety Cabernet Sauvignon
clone I - RAUSCEDO 5 SELEZ. FERRARI
trueness to type confirmed by ampelography and SSR-markers
genera Vitis
subspecie sativa
variety code IVD-var_45

Trueness to type

True-name

confirmed **yes**

►related bibliography (1)

authors	year	title	journal	citation
Cosmo I., Forti R., Sardi F.,	1960	Cabernet Sauvignon		Principali vitigni da vino coltivati in Italia. Volume I. Ministero dell'Agricoltura e delle Foreste.

Trueness to type confirmed by ampelography

confirmation by ampelography **confirmed**

►related bibliography (1)

authors	year	title	journal	citation
Cosmo I., Forti R., Sardi F.,	1960	Cabernet Sauvignon		Principali vitigni da vino coltivati in Italia. Volume I. Ministero dell'Agricoltura e delle Foreste.

Trueness to type confirmed by SSR-markers

confirmation by SSR-markers **confirmed**

►related bibliography (1)

authors	year	title	journal	citation
Lacombe L., Boursiquot J.M., Laucou V., Di Vecchi-Staraz M., Pérois J.P., This P.	2013	Large-scale parentage analysis in an extended set of grapevine cultivars (Vitis vinifera L.)	TAG Theoretical and Applied Genetics	126 (2): 401-414

compared loci **10**

identical loci **10**

discrepancies n.a.

Standardized microsatellite profile

loci:	predefined loci (9)																	
SSR locus:	VVS2		VVMD5		VVMD7		VVMD27		VrZAG62		VrZAG79		VVMD25		VVMD28		VVMD32	
allele:	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2	A1	A2
size:	139	151	231	239	239	239	175	189	188	194	247	247	240	250	237	239	241	241

other Locus info available online

Images



shoot



shootTipUs



shootTipLs



leaf



leafUs



leafLs



petiol sinus



bunch






berry



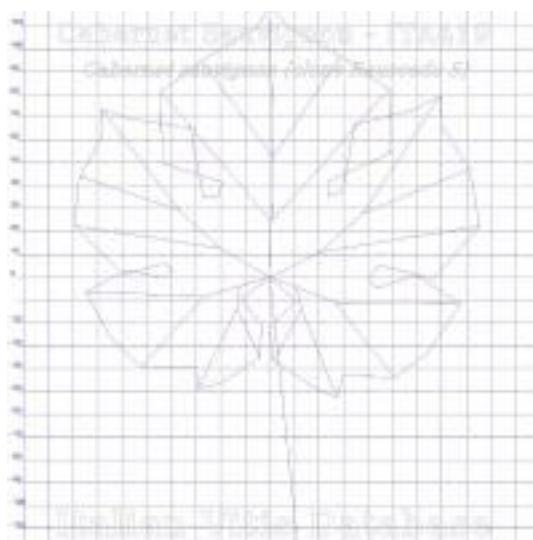
seed

Ampelography

OIV	description	value		images
001	Young shoot: opening of the shoot tip	5	fully open	
003	Young Shoot: intensity of anthocyanin coloration on prostrate hairs of tip	3 / 5	low / medium	
004	Young Shoot: density of prostrate hairs on tip	5 / 7	medium / high	
006	Shoot: attitude (before tying)	1 / 3	erect / semi-erect	
007	Shoot: color of dorsal side of internodes	1	green	
008	Shoot: color of ventral side of internodes	1	green	
016	Shoot: number of consecutive tendrils	1	2 or less	
051	Young leaf: color of the upper side of blade (4 th leaf)	3	bronze	
053	Young leaf: density of prostrate hairs between main veins on lower side of blade (4th leaf)	5	medium	
067	Mature leaf: shape of blade	3	pentagonal	

