

Table S1A Greening in lafl singles, Fisher's Exact Tests

	WT Col		<i>fus3-3</i>		p-value
	Green	White	Green	White	
Early heart	0	179	0	59	1
Mid heart	34	119	0	55	0
Late heart	135	69	0	72	<0.00001
Early torpedo	100	0	8	62	<0.00001
Mid torpedo	100	0	38	27	<0.00001
Late torpedo	100	0	53	0	1

	WT Col		<i>lec2-1</i>		p-value
	Green	White	Green	White	
Early heart	0	179	0	57	1
Mid heart	34	119	10	71	0.079
Late heart	135	69	34	47	0.0003
Early torpedo	100	0	48	15	<0.00001
Mid torpedo	100	0	50	0	1
Late torpedo	100	0	50	0	1

	WT Col		<i>abi3-3</i>		p-value
	Green	White	Green	White	
Early heart	0	179	0	67	1
Mid heart	34	119	0	71	<0.00001
Late heart	135	69	9	72	<0.00001
Early torpedo	100	0	30	25	<0.00001
Mid torpedo	100	0	62	7	0.0016
Late torpedo	100	0	68	0	1

	WT Ws		<i>lec1-1</i>		p-value
	Green	White	Green	White	
Early heart	0	93	0	82	1
Mid heart	11	83	0	66	0.0029
Late heart	62	50	0	88	<0.00001
Early torpedo	61	15	15	56	<0.00001
Mid torpedo	79	0	56	37	<0.00001
Late torpedo	73	0	60	7	0.0048

Table S1B Greening in lafl doubles (compared to Col), Fisher's Exact Test

	WT Col		<i>fus3-3 lec1-2</i>		p-value
	Green	White	Green	White	
Early heart	0	179	0	134	1
Mid heart	34	119	0	145	<0.00001
Late heart	135	69	10	90	<0.00001
Early torpedo	100	0	23	75	<0.00001
Mid torpedo	100	0	122	42	<0.00001
Late torpedo	100	0	109	7	0.016

	WT Col		<i>fus3-3 lec2-1</i>		p-value
	Green	White	Green	White	
Early heart	0	179	0	102	1
Mid heart	34	119	0	118	<0.00001
Late heart	135	69	8	111	<0.00001
Early torpedo	100	0	26	65	<0.00001
Mid torpedo	100	0	85	51	<0.00001
Late torpedo	100	0	93	6	0.014

	WT Col		<i>abi3-3 lec2-1</i>		p-value
	Green	White	Green	White	
Early heart	0	179	0	107	1
Mid heart	34	119	0	88	<0.00001
Late heart	135	69	7	75	<0.00001
Early torpedo	100	0	28	59	<0.00001
Mid torpedo	100	0	74	30	<0.00001
Late torpedo	100	0	110	0	1

	WT Col		<i>abi3-3 lec1-2</i>		p-value
	Green	White	Green	White	
Early heart	0	179	0	97	1
Mid heart	34	119	0	105	<0.00001
Late heart	135	69	7	67	<0.00001
Early torpedo	100	0	23	65	<0.00001
Mid torpedo	100	0	67	37	<0.00001
Late torpedo	100	0	129	11	0.0031

	WT Col		<i>lec1-2 lec2-1</i>		p-value
	Green	White	Green	White	
Early heart	0	179	0	48	1
Mid heart	34	119	0	70	<0.00001
Late heart	135	69	13	67	<0.00001
Early torpedo	100	0	31	51	<0.00001
Mid torpedo	100	0	68	26	<0.00001
Late torpedo	100	0	88	10	0.0007

Table S1C

Greening in lafl doubles (compared to singles), Fisher's Exact Test

	<i>fus3-3</i>		<i>fus3-3 lec1-2</i>		p-value
	Green	White	Green	White	
Early heart	0	59	0	134	1
Mid heart	0	55	0	145	1
Late heart	0	72	10	90	0.0055
Early torpedo	8	62	23	75	0.068
Mid torpedo	38	27	122	42	0.025
Late torpedo	53	0	109	7	0.1

