

FIG. 1: Cribado de líneas de *Glycine* de tipo silvestre para detectar la resistencia a la roya

	n.º de línea	especie/gen	FL-Q12	VBRC	NC -07	NC con ext	FL-Q09	LABR-13	FL-Q11	UF-Q15	UF-15/6	GLC-15/C	GLC-15/G	UBL-GH	UF-GH	campoUF	BR-S	BR-C
Líneas de <i>Glycine</i> de tipo silvestre seleccionadas	PI 440935	Canescens	RBO/1-N	RBO/1-NSP	RBO/1-NSP	RBO/1-NSP x	RBO/1-NSP	RBO/1-NSP	RBO/1-NSP	RBO/1-NSP	RBO/1-NSP	3	RB1/2-NS	RB1	NS	NS	WL	
	PI 446934	Canescens	RBO/1-N	RB1-NSP	RB1/2-NSP	RB1/2-NSP x	RB1-NSP	RB1/2-NSP	RBO/1-NSP	RBO/1-NSP	RB1/2-NSP	0	RB1/2-NS	RB1		NS	RB1 - 5	WL
	PI 483193	Canescens	RBO/1-N	RBO/1-NSP	RBO/1-NSP	RBO/1-NSP	RB1-NSP	TAN-1-SPX2	RB1-NSP	RB4-LITTLE SP	RB1-NSP			RB1	NS	SP		
	PI 505154*	Canescens	RB1-NSP	TAN-SP	TAN-2-SP	TAN-2-SP	TAN-4-SP	TAN-1-SP	TAN-1-SP	RB1-NSP				RB1		NS	RB1 - 1	RB1 - 1%
	PI 595799	Canescens	RB1-NSP	RB2-NSP	RB1-NSP	RB1-NSP	RB1-NSP	RB1-NSP	RBO/1-NSP	RBO/1-NSP	RB1/2-NSP	2	RB1-NSP	RB1	SP	NS	RB1 - 7	WL
	PI 339656	Clandestina	RBO/1-N	RB1-NSP	RBO/1-NSP	RB4-SP	TAN-1-SP	RB1-NSPX2	RB1-NSP	RB1-NSP	RB1-NSP	2		RB1	NS	NS	WL	
	PI 446943*	Clandestina	TAN-SP	TAN-SP	TAN-SP	TAN-SPx5	TAN-3-SP	TAN-5-SP	TAN-3-SP	TAN-SP		5		TAN		SP		
	PI 441001	Tomentella	RBO/1-N	RBO/1-NSP	RBO/1-NSP	RBO/1-NSP x	RBO/1-NSP	RBO/1-NSP	RBO/1-NSP	RBO/1-NSP	RB1-NSP	4	RB1-NSP	RB1	NS	SP	RB1 - 5	WL
	PI 441007*	Tomentella	RB1-NSP	RB4-SP	RB4-SP	RB4-SPx4	TAN-1-SP	RB4-SP	RB4-SP	RB4-SP	RB4-SP	5	RB4/TAN	RB1		SP		
	PI 441008	Tomentella	RBO/1-N	RB1-NSP	RB1-NSP	RB1-NSP x3	RB1-NSP	RB1-NSP	RBO/1-NSP	RBO/1-NSP	RB3-PUSTUL	0	RB1-NSP	RB1	NS	NS	RB1 - 7	RB1 - 2%
	PI 441013*	Tomentella	RB4-SP	TAN-SP	TAN-SP	TAN-SPx2	TAN-5-SP	TAN-2-SP	TAN-2-SP	RB4-SP				RB1	SP	NS	RB1 - 3	RB1 - 2%
	PI 446958	Tomentella	RB1-NSP	RB1/2-NSP	RB2-NSP	RB1/2-NSP x	RB1/2-NSP	RB1/2-NSP	RB1-NSP	RBO/1-NSP	RB2-NSP	2	RB1-NSP	RB1/2		SP	RB1 - 5	RB1 - 25%
	PI 509501	Tomentella	RBO/1-N	RBO/1-NSP	RBO/1-NSP	RBO/1-NSP x	RBO/1-NSP	RBO/1-NSP	RBO/1-NSP	RB1-NSP	RBO/1-NSP	3	RBO/1-NS	RB1	NS	NS	RB1 - 2	RB1 - 2%
	PI 583970	Tomentella	RBO/1-N	RB1-NSP	RB1-NSP	RB1-NSP x8	RBO/1-NSP	RBO/1-NSP	RBO/1-NSP	RBO/1-NSP	RBO/1-NSP	0	RB1-NSP	RB1	NS	NS	WL	
	PI 483224	Tomentella	RBO/1-N	RBO/1-NSP x	RBO/1-NSP x2		RBO/1-NSP x2	RBO/1-NSP x	RB1-NSP x2	RBO/1-NSP x	RB1-NSP	4	RB1-NSP	RB1/2				
	PI 441008	Tomentella	RBO/1-N	RB1-NSP x2	RB1-NSP x2		RBO/1-NSP x2	RB1-NSP x2	RBO/1-NSP x	RB1-NSP x2	RB3-PUSTUL	0	RB1-NSP					
