

4. Mutants with altered carotenoid synthesis.

Linkage data has been accumulated on the mutants having an altered carotenoid composition in endosperm (white to pale yellow) and seedling (albino).

	Parental Classes	Recombination Classes			Total	% Recombination	
		Region 1	Region 2	Region 1&2		Region 1	Region 2
vp ₂ - gl ₈	150	67	--	--	217	30.9	--
vp ₂ - A ₂	161	13	--	--	174	7.5	--
ps - gl ₈	69	12	--	--	81	14.8	--
wx - T5-9a - ps	104	5	42	0	151	3.3	27.8
su - T2-4c - w ₃	350	16	4	2	372	4.8	1.6
ts ₁ - v ₄ - w ₃	37	14	17	4	72	25.1	29.2
B - v ₄ - w ₃	57	36	25	6	124	33.9	25.0
su - T1-4a - lw ₁	194	0	51	0	245	0	20.8
wx - T1-9a - lw ₁	14	2	15	0	31	6.5	48.4
Kn - lw ₂	28	0	--	--	28	0	--
wx - T5-9c - lw ₂	44	2	3	1	50	6.0	8.0
gl ₈ - lw ₂	208	0	--	--	208	0	--
wx - T3-9c - cl ₁	373	5	20	0	398	1.3	5.0
A ₁ - cl ₁	125	108	--	--	233	46.4	--
lg ₂ - cl ₁	127	31	--	--	158	19.6	--
ra ₂ - cl ₁	16	3	--	--	19	15.8	--

Our mutant 7748 has been placed on chromosome three. A mutant with pale endosperm and pale green seedling (8549) has proved to be allelic to y₁.

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