	<i>lec1-2</i>		<i>fus3-3 lec1-2</i>		p-value
	Green	White	Green	White	
Early heart	0	82	0	134	1
Mid heart	0	66	0	145	1
Late heart	0	88	10	90	0.002
Early torpedo	15	56	23	75	0.85
Mid torpedo	56	37	122	42	0.024
Late torpedo	60	7	109	7	0.39

	<i>fus3-3</i>		<i>fus3-3 lec2-1</i>		p-value
	Green	White	Green	White	
Early heart	0	59	0	102	1
Mid heart	0	55	0	118	1
Late heart	0	72	8	111	0.026
Early torpedo	8	62	26	65	0.011
Mid torpedo	38	27	85	51	0.64
Late torpedo	53	0	93	6	0.09

	<i>lec2-1</i>		<i>fus3-3 lec2-1</i>		p-value
	Green	White	Green	White	
Early heart	0	57	0	102	1
Mid heart	10	71	0	118	<0.00001
Late heart	34	47	8	111	<0.00001
Early torpedo	48	15	26	65	<0.00001
Mid torpedo	50	0	85	51	<0.00001
Late torpedo	50	0	93	6	0.18

	<i>abi3-3</i>		<i>abi3-3 lec2-1</i>		p-value
	Green	White	Green	White	
Early heart	0	67	0	107	1
Mid heart	0	71	0	88	1
Late heart	9	72	7	75	0.61
Early torpedo	30	25	28	59	0.0093
Mid torpedo	62	7	74	30	0.004
Late torpedo	68	0	110	0	1

	<i>lec2-1</i>		<i>abi3-3 lec2-1</i>		p-value
	Green	White	Green	White	
Early heart	0	57	0	107	1
Mid heart	10	71	0	88	0.0005
Late heart	34	47	7	75	<0.00001
Early torpedo	48	15	28	59	<0.00001
Mid torpedo	50	0	74	30	<0.00001
Late torpedo	50	0	110	0	1

	<i>abi3-3</i>		<i>abi3-3 lec1-2</i>		p-value
	Green	White	Green	White	
Early heart	0	67	0	97	1
Mid heart	0	71	0	105	1
Late heart	9	72	7	67	0.8
Early torpedo	30	25	23	65	0.0008
Mid torpedo	62	7	67	37	<0.00001
Late torpedo	68	0	129	11	0.0176

	<i>lec1-2</i>		<i>abi3-3 lec1-2</i>		p-value
	Green	White	Green	White	
Early heart	0	82	0	97	1
Mid heart	0	66	0	105	1
Late heart	0	88	7	67	0.0035
Early torpedo	15	56	23	65	0.575
Mid torpedo	56	37	67	37	0.56
Late torpedo	60	7	129	11	0.6

	<i>lec1-2</i>		<i>lec1-2 lec2-1</i>		p-value
	Green	White	Green	White	
Early heart	0	82	0	48	1
Mid heart	0	66	0	70	1
Late heart	0	88	13	67	0
Early torpedo	15	56	31	51	0.0335
Mid torpedo	56	37	68	26	0.09
Late torpedo	60	7	88	10	1

	<i>lec2-1</i>		<i>lec1-2 lec2-1</i>		p-value
	Green	White	Green	White	
Early heart	0	57	0	48	1
Mid heart	10	71	0	70	0.0018
Late heart	34	47	13	67	0.0005
Early torpedo	48	15	31	51	<0.00001
Mid torpedo	50	0	68	26	<0.00001
Late torpedo	50	0	88	10	0.0165