068	Mature leaf: number of lobes	4	seven	
070	Mature leaf: area of anthocyanin coloration of main veins on upper side of blade	4	up to the 2nd bifurcation	
072	Mature leaf: goffering of blade	3 / 5	weak / medium	
074	Mature leaf: profile of blade in cross section	1	flat	
075	Mature leaf: blistering of upper side of blade	5 / 7	medium / strong	
076	Mature leaf: shape of teeth	3	both sides convex	
079	Mature leaf: degree of opening / overlapping of petiole sinus	3 / 5	open / closed	
080	Mature leaf: shape of base of petiole sinus	1	U-shaped	
081-1	Mature leaf: teeth in the petiole sinus	1	none	
081-2	Mature leaf: petiole sinus base limited by veins	2	on one side	
083-2	Mature leaf: teeth in the upper lateral sinuses	1	none	
084	Mature leaf: density of prostrate hairs between the main veins on lower side of blade	3	low	
087	Mature leaf: density of erect hairs on main veins on lower side of blade	1	none or very low	
094	Mature leaf: depth of upper lateral sinuses	7	deep	
151	Flower: sexual organs	3	fully developed stamens and fully developed gynoecium	
152	Inflorescence: insertion of 1 st inflorescence	2	3rd and 4th node	
155	Shoot: fertility of basal buds (buds 1-3)	5 / 7	medium (1,1-1,3) / high (1,5-1,7)	
202	Bunch: length (peduncle excluded)	5	medium	
204	Bunch: density	5	medium	
206	Bunch: length of peduncle of primary bunch	3	short	
208	Bunch: shape	2	conical	
209	Bunch: number of wings of the primary bunch	1 / 2	absent / 1 - 2 wings	
220	Berry: length	3	short	
221	Berry: width	3	narrow	
223	Berry: shape	1	obloid	
225	Berry: color of skin	6	blue black	
231	Berry: intensity of flesh anthocyanin coloration	5	medium	
235	Berry: firmness of flesh	1	soft	
236	Berry: particularity of flavor	4	herbaceous	
241	Berry: formation of seeds	3	complete	

Ampelometry



ampelometric leaf

OIV

OIV	PDF	description	value	
601	PDF	Mature leaf: length of vein N1	3	short (105 mm)
602	PDF	Mature leaf: length of vein N2	5	medium (105 mm)
603	PDF	Mature leaf: length of vein N3	5	medium (75 mm)
604	PDF	Mature leaf: length of vein N4	9	very long (55 mm and over)
605	PDF	Mature leaf: length petiole sinus to upper lateral leaf sinus	3	short (50 mm)
606	PDF	Mature leaf: length petiole sinus to lower lateral leaf sinus	3	short (45 mm)
607	PDF	Mature leaf: angle between N1 and N2 measured at the first ramification	7	large (56°-70°)
608	PDF	Mature leaf: angle between N2 and N3 measured at the first ramification	5	medium (46°-55°)
609	PDF	Mature leaf: angle between N3 and N41) measured at the first ramification	7	large (56°-70°)
610	PDF	Mature leaf: angle between N3 and the tangent between petiole point	9	very large (> 70°)
612	PDF	Mature leaf: length of tooth N2	3	short (10 mm)
613	PDF	Mature leaf: width of tooth N2	5	medium (14 mm)
614	PDF	Mature leaf: length of tooth N4	1	very short (6 mm)
615	PDF	Mature leaf: width of tooth N4	5	medium (14 mm)
617	PDF	Mature leaf: length between the tooth tip of N2 and the tooth tip of the first secondary vein of N2	3	short (30-45 mm)