	PI 599401	Argyrea	TAN-SP	TAN-SP	TAN-SP	TAN-SP x3	TAN-3-SP	TAN-3-SP	TAN-3-SP	TAN-3-SP	TAN-1-SP	0	RB1/2-NS	RB3			RB1 - 7	WL
	PI 599400	Argyrea	RB1-NSP	RB1-NSP	RB1/2-NSP	RB1/2-NSP x	RB1/2-NSP	TAN-1-SP	RB1-NSP	RBO/1-NSP	RBO/1-NSP	1		RB1				
	PI 505151	Argyrea	RB1-NSP	RB1/2-NSP	RB1-NSP	RB1-NSP x4	RB1-NSP	RB1-NSP	RB1-NSP	RB1-NSP	RB1/2-NSP	1		RB1	NS	NS		RB1 - 2%
Líneas de soja con genes Rpp	PI 200487	Rpp5 de soja	RB4-SP	RB4-SP LITT	RB2/3-NSP	RB3-SP LITTLE	TAN-1-SP	TAN-1-SP	TAN-2-SP	RB4-SP LITTL	RB4-SP		RBO/1-NS	RBO/1-NSP				
	PI 200492	Rpp1 de soja	TAN-5-SP	RB1/2-NSP	RB1/2-NSP	RBO/1-NSP	TAN-2-SP	TAN-4-SP	TAN-5-SP	TAN-2-SP	TAN-2-SP		RBO/1-NS	RBO/1-NSP				
	PI 200526	Rpp5 de soja	TAN-5-SP	TAN-5-SP	TAN-4-SP	TAN-5-SP	TAN-5-SP	TAN-5-SP	TAN-5-SP	TAN-5-SP	TAN-2-SP		TAN-5-SP	TAN-3-SP				
	PI 230970	Rpp2 de soja	RB4/TAN	RB4-SP LITT	RB4-SP	RB4/TAN-1-SP	TAN-3-SP	TAN-1-SP	TAN-2-SP	RB4-SP	RB4/TAN-1-SP		RBO/1-NS	TAN-2-SP				
	PI 230971	Rpp2 de soja	TAN-1-SP	RB4-SP LITT	RB4-SP LITT	TAN-2-SP	TAN-1-SP	TAN-3-SP	TAN-4-SP	RB4-SP	TAN-2-SP							
	PI 372415 A	Hikmk	TAN-5-SP	TAN-5-SP	TAN-4-SP	TAN-5-SP	TAN-3-SP	TAN-3-SP	TAN-4-SP	TAN-3-SP								
	PI 417089 B	RppX de soja	TAN-4-SP	RB4-SP LITT	RB1/2-NSP	RB1/2-NSP	TAN-1-SP	TAN-1-SP	TAN-3-SP		RBO/1-NSP	RBO/1-NS	RBO/1-NSP					
	PI 417115	Rpp5 de soja	RB4/TAN	TAN-4-SP	TAN-5-SP	TAN-4-SP	TAN-4-SP	RB4-SP LITT	RB4/TAN-1-SP	TAN-3-SP	TAN-1-SP	RB1/2-NS	TAN-1-SP					
	PI 459025 A	Rpp4 de soja	TAN-5-SP	TAN-1-SP	TAN-4-SP	TAN-1-SP	TAN-4-SP	TAN-5-SP	TAN-4-SP	TAN-5-SP	TAN-2-SP		TAN-1-SP	TAN-4-SP				
	PI 462312	Rpp3 de soja	TAN-5-SP	RB4-SP; RB	RB2/3-NSP	RB4-SP LITTL	RB4-SP LITTL	RB4-SP, MIX	TAN-4-SP; RB	RB4-SP LITTL	TAN-1-SP	RBO/1-NS	RB1/2-NSP					
	PI 471904	Rpp5 de soja inc	RB4-SP	RB4-SP LITT	RB4-SP	RB1-NSP	RB4-SP LITTL	RB4-SP	RB4/TAN-1-SP	RB4-SP LITTL	TAN-3-SP	RBO/1-NS	TAN-1-SP					
	PI 506764	Rpp de soja?/so	RB4-SP	RB4/TAN-1	RB4-SP LITT	RB2/3-NSP	TAN-1-SP	RB4-SP LITT	TAN-4-SP	RB4-SP	RB4-SP		TAN-3-SP	TAN-3-SP				
	PI 567099	Rpp3 de soja	RB4-SP	TAN-1-SP	RB4-SP	TAN-1-SP	TAN-3-SP	TAN-1-SP	RB4/TAN-1-SP	TAN-3-SP								
	PI 567102 B	Rpp6 de soja	RB4-SP	RB4-SP	RB2/3-NSP	TAN-4-SP	RB3-SP LITTL	RB4-SP	TAN-1-SP	RB3-SP LITTL	RBO/1-NSP	RBO/1-NS	RBO/1-NSP					
	PI 594538	Rpp1b de soja	RB4-SP	TAN-4-SP	TAN-5-SP	TAN-5-SP	TAN-3-SP	TAN-3-SP	TAN-4-SP	TAN-5-SP	RB4-SP LITTL							
	PI 606440 A	Rpp5 de soja	TAN-5-SP	TAN-1-SP	TAN-1-SP	RB4-SP LITTL	TAN-3-SP	TAN-5-SP	TAN-1-SP	TAN-2-SP	RB4/TAN-1-SP	TAN-3-SP	TAN-3-SP					