Table S1D

Greening in lafl triples (compared to doubles), Fisher's Exact Test

	<i>lec1-2 lec2-1</i>		<i>lec1-2 lec2-1 fus3-3</i>		p-value
	Green	White	Green	White	
Early heart	0	48	0	23	1
Mid heart	0	70	0	79	1
Late heart	13	67	7	70	0.2328
Early torpedo	31	51	14	48	0.0691
Mid torpedo	68	26	48	35	0.0569
Late torpedo	88	10	38	7	0.4077
	<i>lec1-2 fus3-3</i>		<i>lec1-2 lec2-1 fus3-3</i>		p-value
	Green	White	Green	White	
Early heart	0	134	0	23	1
Mid heart	0	145	0	79	1
Late heart	10	90	7	70	1
Early torpedo	23	75	14	48	1
Mid torpedo	122	42	48	35	0.0092
Late torpedo	109	7	38	7	0.066
	<i>lec2-1 fus3-3</i>		<i>lec1-2 lec2-1 fus3-3</i>		p-value
	Green	White	Green	White	
Early heart	0	102	0	23	1
Mid heart	0	118	0	79	1
Late heart	8	111	7	70	0.5886
Early torpedo	26	65	14	48	0.4572
Mid torpedo	85	51	48	35	0.5686
Late torpedo	93	6	38	7	0.1121
	<i>lec1-2 lec2-1</i>		<i>lec1-2 lec2-1 abi3-3</i>		p-value
	Green	White	Green	White	
Early heart	0	48	0	77	1
Mid heart	0	70	0	96	1
Late heart	13	67	4	72	0.0384
Early torpedo	31	51	12	57	0.0066
Mid torpedo	68	26	33	35	0.003
Late torpedo	88	10	114	15	0.1121
	<i>lec1-2 abi3-3</i>		<i>lec1-2 lec2-1 abi3-3</i>		p-value
	Green	White	Green	White	
Early heart	0	97	0	77	1
Mid heart	0	105	0	96	1
Late heart	7	67	4	72	0.3645
Early torpedo	23	65	12	57	0.2469
Mid torpedo	67	37	33	35	0.0417
Late torpedo	129	11	114	15	0.3103
	<i>lec2-1 abi3-3</i>		<i>lec1-2 lec2-1 abi3-3</i>		p-value
	Green	White	Green	White	
Early heart	0	107	0	77	1
Mid heart	0	88	0	96	1
Late heart	7	75	4	72	0.5374
Early torpedo	28	59	12	57	0.0428
Mid torpedo	74	30	33	35	0.0037
Late torpedo	110	0	114	15	0.0001

Table S2A**Greening in delayed mutants by stage, Fisher's Exact Test**

	WT		<i>til1-4</i>		p-value
	Green	White	Green	White	
Early heart	0	24	0	17	1
Mid heart	3	47	2	23	1
Late heart	40	57	13	8	0.1
Early/mid torpedo	112	0	15	0	1

	WT		<i>fus12</i>		p-value
	Green	White	Green	White	
Early heart	4	36	3	20	0.7
Mid heart	15	25	4	4	0.7
Late heart	81	7	6	0	1
Early/mid torpedo	50	0	nd	nd	

Greening in delayed mutants by day, Fisher's Exact Test

	WT		<i>til1-4</i>		p-value
	Green	White	Green	White	
5 DAP	24	114	0	36	0.005
6 DAP	135	9	2	41	<0.00001
7 DAP	147	0	29	13	<0.00001

	WT		<i>fus12</i>		p-value
	Green	White	Green	White	
5 DAP	3	102	0	36	0.57
6 DAP	73	23	3	20	<0.00001
7 DAP	76	0	25	8	0

Table S2B *FUS3p:GUS* in delayed mutants by stage, Fisher's Exact Test

	WT		<i>til1-4</i>		p-value
	GUS+	GUS-	GUS+	GUS-	
Mid globular	5	23	0	2	1
Late globular	34	17	17	12	0.48
Early heart	38	6	104	11	0.566
Mid heart	21	0	92	0	1

