

# Screening Siliques from Tagged Mutants

EMB # \_\_\_\_\_ Line # \_\_\_\_\_

1. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

2. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

3. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

4. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

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5. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

6. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

7. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

8. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

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EMB # \_\_\_\_\_ Line # \_\_\_\_\_

9. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

10. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

11. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

12. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

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EMB # \_\_\_\_\_ Line # \_\_\_\_\_

13. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

14. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

15. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

16. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

**Screening Siliques from Tagged Mutants**

EMB # \_\_\_\_\_ Line # \_\_\_\_\_

17. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

18. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

19. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

20. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

**Screening Siliques from Tagged Mutants**

EMB # \_\_\_\_\_ Line # \_\_\_\_\_

21. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

22. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

23. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

24. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

**Screening Siliques from Tagged Mutants**

EMB # \_\_\_\_\_ Line # \_\_\_\_\_

25. Plant \_\_\_\_\_ Age \_\_\_\_\_ Seeds \_\_\_\_\_ Mutant \_\_\_\_\_ Top Half \_\_\_\_\_ Initials \_\_\_\_\_ Date \_\_\_\_\_

1				5					10					15					20					25					30

Seed	S. Color	S. Length	E. Color	E. Length	E. Class	Note Class	Other Notes
1							
2							
3							
4							

**Summary of Screening Data: (Numbers Rounded to 0.1 Decimal Place)**

Total Seeds: \_\_\_\_\_ Mutant Seeds: \_\_\_\_\_ Mutant Top Half: \_\_\_\_\_

Percent Mutant: \_\_\_\_\_ % Chi-Square: \_\_\_\_\_

Percent Top Half: \_\_\_\_\_ % Chi-Square: \_\_\_\_\_

Avg. Seed Length: \_\_\_\_\_ μm S.E. \_\_\_\_\_ μm

Avg. Embryo Length: \_\_\_\_\_ μm S.E. \_\_\_\_\_ μm

Distribution of Embryo Classes:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	T	O

Distribution of Seed and Embryo Colors: Average Seed: \_\_\_\_\_ Average Embryo: \_\_\_\_\_

S-1	S-2	S-3	S-4	S-5		E-1	E-2	E-3	E-4	E-5

Brief Summary of Embryo Phenotype: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Special Embryo and Seed Features: \_\_\_\_\_

\_\_\_\_\_

Pollen Examined? \_\_\_\_\_ Pollen Defect Found? \_\_\_\_\_ Percent Defective Pollen: \_\_\_\_\_

Nature of Pollen Defect: \_\_\_\_\_

<b>EMB #</b> _____		<b>EMBRYO LENGTH (um)</b>	<b>Total</b>	<b>TOTAL EXAMINED:</b>
<b>Line #</b> _____		25 _____	_____	S. Length: _____
Initials _____		50 _____	_____	E. Length: _____
<b>SEED LENGTH (um)</b>	<b>Total</b>	75 _____	_____	<b>EMBRYO CLASSES:</b>
150 _____		100 _____	_____	A: _____
_____	_____	125 _____	_____	B: _____
200 _____		150 _____	_____	C: _____
_____	_____	175 _____	_____	D: _____
250 _____		200 _____	_____	E: _____
_____	_____	225 _____	_____	F: _____
300 _____		250 _____	_____	G: _____
_____	_____	275 _____	_____	H: _____
350 _____		300 _____	_____	I: _____
_____	_____	325 _____	_____	J: _____
400 _____		350 _____	_____	K: _____
_____	_____	375 _____	_____	L: _____
450 _____		400 _____	_____	M: _____
_____	_____	425 _____	_____	N: _____
500 _____		450 _____	_____	O: _____
_____	_____	475 _____	_____	T: _____
550 _____		500 _____	_____	Other: _____
_____	_____	525 _____	_____	Total: _____
600 _____		550 _____	_____	<b>S/E COLORS:</b>
_____	_____	575 _____	_____	S1 _____ E1 _____
650 _____		600 _____	_____	S2 _____ E2 _____
_____	_____	625 _____	_____	S3 _____ E3 _____
700 _____		650 _____	_____	S4 _____ E4 _____
_____	_____			S5 _____ E5 _____



