

Table 1. Parentage and nematode resistance of GRN rootstock releases. 1. Root-knot R3 is a standard strain of *Meloidogyne incognita* that feeds on *vinifera* and is resisted by Harmony and Freedom, and many other rootstocks. 2. Harm A is a root-knot strain (*M. arenaria*) that feeds on Harmony and Freedom. 3. HarmC is a root-knot strain (*M. incognita*) capable of feeding on Harmony and Freedom. 4. Dagger nematode (*Xiphinema index*). Combined testing used HarmA, HarmC and X. index in a combined inoculation. These plants were also tested at high soil temperatures (30C), which “break” the root-knot nematode resistance in Harmony and Freedom with the combined inoculum (2 through 4). They were then screened for lesion nematode, citrus nematode, ring nematode and phylloxera resistance. R = resistant, S = susceptible, MS = moderately susceptible; MR = moderately resistant

Selection	(1) Root-knot R3	(2) HarmA	(3) HarmC	(4) X. index	(2 – 4) Combined	High Temp	Lesio n	Citrus	Ring	Phylloxer a	Characteristics
8909-05 GRN-1 <i>V. rupestris</i> x <i>M. rotundifolia</i>	R	R	R	R	R	R	R	R	R	R	Can be hard to propagate. Studies underway to determine fanleaf tolerance. Moderate vigor. Sterile flowers.
9363-16 GRN-2 L514-30 (<i>V. rufotomentosa</i> x (Dog Ridge x Riparia Gloire)) x <i>V. riparia</i> 1438	R	R	R	R	R	R	R	MS	S	R	Good mothervine with long canes and internodes, and limited lateral production. Shallow rooting depth. Mature leaves are lobed. Male flowers.
9365-43 GRN-3 L514-10 (<i>V. rufotomentosa</i> x (Dog Ridge x Riparia Gloire)) x <i>V. riparia</i> 1438	R	R	R	R	R	R	R	R	S	R	Mothervine has moderate vigor, but long canes with good internode length, moderate number of laterals. Moderately deep rooting depth. Mature leaves resemble <i>V. champinii</i> . Female flowers.
9365-85 GRN-4 L514-10 (<i>V. rufotomentosa</i> x (Dog Ridge x Riparia Gloire)) x <i>V. riparia</i> 1438	R	R	R	R	R	R	R	R	MR	R	Good mothervine with long canes and internodes and few laterals. Moderately deep rooting profile. Mature leaves resemble <i>V. riparia</i> . Male flowers.
9407-14 GRN-5 (Ramsey x Riparia Gloire) x <i>V. champinii</i> c9021	R	R	R	R	R	R	R	R	R	MR	Weak mothervine, but long internodes, good canes. Deep rooting profile. Mature leaves resemble glossy <i>V. champinii/ monticola</i> . Male flowers.