Códigos de colores

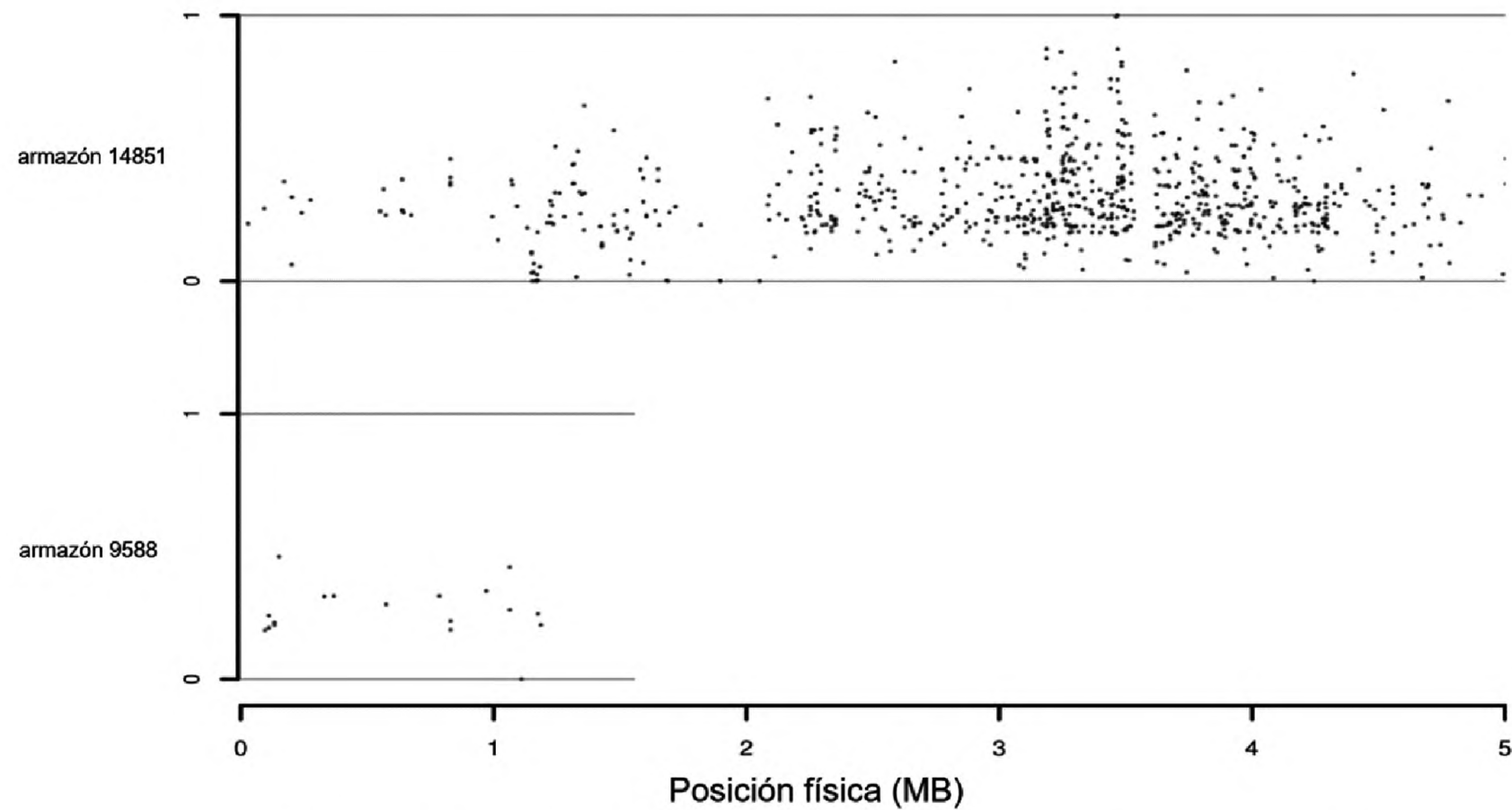
Resistencia

Susceptible