Superampelo

distances		
descriptor	value	standard deviation
Length of vein N2	106.300	7.600
Width of petiole sinus / Distance between points SP and SP'	-3.900	4.100
Length of vein N3	79.500	7.700
Length of vein N2'	101.000	9.000
Distance between the tooth tip of N2 and the tooth tip of the first ramification (secondary vein) of N2	44.600	12.900
Length of vein N3'	75.500	8.700
Distance between the tooth tip of N2' and the tooth tip of the first ramification (secondary vein) of N2'	46.000	17.400
Distance from the petiole sinus to the lower right sinus	40.900	4.900
Distance from the petiole sinus to the lower left sinus	39.900	5.300
Distance from the petiole sinus to the upper right sinus	42.800	4.500
Distance from the petiole sinus to the upper left sinus	41.200	5.800
Vein N3, length from the petiole sinus to vein N4	11.900	1.600
Vein N3', length from the petiole sinus to vein N4'	12.800	2.100
Length of vein N5	26.200	1.700
Length of vein N5'	23.500	3.000
Length of vein N4	51.900	4.700
Length of vein N4'	48.200	6.800
Distance between petiole point and end of vein N4	60.300	6.300
Distance between petiole point and end of vein N4'	57.000	8.400
Leaf width	156.400	14.200
Leaf length	174.000	11.600
Petiole length	117.500	10.800
Leaf length Including the petiole	236.500	15.300
Distance between the ends of veins N2 and N2'	138.400	19.300
Length of vein N1	119.000	6.700
Distance between the ends of veins N4 and N4'	57.200	13.100
Distance between the ends of veins N3 and N3'	153.500	13.600

angles		
descriptor	value	standard deviation
Angle between N1 and N2 measured at the first bifurcation	59.500	7.000
Angle between N2 and N3 measured at the first bifurcation	50.200	6.300
Angle between N1 and N2' measured at the first bifurcation	59.600	5.500
Angle between N3 and N4 at the first fork of N3	55.600	5.500
Angle between N2 and N3' measured at the first bifurcation	49.500	5.400
Angle between N1 and N2 measured at the ends of the veins	41.200	8.500
Angle between N3' and N4'	66.600	7.600
Angle between N2 and N3 measured at the ends of the veins	57.600	5.600
Angle between N1' and N2' measured at the ends of the veins	42.500	6.900
Angle between N3 and N4 measured at the ends of the veins	54.300	4.500
Angle between N2' and N3' measured at the ends of the veins	51.900	6.000
Angle of opening of the petiole sinus measured at SP and at SP'	11.100	6.200
Angle between N3' and N4' measured at the ends of the veins	54.600	4.900
Angle between S and S' with the center in N1	30.000	3.300
Angle between D and D' with the center in N1	102.600	9.600
Angle between N2 and N3 measured at the petiole point and between N2 and N3 tooth tip	79.600	7.800
Angle between I and I' with the center in N1	37.400	2.700
Angle between N2 and N3 measured at the petiole point and between N2' and N3' tooth tip	79.000	4.700

ratios		
descriptor	value	standard deviation
Multiplication between length and width of the leaf	27358.000	4124.000
Ratio between the length of the petiole OP and the length of the vein N1	0.989	0.080
Ratio between length and width of the leaf	1.115	0.041
Ratio between the distance from the sinus and the length of the vein N2	0.403	0.035
Media of the base of the teeth of the left side	7.582	1.628
Media of the base of the teeth of the right side	6.691	1.528
Media height of the teeth of the left side	6.126	1.454
Ratio between the height and the base of the tooth at the end of the vein N4'	0.594	0.116
Media height of the teeth of the right side	5.696	1.454
Ratio between the height and the base of the tooth at the end of the vein N2'	0.730	0.168
Ratio between the height and the base of the tooth at the end of the vein N4	0.602	0.160
Ratio between the height and the base of the teeth of the left side	0.841	0.287
Ratio between the height and the base of the tooth at the end of the vein N2	0.777	0.166
Ratio between the sum of the angles a' + b' and the sum of the distance between the petiole sinus and upper right sinus OS' and the petiole sinus and lower right lower right sinus OI'	0.024	0.002
Ratio between the height and the base of the teeth of the right side	0.886	0.256
Ratio between the length of the vein N5' and the length of the vein N1	0.198	0.024
Ratio between the sum of the angles a + b and the sum of the distance between the petiole sinus and upper right sinus OS and the petiole sinus and lower right lower right sinus OI	0.023	0.003
Ratio between the length of the vein N4' and the length of the vein N1	0.405	0.048
Ratio between the length of the vein N5 and the length of the vein N1	0.221	0.020
Ratio between the length of the vein N3' and the length of the vein N1	0.634	0.058
Ratio between the length of the vein N4 and the length of the vein N1	0.437	0.034
Ratio between the length of the vein N2' and the length of the vein N1	0.848	0.052
Ratio between the length of the vein N3 and the length of the vein N1	0.668	0.051
Ratio between the distance from the petiole sinus to the lower left sinus OI' and the length of vein N3'	0.529	0.037
Ratio between the length of the vein N2 and the length of the vein N1	0.894	0.045
Ratio between the distance from the sinus and the length of the vein N2'	0.408	0.049
Ratio between the distance from the petiole sinus to the lower right sinus OI and the length of vein N3	0.515	0.043

