

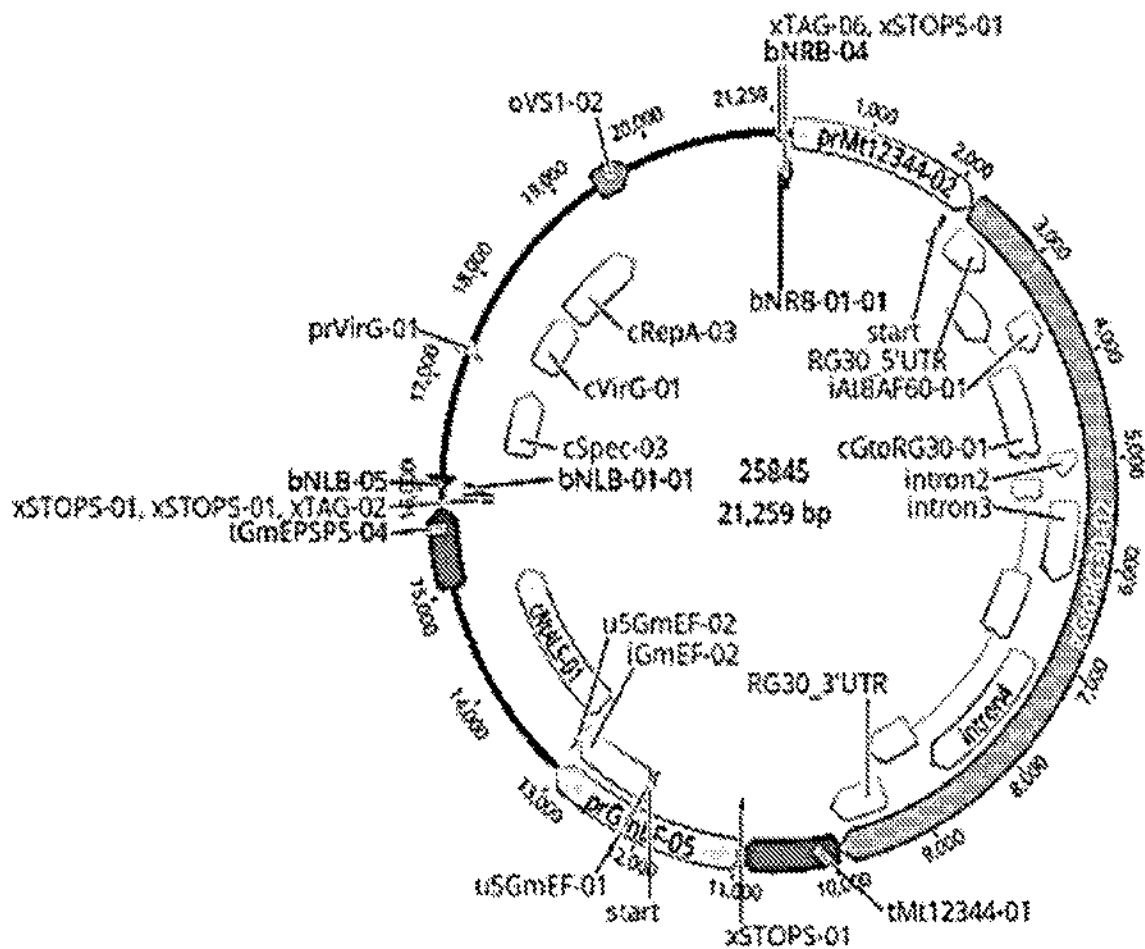


FIGURE 1

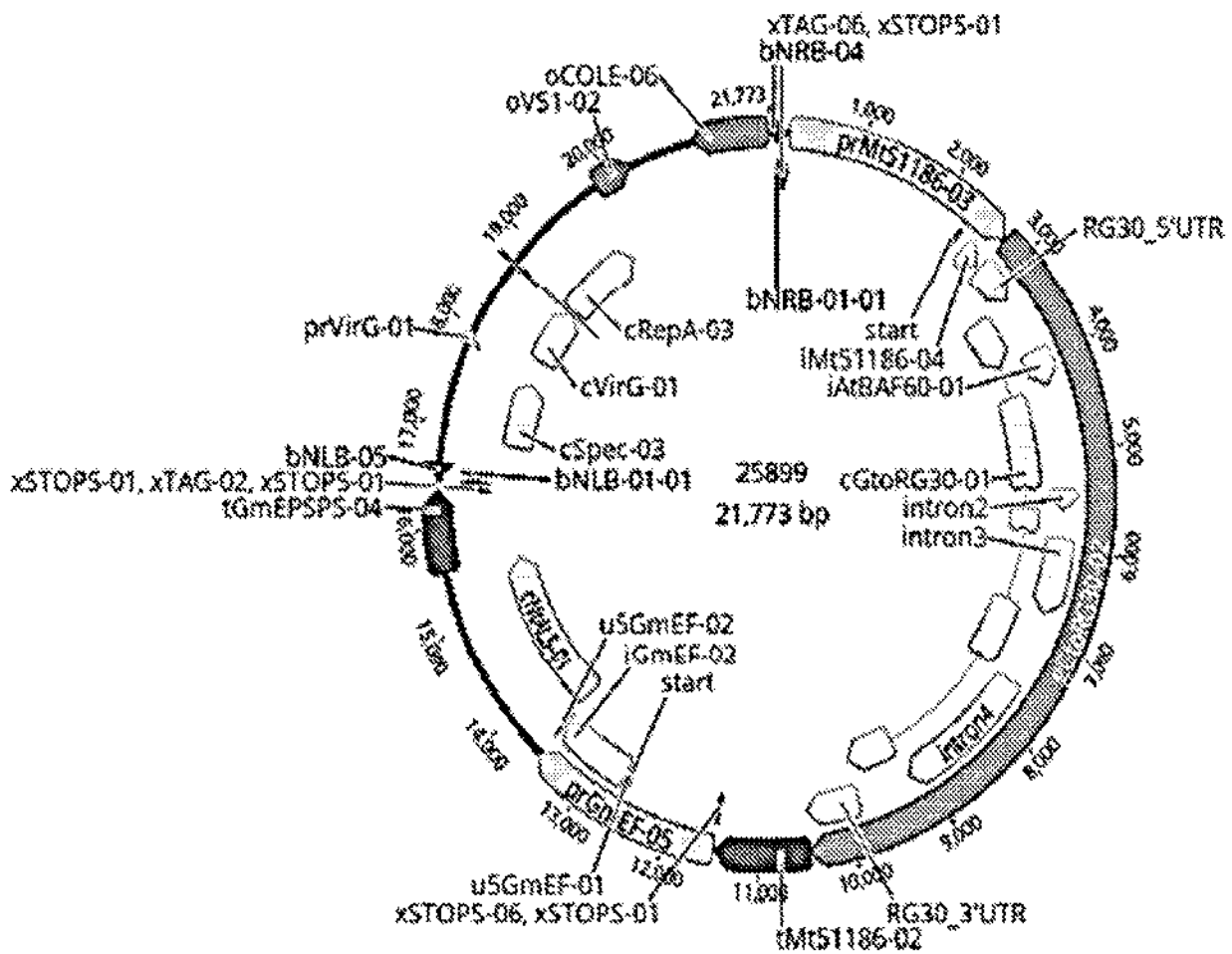


FIGURE 2

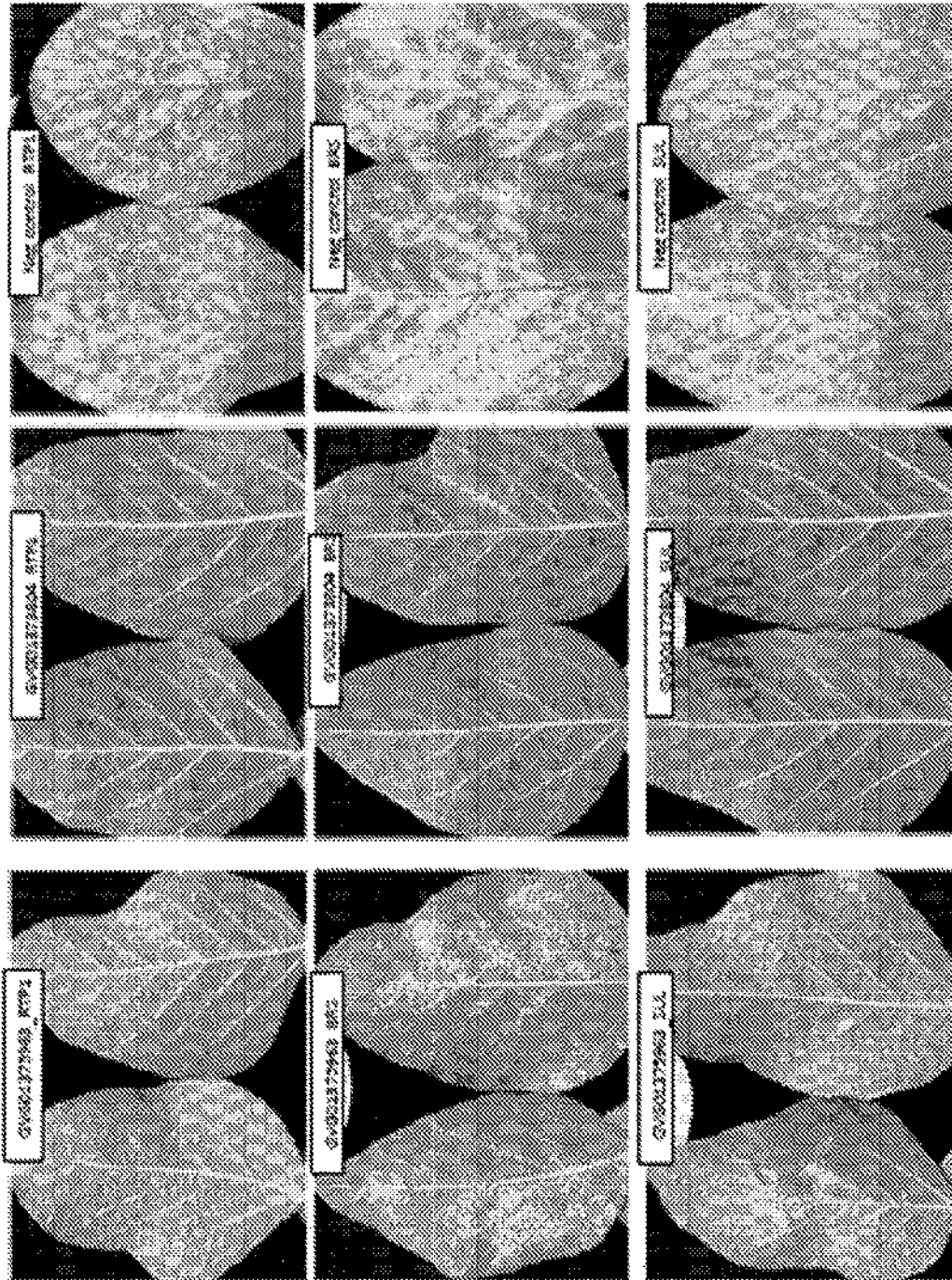


FIGURE 3

	Construct		Copy numbers	Soy Data Rating									
Events	25845		SM-row 5M	TG raw	TG	RTP1	RTP1	BRS	BRS	SUL	SUL	SUL	SUL
GVG013 73963	25845 cTNL_Chr3b	pMt12344	2.67 > 2	2.5 > 2		RB1/2- NSP	RB1/2- NSP	RB2-SPL	RB2-NSP	RB1/2- NSP	RB2-NSP	RB2-NSP	RB2-NSP
GVG013 73964	25899 cTNL_Chr3b	pMt51186	0.75	1	0.92	1 RB1-SPL	RB1-SPL	RB1/2- NSP	RB1/2- NSP	RB1-NSP	RB2-NSP	RB2-NSP	RB2-NSP
Net													
control	Soybean		0	0	0	0	0	Tan3-sp	Tan3-sp	Tan3-sp	Tan3-sp	Tan3-sp	Tan3-sp