**EMBRYO CLASSES**

EMB# \_\_\_\_\_ LINE# \_\_\_\_\_ INITIALS: \_\_\_\_\_ DATE: \_\_\_\_\_

A1 \_\_\_\_\_ = \_\_\_\_\_

A2 \_\_\_\_\_ = \_\_\_\_\_

A \_\_\_\_\_ \*

.....  
B1 \_\_\_\_\_ = \_\_\_\_\_

B2 \_\_\_\_\_ = \_\_\_\_\_

B \_\_\_\_\_ \*

.....  
C1 \_\_\_\_\_ = \_\_\_\_\_

C \_\_\_\_\_ \*

.....  
D1 \_\_\_\_\_ = \_\_\_\_\_

D \_\_\_\_\_ \*

.....  
E1 \_\_\_\_\_ = \_\_\_\_\_

E2 \_\_\_\_\_ = \_\_\_\_\_

E3 \_\_\_\_\_ = \_\_\_\_\_

E4 \_\_\_\_\_ = \_\_\_\_\_

E \_\_\_\_\_ \*

.....  
F1 \_\_\_\_\_ = \_\_\_\_\_

F2 \_\_\_\_\_ = \_\_\_\_\_

F \_\_\_\_\_ \*

.....  
G1 \_\_\_\_\_ = \_\_\_\_\_

G2 \_\_\_\_\_ = \_\_\_\_\_

G3 \_\_\_\_\_ = \_\_\_\_\_

G4 \_\_\_\_\_ = \_\_\_\_\_

G \_\_\_\_\_ \*

.....  
H1 \_\_\_\_\_ = \_\_\_\_\_

H2 \_\_\_\_\_ = \_\_\_\_\_

H3 \_\_\_\_\_ = \_\_\_\_\_

H4 \_\_\_\_\_ = \_\_\_\_\_

H5 \_\_\_\_\_ = \_\_\_\_\_

H \_\_\_\_\_ \*

.....  
I1 \_\_\_\_\_ = \_\_\_\_\_

I2 \_\_\_\_\_ = \_\_\_\_\_

I3 \_\_\_\_\_ = \_\_\_\_\_

I4 \_\_\_\_\_ = \_\_\_\_\_

I \_\_\_\_\_ \*

J1 \_\_\_\_\_ = \_\_\_\_\_

J2 \_\_\_\_\_ = \_\_\_\_\_

J3 \_\_\_\_\_ = \_\_\_\_\_

J4 \_\_\_\_\_ = \_\_\_\_\_

J \_\_\_\_\_ \*

.....  
K1 \_\_\_\_\_ = \_\_\_\_\_

K \_\_\_\_\_ \*

.....  
L1 \_\_\_\_\_ = \_\_\_\_\_

L2 \_\_\_\_\_ = \_\_\_\_\_

L3 \_\_\_\_\_ = \_\_\_\_\_

L4 \_\_\_\_\_ = \_\_\_\_\_

L \_\_\_\_\_ \*

.....  
M1 \_\_\_\_\_ = \_\_\_\_\_

M2 \_\_\_\_\_ = \_\_\_\_\_

M3 \_\_\_\_\_ = \_\_\_\_\_

M \_\_\_\_\_ \*

.....  
N1 \_\_\_\_\_ = \_\_\_\_\_

N2 \_\_\_\_\_ = \_\_\_\_\_

N \_\_\_\_\_ \*

.....  
O \_\_\_\_\_ = \_\_\_\_\_

O \_\_\_\_\_ \*

.....  
T1 \_\_\_\_\_ = \_\_\_\_\_

T \_\_\_\_\_ \*

.....  
Sx \_\_\_\_\_ = \_\_\_\_\_

S1 \_\_\_\_\_ = \_\_\_\_\_

S2 \_\_\_\_\_ = \_\_\_\_\_

S3 \_\_\_\_\_ = \_\_\_\_\_

S4 \_\_\_\_\_ = \_\_\_\_\_

S5 \_\_\_\_\_ = \_\_\_\_\_

.....  
Ex \_\_\_\_\_ = \_\_\_\_\_

E1 \_\_\_\_\_ = \_\_\_\_\_

E2 \_\_\_\_\_ = \_\_\_\_\_

E3 \_\_\_\_\_ = \_\_\_\_\_

E4 \_\_\_\_\_ = \_\_\_\_\_

E5 \_\_\_\_\_ = \_\_\_\_\_