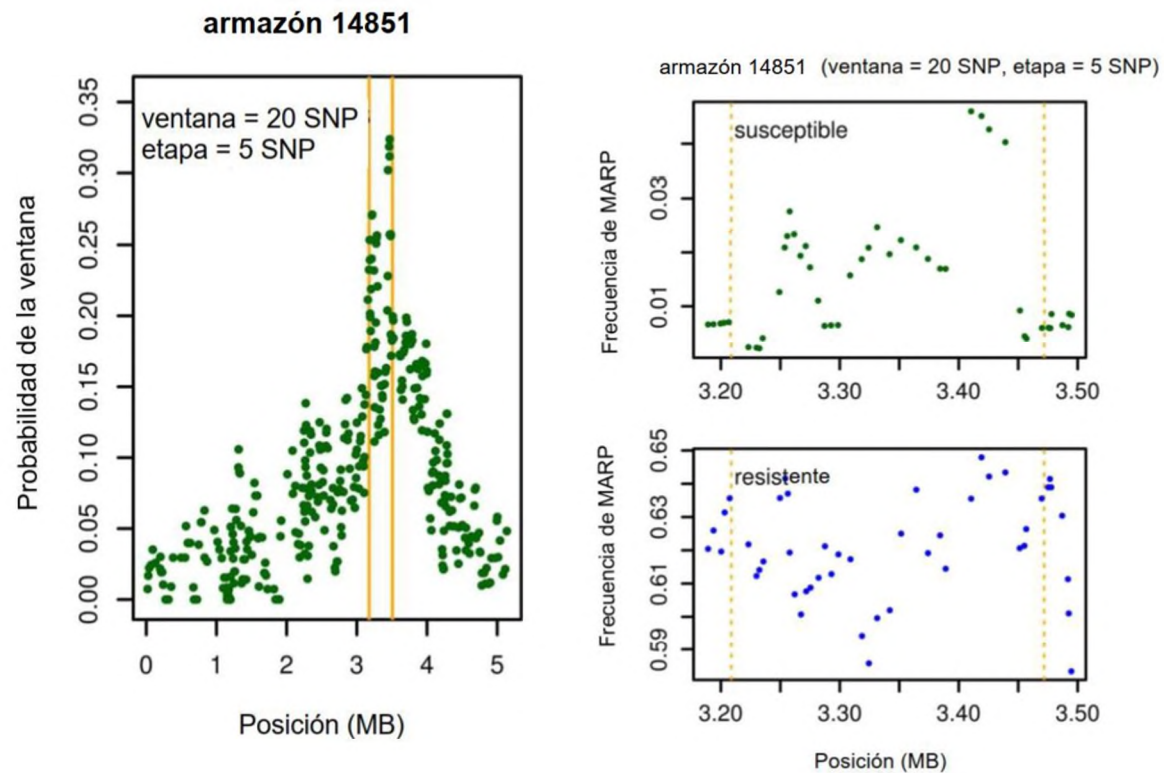
RB0/1-NSP
RB1-NSPX2
RB4-SP LITTLE
RB4-SP
RB4/TAN-1-SP
TAN-5-SP