Phenology & production

OIV	description	value	
301	Time of bud burst	5 / 7	medium / late
303	Time of beginning of berry ripening (veraison)	3 / 5	early / medium
351	Vigor of shoot growth	5 / 7	medium (70-80 g) / strong (90-100 g)
502	Bunch: weight of a single bunch	1 / 3	very low (<150 g) / low (250-350 g)
503	Berry: single berry weight	1 / 2	very low (<1,5 g) / between very low and low (1,5-2,5 g)
504	Yield per m2	3 / 5	low (1,0-1,2 kg) / medium (1,4-1,6 kg)
505	Sugar content of must	5 / 7	medium (17,2-18,8) / high (20,2-21,8)
506	Total acid content of must	3	low (5,2-6,8)
508	must specific pH	7	high (3,4-3,5)

Agronomic

plant spacing & training system	value	standard deviation	number of years
Training system	Guyot		
Pruning System			
Distance between rows (m)	3.000		
Distance on the row (m)	1.000		

vigor	value	standard deviation	number of years
Cane's weight (g)	0.087	0.006	2
Pruning wood's weight per vine (kg)	1.033		2
Pruning wood's weight per vine meter of row (kg)	1.033		2
Number of shoots/canes per vine (number/vine)	10.000		2
Number of shoots/canes per meter of row (number/m)	10.000		2

fertility	value	standard deviation	number of years
Fertility of basal buds (bunch/bud)	1.333	0.648	2
Number of bunch per shoots at flowering (number/shoot)	1.430	0.650	2

production's quantitative characteristics	value	standard deviation	number of years
Number of bunches per meter of row (number/m)	10.000		2
Number of bunches per vine (number/vine)	14.250	5.670	2
Weight of 100 berries (g)	1.645	0.091	2
Bunch's weight (g)	155.170	69.530	2
Grape production per hectare (t/ha)	14.417		2
Grape production per meter of row (kg/m)	4.325		2
Grape production per vine (kg/ceppo)	4.325	0.106	2

production's qualitative characteristics	value	standard deviation	number of years
Titrateable acidity of must (g/l)	6.000		2
pH (pH)	3.670		2
Sugar content of must (°Brix)	22.400		2

Berry polyphenols

no polyphenolic descriptors available for Cabernet sauvignon (clone Rauscedo 5)

Berry aroma

no aroma descriptors available for Cabernet sauvignon (clone Rauscedo 5)

Other descr.

no other descriptors available for Cabernet sauvignon (clone Rauscedo 5)

Accessions of the same variety (1)

- Cabernet sauvignon (clone Rauscedo 5) - Dipartimento di Scienze Agrarie, Alimentari e Agro-ambientali (DiSAAA-a) - Università di Pisa

Note

<p>Foto: Claudio D'Onofrio, Puntoni Piero</p> <p>Ampelografia: Claudio D'Onofrio, Belluomini Paolo, Calabrògrave; Rolando, Rocco Fausta</p> <p>Ampelometria: Claudio D'Onofrio</p> <p>Fenologia: Claudio D'Onofrio, Ducci Eleonora, Matarese Fabiola, Cuzzola Angela</p> <p>SSR: Claudio D'Onofrio, Matarese Fabiola</p>