

Table 1 Segregation for eight qualitative contrasting traits in F2 generation of in *Pisum sativum*

No.	Contrasting traits	Dominates X Recessive	Observed value		Expected value	$\chi^2$	P at 5%
1	Anthocyanin pigmentation	PP X pp	PP, Pp	pp	3:1	3.22	0.07
			Present	Absent			
2	Flower colour	CC X cc	29	17	3:1	3.22	0.07
			CC, Cc	cc			
3	Pod colour	GG X gg	Purple	Creamy	3:1	1.24	0.26
			29	17			
4	Tendrill type	NN X nn	GG, Gg	gg	3:1	1.41	0.21
			Green	Purple			
5	Leaf type	LL X ll	31	14	3:1	2.64	0.1
			NN, Nn	nn			
6	Seed texture	SS X ss	Normal	Bushy	3:1	0.2	0.64
			37	8			
7	Sensitivity to powdery mildew er-1 gene	RR X rr	LL, Ll	ll	3:1	0.2	0.64
			Leaf present	Leafless			
			SS, Ss	ss	3:1	0.2	0.64
			Rough	Smooth			
			33	13	3:1	0.2	0.64
			RR, Rr	rr			
			Susceptible	Resistant	3:1	0.2	0.64
			33	13			