



Luglienga

Schneider A., Ruffa P., Raimondi S., 2014. Luglienga ITA360-501 (Luglienga). In: Italian Vitis Database, www.vitisdb.it, ISSN 2282-006X

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Acknowledgments

Ager Foundation, Regione Piemonte

General information

name Luglienga **code** ITA360-501
country of selection Italia **region of selection** Piemonte
province of selection Biella **locality of selection** Candelo
holding institution Istituto per la Protezione Sostenibile delle Piante - CNR
collection vineyard Grinzane Cavour

Variety & clone

type of origin spontanea **genera** Vitis
specie Vitis vinifera **subspecie** sativa
variety Luglienga **variety code** IVD-var_479
clone not available
trueness to type confirmed by ampelography and SSR-markers

Trueness to type

True-name

confirmed **yes**

Trueness to type confirmed by ampelography

confirmation by ampelography **confirmed**

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., Péros 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 **7**

identical loci **7**

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:	145	155	227	235	247	247	185	185	192	194	239	251	242	250	237	249	253	263

Images



shoot



leaf



bunch




berry

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	low	
004	Young Shoot: density of prostrate hairs on tip	5	medium	
006	Shoot: attitude (before tying)	5	horizontal	
007	Shoot: color of dorsal side of internodes	2	green and red	
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)	1 / 4	green / copper - reddish	
053	Young leaf: density of prostrate hairs between main veins on lower side of blade (4th leaf)	3	low	
067	Mature leaf: shape of blade	2	wedge-shaped	
068	Mature leaf: number of lobes	2 / 3	three / five	
070	Mature leaf: area of anthocyanin coloration of main veins on upper side of blade	2 / 3	only at the petiolar point / up to the 1st bifurcation	
072	Mature leaf: goffering of blade	1	absent or very weak	
074	Mature leaf: profile of blade in cross section	1	flat	
075	Mature leaf: blistering of upper side of blade	3 / 5	weak / medium	
076	Mature leaf: shape of teeth	2	both sides straight	
079	Mature leaf: degree of opening / overlapping of petiole sinus	1 / 3	very wide open / open	
080	Mature leaf: shape of base of petiole sinus	1 / 2	U-shaped / brace-shaped ({})	
081-1	Mature leaf: teeth in the petiole sinus	1	none	
081-2	Mature leaf: petiole sinus base limited by veins	1	not limited	
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	1	none or very low	
087	Mature leaf: density of erect hairs on main veins on lower side of blade	3	low	
094	Mature leaf: depth of upper lateral sinuses	5	medium	
151	Flower: sexual organs	3	fully developed stamens and fully developed gynoecium	
202	Bunch: length (peduncle excluded)	5	medium	
204	Bunch: density	5 / 7	medium / dense	
206	Bunch: length of peduncle of primary bunch	5	medium	
208	Bunch: shape	2	conical	
209	Bunch: number of wings of the primary bunch	2	1 - 2 wings	

220	Berry: length	5	medium
221	Berry: width	3 / 5	narrow / medium
223	Berry: shape	4	narrow ellipsoid
225	Berry: color of skin	1	green yellow
231	Berry: intensity of flesh anthocyanin coloration	1	none or very weak
235	Berry: firmness of flesh	1	soft
236	Berry: particularity of flavor	1	none
241	Berry: formation of seeds	3	complete



Ampelometry

OIV

no descriptors available for Luglienga

Superampelo

descriptor	distances	value	standard deviation
Length of vein N4		47.010	4.820
Leaf length		180.290	11.210
Leaf width		164.940	11.820
Leaf length Including the petiole		212.430	5.800
Petiole length		83.200	5.440
Length of vein N1		129.240	5.710
Distance between the ends of veins N2 and N2'		157.850	11.170
Distance between the ends of veins N3 and N3'		157.020	11.620
Distance between the ends of veins N4 and N4'		72.060	9.190
Width of petiole sinus / Distance between points SP and SP'		-25.620	6.080
Length of vein N2		108.870	6.700
Length of vein N2'		111.040	7.580
Length of vein N3		80.130	7.670
Length of vein N3'		78.780	6.230
Distance between the tooth tip of N2' and the tooth tip of the first ramification (secondary vein) of N2'		53.410	9.950
Distance between the tooth tip of N2 and the tooth tip of the first ramification (secondary vein) of N2		49.610	9.200
Distance from the petiole sinus to the lower left sinus		50.990	9.620
Distance from the petiole sinus to the lower right sinus		52.060	8.880
Distance from the petiole sinus to the upper left sinus		43.070	6.860
Distance from the petiole sinus to the upper right sinus		42.890	5.740
Vein N3', length from the petiole sinus to vein N4'		14.450	1.850
Vein N3, length from the petiole sinus to vein N4		15.940	2.140
Length of vein N5'		19.940	3.220
Length of vein N5		19.650	2.600
Length of vein N4'		46.880	4.750