FIGURE 4

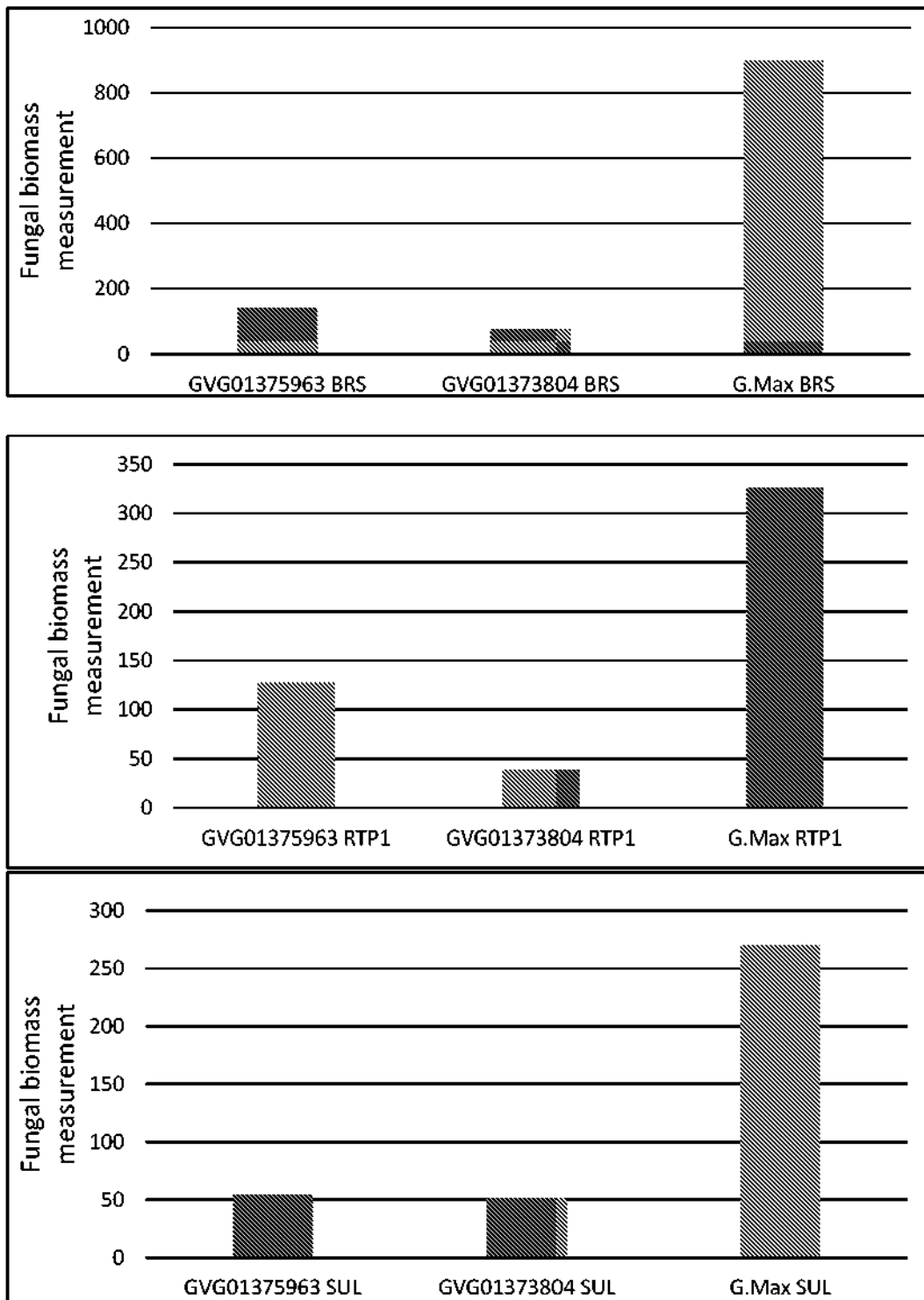


Figure 5. Relative expression (y-axis) of soybean rust β -tubulin gene on two events from binary vector 25845 and 25899 at 14 days post inoculation with 3 rusts- SUL, BRS and RTP1. Level of resistance was measured molecularly with fungal β -tubulin via qRT-PCR on the event, GVG01375963, GVG013773804 and control. The quantitative measurement is consistent with the phenotypic observations that the event showed a high level of resistance.