FIG. 2: Escala de calificación de la roya

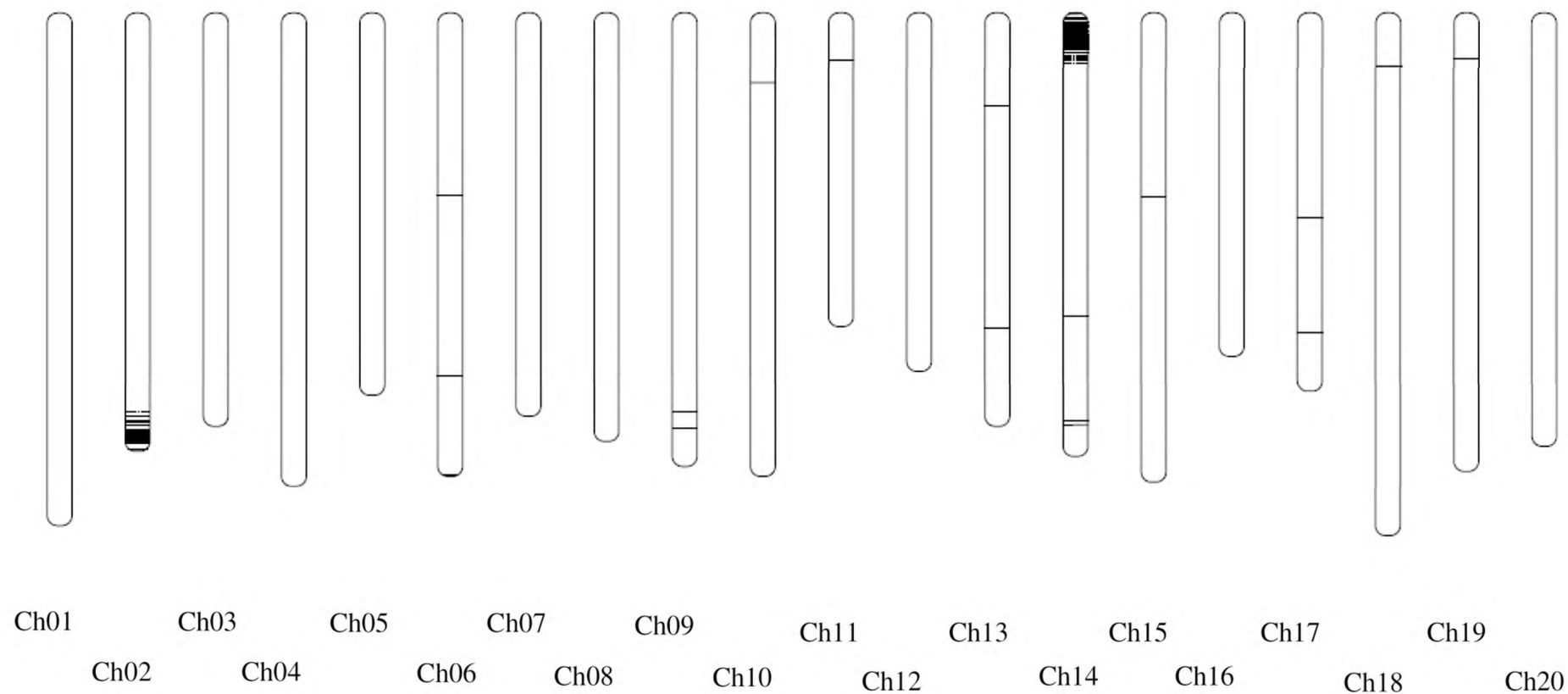
RB0-NSP	Ninguna reacción a la infección o motas/lesiones sumamente pequeñas
RB1-2-NSP	Solo motas necróticas o cloróticas, sin esporulación
	Solo motas necróticas o cloróticas grandes o densas, sin esporulación
RB3-NSP	Uredia diminuta, grandes zonas necróticas o cloróticas, pocas esporas
RB4-SP	Pequeña uredia con algunos tejidos necróticos o cloróticos asociados
TAN1-5-SP	Gran uredia profusamente esporulante, poca/ninguna necrosis o clorosis, 1-5 es el nivel de esporulaciones, densidad y gravedad

Fig. 3: Representación de varios SNP de *Glycine clandestina* PI339656 asociados con la resistencia a la ASR

SNP iniciales = 4,610,234, SNP informativos = 10,915, SNP totales sobre cóntigos superiores = 2,165

Fig. 4: Descubrimiento del intervalo cartografiado para el almacén 14851 (Cromosoma 14 del intervalo sugerido: 3.18-3.15 Mb)

HOJA DE REEMPLAZO (REGLA 26)

FIG. 5: Cartografiado cromosómico de PI 339656 para SNP asociados con la resistencia a la ASR**SNP enlazados significativamente en genoma privado cartografiado en genoma público (Gmax_275_v2.0) [N = 552 marcadores]**

**[La línea discontinua muestra SNP privados del armazón 9588 cartografiados en una ubicación única;
la línea continua muestra SNP privados del armazón 14852 cartografiados en una ubicación única]**