angles		
descriptor	value	standard deviation
Angle between N1 and N2 measured at the first bifurcation	55.460	3.740
Angle between N1 and N2' measured at the first bifurcation	56.370	3.440
Angle between N2 and N3 measured at the first bifurcation	53.200	3.980
Angle between N2 and N3' measured at the first bifurcation	51.850	6.540
Angle between N3 and N4 at the first fork of N3	61.270	2.560
Angle between N3' and N4'	62.030	5.630
Angle between N1 and N2 measured at the ends of the veins	45.080	6.170
Angle between N1' and N2' measured at the ends of the veins	46.750	5.380
Angle between N2 and N3 measured at the ends of the veins	52.330	4.710
Angle between N2' and N3' measured at the ends of the veins	52.150	5.440
Angle between N3 and N4 measured at the ends of the veins	42.750	5.510
Angle between N3' and N4' measured at the ends of the veins	45.360	4.840
Angle of opening of the petiole sinus measured at SP and at SP'	59.130	12.850
Angle between D and D' with the center in N1	86.430	7.240
Angle between S and S' with the center in N1	27.700	4.860
Angle between I and I' with the center in N1	43.930	6.800

rations		
descriptor	value	standard deviation
Ratio between length and width of the leaf	1.100	0.060
Ratio between the length of the petiole OP and the length of the vein N1	0.650	0.060
Ratio between the distance from the sinus and the length of the vein N2	0.390	0.050
Ratio between the distance from the sinus and the length of the vein N2'	0.390	0.070
Ratio between the distance from the petiole sinus to the lower right sinus OI and the length of vein N3	0.650	0.110
Ratio between the distance from the petiole sinus to the lower left sinus OI' and the length of vein N3'	0.650	0.100
Ratio between the length of the vein N2 and the length of the vein N1	0.840	0.060
Ratio between the length of the vein N2' and the length of the vein N1	0.860	0.040
Media of the base of the teeth of the left side	12.390	1.860
Media height of the teeth of the left side	7.150	1.150
Media of the base of the teeth of the right side	11.890	2.080
Media height of the teeth of the right side	7.290	1.810
Ratio between the height and the base of the tooth at the end of the vein N4'	0.810	0.140
Ratio between the height and the base of the tooth at the end of the vein N4	0.790	0.090
Ratio between the height and the base of the tooth at the end of the vein N2'	0.960	0.130
Ratio between the height and the base of the tooth at the end of the vein N2	0.920	0.120
Ratio between the height and the base of the teeth of the left side	0.580	0.050
Ratio between the height and the base of the teeth of the right side	0.610	0.080
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'	0.020	0.000
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	0.020	0.000
Ratio between the length of the vein N5' and the length of the vein N1	0.150	0.020
Ratio between the length of the vein N5 and the length of the vein N1	0.150	0.020
Ratio between the length of the vein N4' and the length of the vein N1	0.360	0.030
Ratio between the length of the vein N4 and the length of the vein N1	0.360	0.040
Ratio between the length of the vein N3' and the length of the vein N1	0.610	0.040
Ratio between the length of the vein N3 and the length of the vein N1	0.620	0.070

Phenology & production

OIV	description	value	
301	Time of bud burst	5	medium
303	Time of beginning of berry ripening (veraison)	1	very early
304	Time of physiological stage of full maturity of the berry	1	very early

Agronomic

plant spacing & training system	value	standard deviation	number of years
Training system			
Pruning System			
Distance on the row (m)	1.000		
Distance between rows (m)	2.800		

vigor	value	standard deviation	number of years
Cane's weight (g)	124.000	29.000	3
Pruning wood's weight per vine (kg)	0.770	0.180	4
Pruning wood's weight per vine meter of row (kg)	0.770	0.180	4
Number of shoots/canes per vine (number/vine)	6.300	0.600	3
Number of shoots/canes per meter of row (number/m)	6.300	0.600	3

fertility	value	standard deviation	number of years
Number of bunch per shoots at flowering (number/shoot)	1.600	0.100	4

production's quantitative characteristics	value	standard deviation	number of years
Grape production per hectare (t/ha)	9.680	5.780	4
Weight of 100 berries (g)	275.400	12.900	4
Bunch's weight (g)	327.100	73.900	4
Number of bunches per vine (number/vine)	10.000	5.300	4
Grape production per vine (kg/ceppo)	2.710	1.620	4
Grape production per meter of row (kg/m)	2.710	1.620	4

production's qualitative characteristics	value	standard deviation	number of years
Titrateable acidity of must (g/l)	6.200	1.000	4
Anthocyanins coloration of flesh? (yes/no)	<input type="checkbox"/> no	not available	not available
pH (pH)	3.310	0.090	4
Sugar content of must (°Brix)	16.800	1.900	4

Berry polyphenols

no polyphenolic descriptors available for Luglienga

Berry aroma

no aroma descriptors available for Luglienga

Other descr.

no other descriptors available for Luglienga

Accessions of the same variety (3)

- Luglienga - Istituto per la Protezione Sostenibile delle Piante - CNR
- Lugliesa (Garf-GR) - Dipartimento di Scienze Agrarie, Alimentari e Agro-ambientali (DiSAAA-a) - Università di Pisa
- Lugliese - Dipartimento di Scienze Agrarie, degli Alimenti e dell'Ambiente (SAFE) - Università degli Studi di Foggia