Suppl. Figure 8: Predicted amino acid consequences of the CRISPR Cas9 mutations in the *TaRPG1-D* homoeologue of all of the sterile plants produced.

		20		40		60		80		100	
	MVSADAARNV	VGIIGNVISE	GLFLSPTPVF	WRIIKAKDVE	EFKPDPYLAT		GLPIVHPNSI	LVVTINGIGL	VIEGSYLIIF	FLYSTNNKRL	100
RPG 9 allele 1 RPG 9 allele 2	MVSADAARNV MVSADAARNV	VGIIGNVISE	GLFLSP								26
RPG 9 allele 2 RPG 12 allele 1.2	MVSADAARNV	VGIIGNVISF	GLFLSPTPVF	WRIIKA							36
	MVSADAARNV	VGIIGNVISF	GLFLSPTPVF	WRIIKAK - VE	EFKPDPYLAT	LLNCMLWVFY	GLPIVHPNSI	LVVTINGIGL	VIEGSYLIIF	FLYSTNNKRL	99
	MVSADAARNV	VGIIGNVISF	GLFLSPTPVF	WRIIKAK							37
	MMSADAARNM	MGI I GNVI SF	GLELSPTPVE	WRIIKA							36
Consensus 100%	MVSADAARNV	VGIIGNVISF	GLFLSPIPVF	WRIIKAK							
Conservation											
0%		120		140		160		180		200	
RPG Wt D			LLGAHTHEKR	SMINGILCVI	FGTIMYASPL		SVEYMPETLS			YVTIPNGLGA	200
RPG 9 allele 1				F CV I	FGTIMYASPL	TIMGKVIKTK	SVEYMPFTLS	LVNFLNGCCW	LAYALIKFDL	YVTIPNGLGA	
RPG 9 allele 2			<mark>R</mark> GG	VQAGPLPGDA	AQLHALGLLR	PPHRPPQQHP	RRHHQRDRAR	HRGLLPHHLL	PLLHQQQAAE	DDRRARRRGG	
RPG 12 allele 1,2 RPG 13 allele 2				SMINGILCVI	FGTIMYASPL		SVEVMPETES		- TWRSSSRTP	TWRRCSTACS	55 199
RPG 15 allele 1.2										TWRRCSTACS	
RPG 20 allele 2			<mark>R</mark> GG	VQAGPLPGDA	AQLHALGLLR	PPH <mark>R</mark> PP <mark>QQ</mark> HP	RRHHQRDRAR	HRGLLPHHLL	PLLHQQQAAE	DDRRARRRGG	109
Consensus				XCV I	FGTIMYASPL	TIMGKVIKTK	SVEYMPFTLS	LVNFLNGCCW	LAYALIKFDL	YVRRPNGLGA	
Conservation											
0%		220		240							
550 M/ 5		1		1							
RPG Wt D RPG 9 allele 1		GCYYKRTPKE	EKSVELPISN	PAGAGNVSVT PAGAGNVSVT	VDR * 244 VDR * 134						
	VHGGRRARRA	PRCPHPREAL	HDRRHPLRHL	RNHHVCLPAH	HHG * 154						
RPG 12 allele 1,2		PTASSSSPST	G <mark>S</mark> G <mark>SSS</mark> RAPT	SSSSSSTPPT	<mark>T</mark> SG* 99						
RPG 13 allele 2		GCYYKRTPKE	EKSVELPTSN	PAGAGNVSVT	VDR * 243						
RPG 15 allele 1,2 RPG 20 allele 2	VHGGRRARRA	PTASSSSPST PRCPHPREAL	GSGSSSRAPT HDRRHPLRH	RNHHWC PAH	TSG* 100 HHG* 153						
	FFGLMQLILY	PCYYKRTPKE	EKSVELPTSN	PAGAGNVPVT	VDGX						
100%											
Conservation											