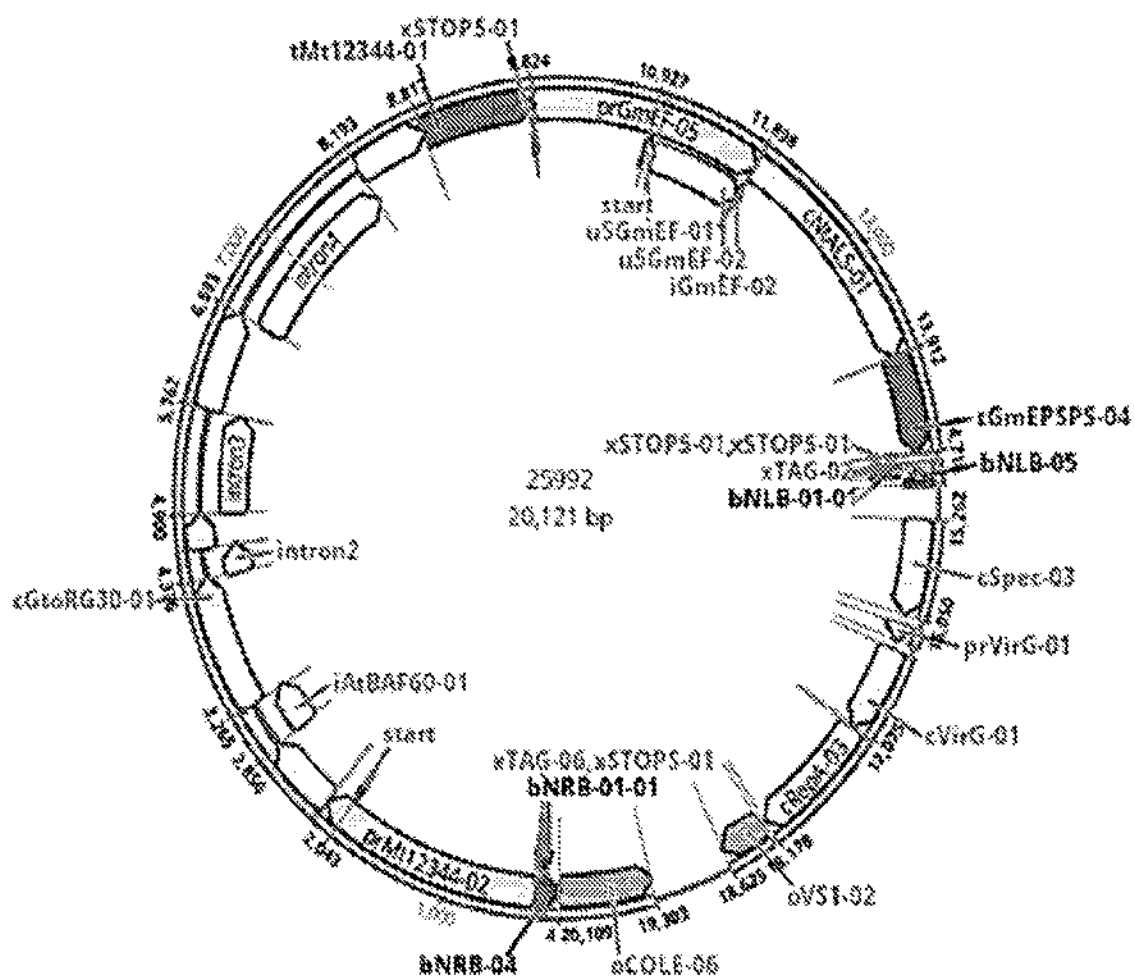


FIGURE 6

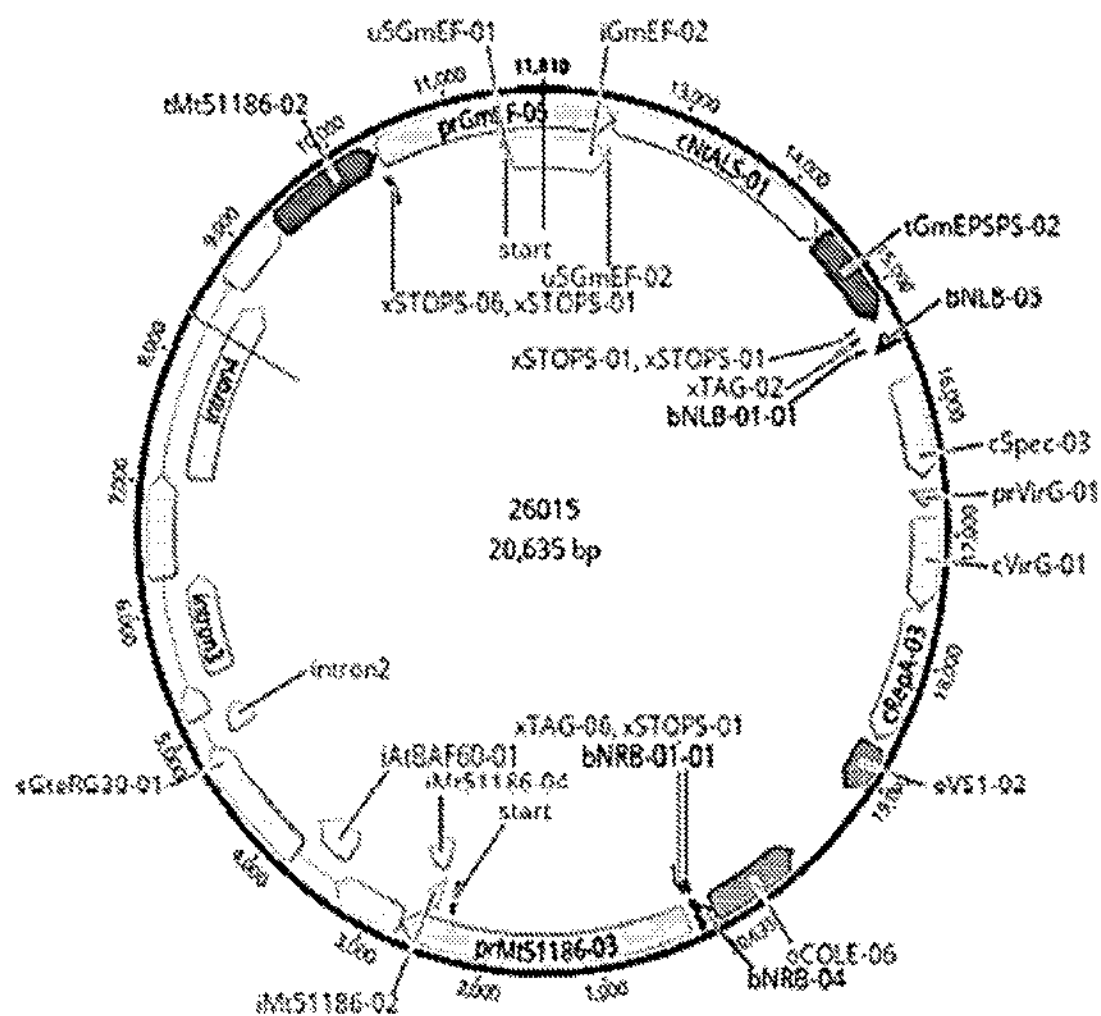


FIGURE 7

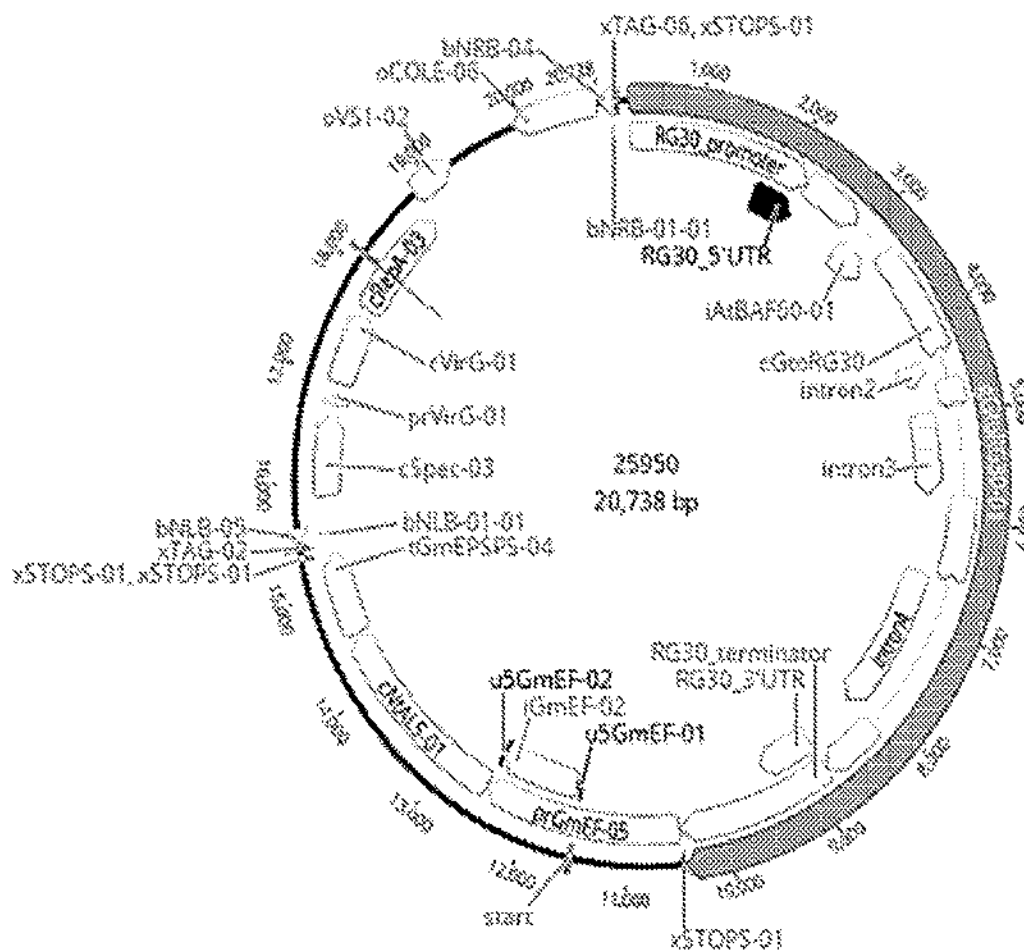


