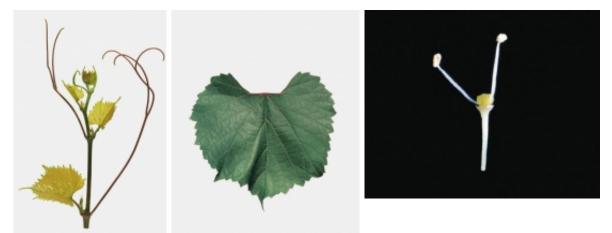


Catalogue of vines grown in France http://plantgrape.plantnet-project.org

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1103 Paulsen



Name of variety in France (and usual designation)

1103 Paulsen (1103 P)

Breeder/selector and year of obtention

Federico Paulsen, 1896.

Genetic origin

This variety results from the crossbreeding of Vitis berlandieri cv. Rességuier number 2 and Vitis rupestris cv. Lot.

Evolution of mother vine surfaces

	1965	1975	1985	1995	2005	2015	
ha	114	239	104	69	113	82	

Estimated surface area of French vines grafted with the rootstock, and main

9 000 ha. Charentes, Languedoc-Roussillon, Provence-Alpes-Côte d'Azur, Corsica, Aquitaine.

Descriptive elements

The identification is based on:

- the tip of the young shoot that is half opened, with a low density of prostate hairs,

- the slightly bronzed young leaves,

- the shoots with a bushy and horizontal bearing, a ribbed surface, red internodes on the dorsal side and green on the ventral side, no prostate hairs and a low density of erect hairs on the nodes,

- the fairly developped tendrils,

- the small to medium, wides, kidney-shaped, involute, twisted, and entire adult leaves, with an open petiole sinus, with naked petiole veins, a weak anthocyanin coloration of vein near the petiole sinus, short to medium length teeth compared to their width, a mate, rather light leaf blade, and on the lower side of the leaves, a low density of erect hairs and no or a very low density of prostate hairs,

- the male flowers.

enetic pro	file								
Microsatellite	VVS2	VVMD5	VVMD7	VVMD27	VRZAG62	VRZAG79	VVMD25	VVMD28	VVMD32
Allel 1	135	234	233	236	196	252	236	241	259

Microsatellite	VVS2	VVMD5	VVMD7	VVMD27	VRZAG62	VRZAG79	VVMD25	VVMD28	VVMD32	
Allel 2	145	234	257	249	214	264	249	251	259	

Resistance to soil parasites

1103 P is highly tolerant to the root form of phylloxera. On the other hand, its resistance to *Meloidogyne incognita* nematodes is moderate and it is sensitive to *Meloidogyne arenaria* nematodes.

Adaptation to the environment

1103 P resists up to 30% of "total" limestone, 17% of "active" limestone and an ICP of 30. Its resistance to iron chlorosis is moderate. It is well adapted to drought conditions along with compact soils and a possible significant temporary spring humidity. 1103 P absorbs well magnesium. In addition, it is well suited to acidic soil and has a fairly good tolerance to chlorides.

Interaction with grafts and production objectives

1103 P confers a high vigor and tends to produce suckers. This rootstock works well with Syrah, but some affinity problems have been noticed with Tempranillo.

Vegetative propagation aptitudes

1103 P wood production is low to medium (25 000 to 60 000 m/ha), with a certain proportion that can not be easily used (twisted or broken canes). The growth of lateral shoot buds is high, which contributes to the presence of tendrils, and makes this rootstock canes difficult to clean and disbud. 1103 P has a moderate cutting capacity and a very good grafting aptitude.

Resistance to aerial parasites

1103 P is moderately susceptible to the gall form of phylloxera and is highly resistant to downy mildew.

Clonal selection in France

In France, the 7 certified 1103 P clones carry the numbers 112, 113, 168, 202, 767, 768 and 1050. Among those, the clones multiplied are:

- clone No. 113: 26 ha 90 ares of mother vines producing certified material, in 2017,

- clone No. 168: 51 ares of mother vines producing certified material, in 2017,
- clone No. 767: 1 ha 28 ares of mother vines producing certified material, in 2017,
- clone No. 768: 52 ha 43 ares of mother vines producing certified material, in 2017,
- clone No. 1050: 2 ha 54 ares of mother vines producing certified material, in 2017.

Datas are extracted from: Les chiffres de la pépinière viticole, 2017, Datas and assessment of FranceAgriMer, may 2018.



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