

LINKAGE RELATIONSHIP OF PISUM GENES st, m, AND hr

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The flowering gene Hr (high response to photoperiod) was shown previously to be located near locus M (marbled testa) on chromosome 3 but the relative position of the Hr locus was not established (1). Three-point data (Table 1) in the coupling phase for hr, m, and st (reduced stipules) indicate a map relationship of st-34-m-7-hr.

1. Murfet, I. C. 1973. Heredity 31:157-164.

Table 1. F2 data from cross 67: (St M Hr) x 210 (st m hr).

Gene pair	XY	Xy	xY	xy	Total	Chi-squared			Recomb. fract.	S.E.
						X	Y	Joint		
St-M	101	27	20	18	166	0.39	0.39	9.96**	33.9	4.7
St-Hr	96	32	23	15	166	0.39	0.97	2.92ns	40.8	5.2
M-Hr	114	7	5	40	166	0.39)	0.97	128.41***	7.1	2.1

** , *** P<0.01 and 0.001, respectively
