

Back crosses of Lgr. I II  
 of (552) M 360 a sn cr-1 (502. III. II) x 376 A pe fl (503. V. II)  
 (C136) (B 123) (from #2001) (Y 8743m) (L) (from #338)

Intercross	Germination No/total	Ratios of Alleles		Recombination		
		fl: +	cr: +	pe-fl	su-cr	A/a - sn
Aug 76 552 III (502. III. II) x (503. V. II) M 360 a x M 376 A	63/100?	27:33	29:34	21 <sup>5</sup> /63	7/67	2/19
Nov 76 EP. 552 IV (552. IS a) x II A (#2489)	34/49	14:17	12:19	10/34	1+2 <sup>?</sup> /34	0/2
Jan 77 El. 552 V (V. I) 430 a x II A + 41/49	41/49	20:21	15:26	12/41	3/41	0/6
March 77 W: (V. 5) a (so/+) x II A + 233/300	233/300	123:110	128:105	98 <sup>2</sup> /233	15/233	10/84 + 9/86 sn su+
616 VII 586 A pe fl x + II A		690 a 538 a	used to isolate mms mutants	~ 16/43		
# 4162 = M 509 A (.16) sn cr-1; pe fl	84/100	36:48	41:43	15/41	6/83	
cross 567 x al in! 552 VII c) 537 a (+) x M 528 A (+) (6.3)	68/100	731 a 732 A pe fl		~ 28/67	7/67	0/5
FGSC # 4163 = M 690 a sn cr-1; pe fl	523/698 ~ 75% Germination rate	250/266 94.0%	251/268 94%	205/522 ~ 39%	41/522 7.8 <sup>54</sup>	21/215 ~ 10% 0.3

Linkage:	sn - cr-1					A/a - su				
	P <sub>1</sub>	P <sub>2</sub>	R <sub>1</sub>	R <sub>2</sub>	Total	Total	P <sub>1</sub>	P <sub>2</sub>	R <sub>1</sub>	R <sub>2</sub>
III	26	34	4	3	67	19	13	4	1	1
IV	11	19	2	1	33	2	2	-	0	-
V	12	26	0	3	41	6	6	-	0	-
VI	114	104	1	14	233	188	83	86	10	9
VII b)	36	41	1+1	4	83	5	5		0	
VII c)	22	38	3	4	67	567 - 140	62	65	5	8
Combined Total	221	262	12	29	522	Totals: 355	166	155	16	18

difficult phenotype on GCP 41/522 → 7.8<sup>54</sup>%

Lgr. II	pe - fl	Total	P <sub>1</sub>	P <sub>2</sub>	R <sub>1</sub>	R <sub>2</sub>
(552)			fl	+	fl	+
III		67	17	~24	16	~10 ± 5
IV		31	9	12	5	5
V		41	13	16	7	5
VI		233	65	~70	58	~40
VII → b		83	26	26	19+1	11 so/+
VII c		67	14	25	16	12
		522	144	173	122	83
					205	→ 39.3%

~ 10% (9.6)