	WT		<i>fus12</i>		p-value
	GUS+	GUS-	GUS+	GUS-	
Mid globular	2	16	0	5	1
Late globular	61	25	4	1	1
Early heart	179	28	14	6	0.09
Mid heart	107	0	12	0	1

***FUS3p:GUS* in delayed mutants by day, Fisher's Exact Test**

	WT		<i>til1-4</i>		p-value
	GUS+	GUS-	GUS+	GUS-	
4 DAP	111	17	5	35	<0.00001
5 DAP	224	11	34	17	<0.00001
6 DAP	124	0	38	0	1

	WT		<i>fus12</i>		p-value
	GUS+	GUS-	GUS+	GUS-	
4 DAP	148	59	0	12	<0.00001
5 DAP	208	7	17	10	<0.00001
6 DAP	248	0	31	6	<0.00001

Table S2C

***At2S3p:GFP* in delayed mutants by stage, Fisher's Exact Test**

	WT		<i>til1-4</i>		p-value
	GFP+	GFP-	GFP+	GFP-	
Early heart	0	16	0	23	1
Mid heart	4	29	2	3	0.169
Late heart	25	10	20	1	0.0389
Early/mid torpedo	40	0	18	0	1

	WT		<i>fus12</i>		p-value
	GFP+	GFP-	GFP+	GFP-	
Early heart	0	39	0	9	1
Mid heart	4	63	6	8	0.0013
Late heart	14	24	34	2	<0.00001
Early/mid torpedo	35	0	14	0	1

***At2S3p:GFP* in delayed mutants by day, Fisher's Exact Test**

	WT		<i>til1-4</i>		p-value
	GFP+	GFP-	GFP+	GFP-	
4 DAP	0	50	0	12	1
5 DAP	5	45	0	30	0.1511
6 DAP	70	11	0	48	<0.00001
7 DAP	67	0	20	6	0.0003

	WT		<i>fus12</i>		p-value
	GFP+	GFP-	GFP+	GFP-	
4 DAP	2	68	0	11	1
5 DAP	26	49	0	23	0.0003
6 DAP	121	2	6	20	<0.00001
7 DAP	151	0	49	0	1

Table S2D Cellularization in delayed mutants by stage

	WT		<i>til1-4</i>		p-value
	Cellularized	Not cellularized	Cellularized	Not cellularized	
Late globular	0	48	12	18	<0.00001
Early heart	2	86	26	30	<0.00001
Mid heart	33	52	39	0	<0.00001
Late heart	119	1	36	0	1

	WT		<i>fus12</i>		p-value
	Cellularized	Not cellularized	Cellularized	Not cellularized	
Late globular	0	34	0	10	1
Early heart	20	63	6	36	0.248
Mid heart	28	12	13	8	0.574
Late heart	27	1	9	1	0.462

Table S3A Greening in endosperm mutants, Fisher's Exact Test

	WT		<i>mini3-2</i>		p-value
	Green	White	Green	White	
Early heart	0	179	1	143	0.45
Mid heart	34	119	36	90	0.27
Late heart	135	69	197	107	0.78
Early torpedo	100	0	62	0	1

	WT		<i>shb1</i>		p-value
	Green	White	Green	White	
Early heart	0	179	0	110	1
Mid heart	34	119	23	49	0.14
Late heart	135	69	126	53	0.38
Early torpedo	100	0	87	0	1

	WT		<i>shb1-D</i>		p-value
	Green	White	Green	White	
Early heart	0	93	0	87	1
Mid heart	11	83	22	117	0.45
Late heart	62	50	144	83	0.16
Early torpedo	61	15	61	0	0.0001

Table S3B FUS3p:GUS in endosperm mutants, Fisher's Exact Test

	WT		<i>mini3-2</i>		p-value
	GUS+	GUS-	GUS+	GUS-	
Mid globular	0	23	0	22	1
Late globular	5	38	6	22	0.32
Early heart	100	68	60	35	0.6
Mid heart	101	8	82	5	0.78