FIGURE 8

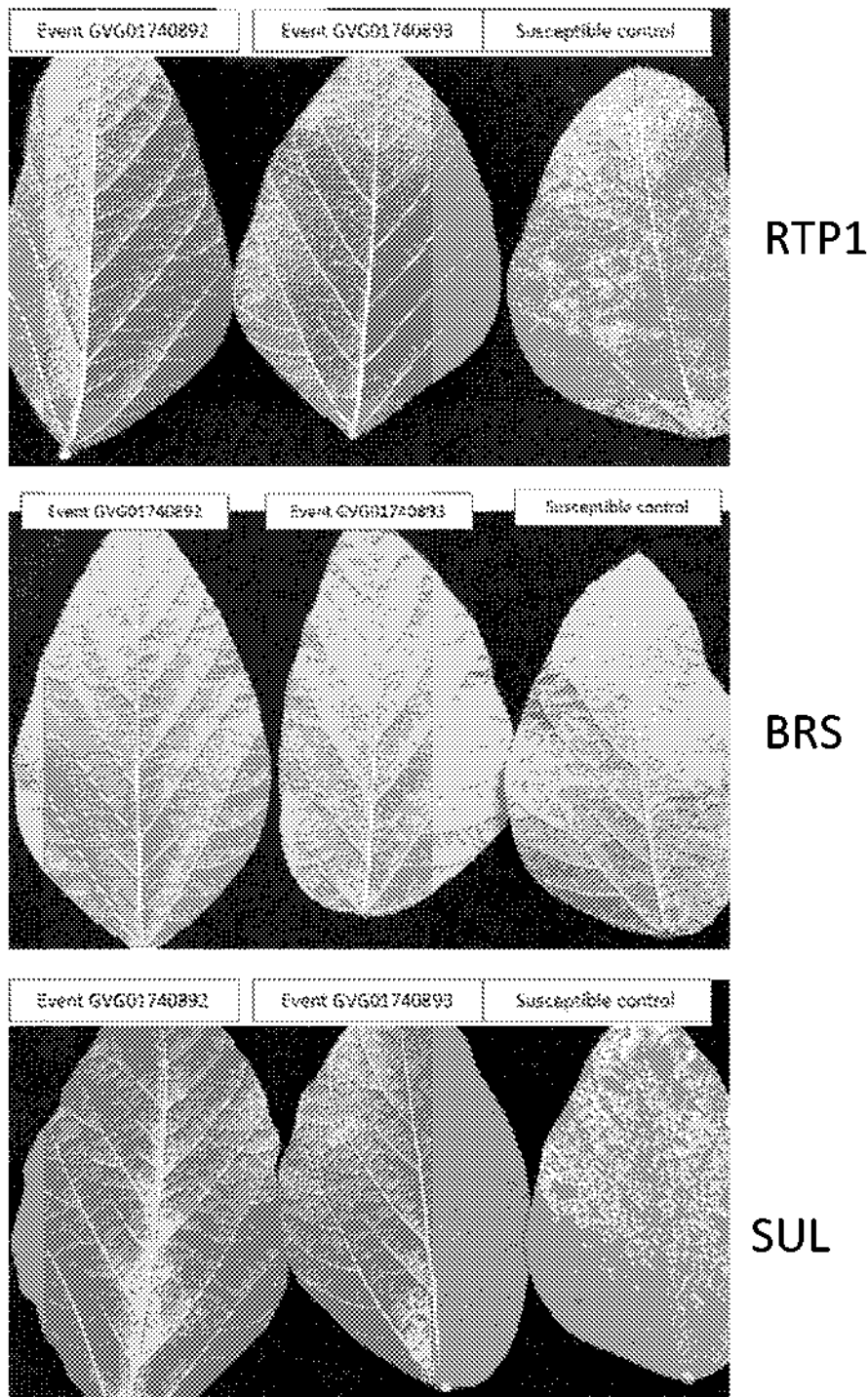
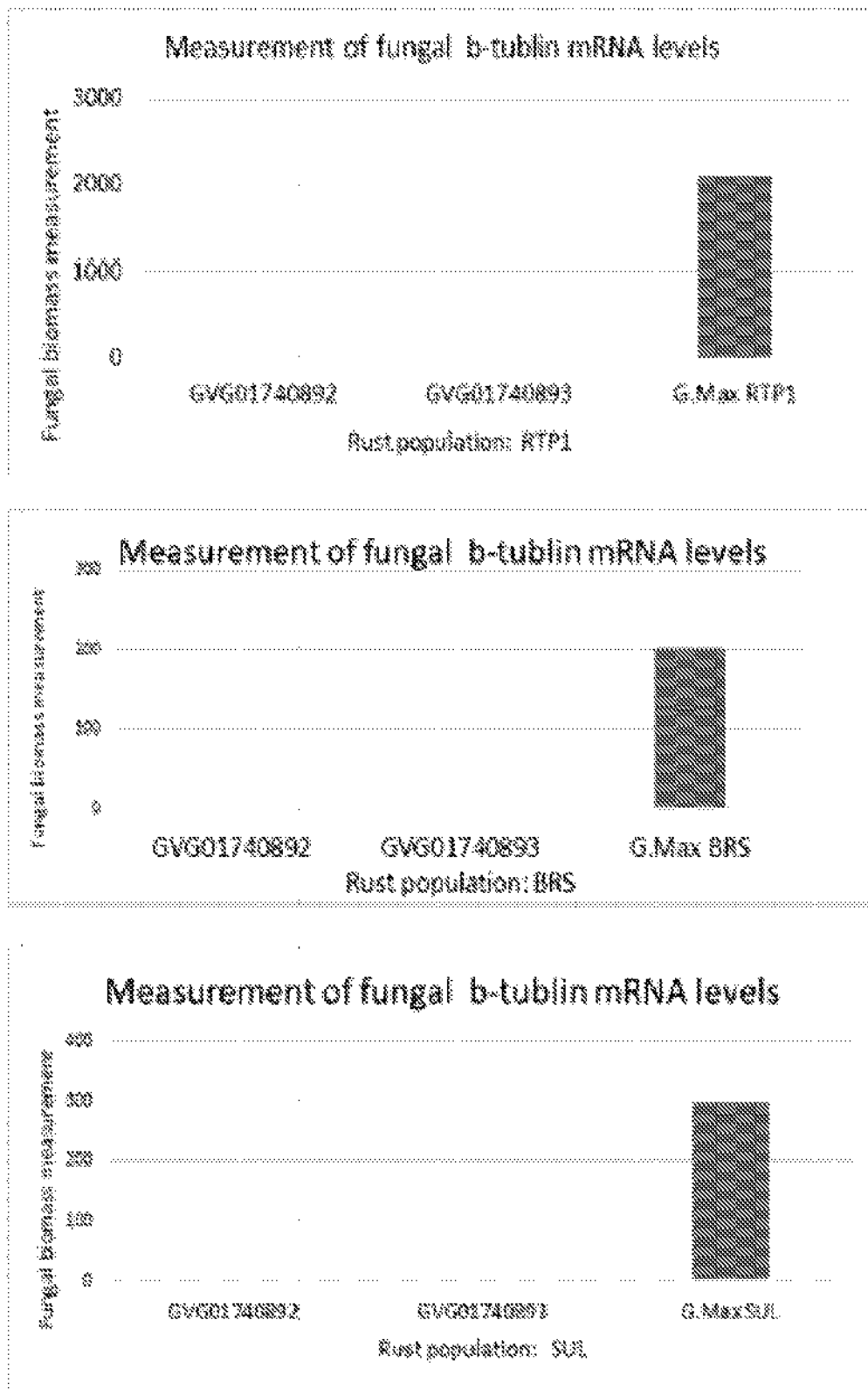
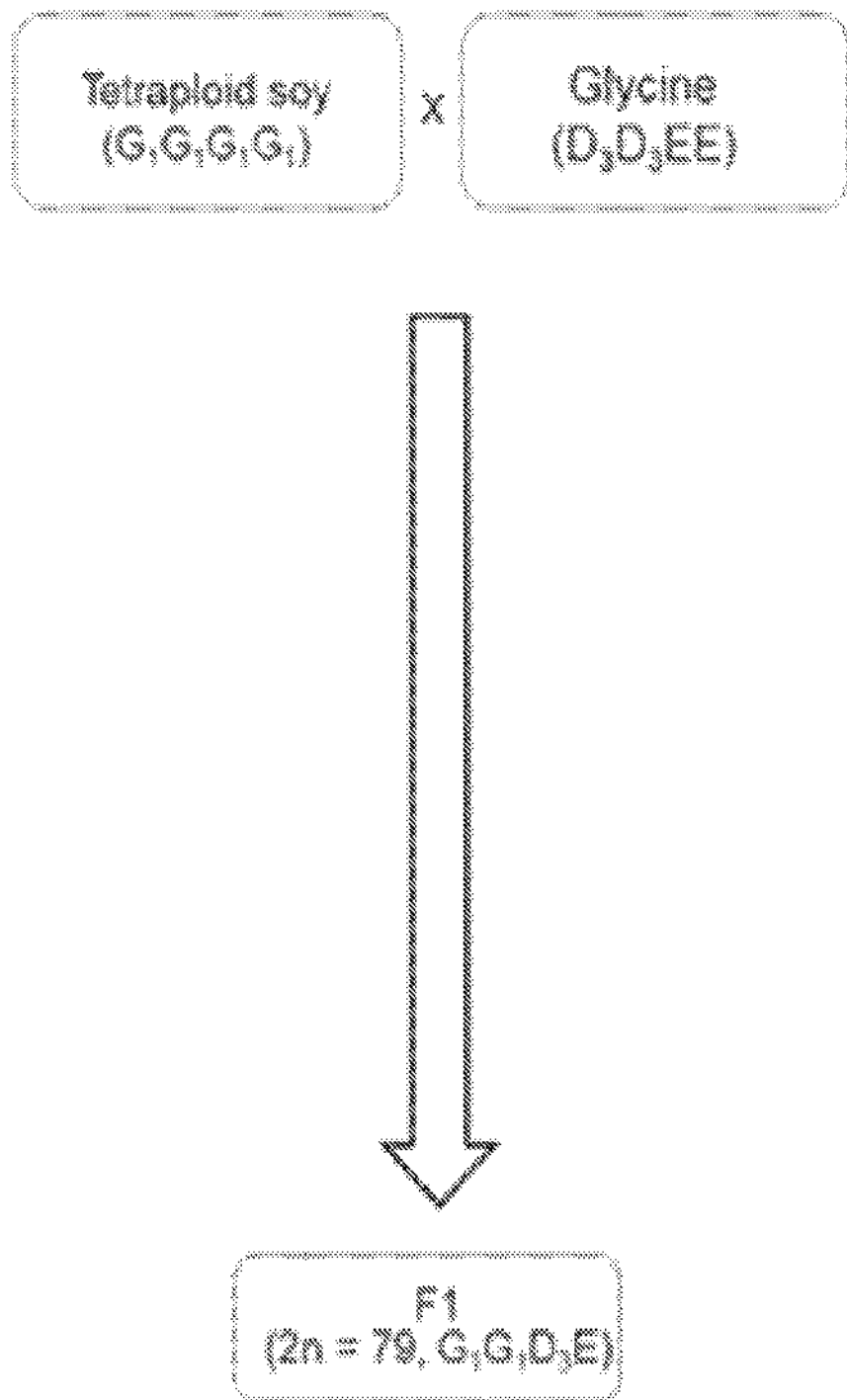


Figure 9. Photographs of rust bioassay experiments conducted on leaves collected from primary soybean events generated from binary vector 25950. Leaves from the T0 events (GVG01740892 and GVG01740893) show reddish brown lesions against all three rust populations tested (RTP1, BRS and SUL) while leaves from the control show tan reaction and heavy sporulation.

**FIGURE 10**

**FIGURE 11**