	WT		<i>shb1</i>		p-value
	GUS+	GUS-	GUS+	GUS-	
Mid globular	0	43	0	43	1
Late globular	6	58	10	62	0.44
Early heart	144	52	137	67	0.19
Mid heart	71	0	74	0	1

	WT		<i>shb1-D</i>		p-value
	GUS+	GUS-	GUS+	GUS-	
Mid globular	2	31	0	32	0.49
Late globular	20	22	12	22	0.35
Early heart	54	24	72	26	0.61
Mid heart	75	0	48	0	1

Table S3C

At2S3p:GFP in endosperm mutants, Fisher's Exact Test

	WT		<i>mini3-2</i>		p-value
	GFP+	GFP-	GFP+	GFP-	
Early heart	14	44	12	60	0.38
Mid heart	20	25	18	32	0.41
Late heart	50	1	36	2	0.57
Early/mid torpedo	54	0	69	1	1

	WT		<i>shb1</i>		p-value
	GFP+	GFP-	GFP+	GFP-	
Early heart	1	39	17	65	0.0063
Mid heart	17	29	24	36	0.84
Late heart	33	7	50	2	0.037
Early/mid torpedo	50	0	48	0	1

	WT		<i>shb1-D</i>		p-value
	GFP+	GFP-	GFP+	GFP-	
Early heart	1	40	4	46	0.37
Mid heart	14	24	16	34	0.66
Late heart	59	11	42	17	0.088
Early/mid torpedo	46	1	48	5	0.21

Table S3D**Sample sizes for mutants that fail to cellularize****Greening**

		<i>fis2-6</i>	<i>fie-12</i>	<i>ede1-1</i>
WT early torp to early bent cot	white	56	83	28
	green	66	60	51
WT bent cot to almost full	white	16	18	25
	green	26	47	26

FUS3p:GUS

		<i>fis2-6</i>	<i>fie-12</i>	<i>ede1-1</i>
WT early torp to early bent cot	Full GUS	49	101	89
	Patchy GUS	23	0	0
	No GUS	25	17	16
WT bent cot to almost full	Full GUS	29	106	45
	Patchy GUS	24	0	0
	No GUS	8	13	9

At2S3p:GFP

		<i>fis2-6</i>	<i>fie-12</i>	<i>ede1-1</i>
WT early torp to early bent cot	GFP+	44	15	42
	GFP-	9	44	3
WT bent cot to almost full	GFP+	46	27	42
	GFP-	8	44	4

Table S4 **sweet11;12;15; Fisher's Exact Tests**

Greening

	WT Col		<i>sweet11;12;15</i>		p-value
	Green	White	Green	White	
Early heart	0	179	0	104	1
Mid heart	34	119	25	195	0.006
Late heart	135	69	89	93	0.0007
Early torpedo	100	0	66	27	<0.00001
Mid torpedo	100	0	86	2	0.22

FUS3p:GUS

	WT		<i>sweet11;12;15</i>		p-value
	GUS+	GUS-	GUS+	GUS-	
Mid globular	2	64	4	26	0.074
Late globular	27	44	25	24	0.191
Early heart	81	35	69	14	0.0446
Mid heart	54	0	34	0	1

At2S3p:GFP

	WT		<i>sweet11;12;15</i>		p-value
	GFP+	GFP-	GFP+	GFP-	
Early heart	6	58	0	35	0.09
Mid heart	29	36	0	44	<0.00001
Late heart	49	13	20	46	<0.00001
Early torpedo	56	0	47	16	0
Mid torpedo	50	0	41	0	1

Cellularization

	WT		<i>sweet11;12;15</i>		p-value
	Cell.	Uncell.	Cell.	Uncell.	
Late globular	0	90	1	51	0.366
Early heart	8	116	13	49	0.0057
Mid heart	45	43	29	69	0.0042
Late heart	78	7	35	3	1