

**Supplemental Table 1: gene trap lines screened**

- Underlining marks gene trap lines that showed any GUS staining in floral organs or inflorescence or floral meristems
- Bolding marks gene trap lines examined in the secondary screen

Pre7800s	7800s	7900s	8000s	8100s	8200s	8300s	8400s	8500s	8600s	8700s	8800s	8900s	9000s	9100s	9200s	9300s	9400s	9500s	9600s
<b><u>6545</u></b>	0	0	0	0	0	<u>0</u>	<b><u>0</u></b>	0	0	0	0	0	0	<u>0</u>	<b><u>0</u></b>	0	0		0
<b><u>6576</u></b>	<u>1</u>	1	1	1	1	1	1	1	1	1	1	1	1	<u>1</u>	1	1	1		1
<u>6685</u>	2	2	2	<b><u>2</u></b>	2	2	2	2	2	2	2	2	2	2	2	2	2		2
<u>6702</u>	3	3	3	<b><u>3</u></b>	3	<b><u>3</u></b>	3	<b><u>3</u></b>	3	3	3	3	3	3	3	3	3		3
<b><u>6935</u></b>	4	4	4	4	4	<u>4</u>	4	4	4	4	4	4	4	4	<u>4</u>	4	4		4
<u>7036</u>	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		5
<b><u>7038</u></b>	6	6	6	6	6	<b><u>6</u></b>	6	6	<u>6</u>	6	6	6	<b><u>6</u></b>	6	<b><u>6</u></b>	6	6		<b><u>6</u></b>
<b><u>7062</u></b>	7	<u>7</u>	<b><u>7</u></b>	7	<u>7</u>	7	7	7	<b><u>7</u></b>	7	7	7	<b><u>7</u></b>	<u>7</u>	<u>7</u>	7	7		7
<u>7286</u>	8	8	8	8	8	8	8	8	8	<u>8</u>	8	8	8	8	8	8	8		8
<b><u>7299</u></b>	9	9	9		9	<b><u>9</u></b>	9	9	9	9	9	<b><u>9</u></b>	<b><u>9</u></b>	<u>9</u>	<u>9</u>	9	<b><u>9</u></b>		<u>9</u>
	10	10	10		10	10	10	10	10	10	10	10	10	<b><u>10</u></b>	10	10	10		10
	11	<u>11</u>	11		11	<b><u>11</u></b>	11	11	11	<b><u>11</u></b>	11	11	11	<u>11</u>	11	11	11		<b><u>11</u></b>
	12	<b><u>12</u></b>	<u>12</u>	<u>12</u>	12	12	12	12	<u>12</u>	12	12	12	12	<u>12</u>	12	12	12		12
	13	13	13	<b><u>13</u></b>	13	13	13	13	13	13	13	13	<b><u>13</u></b>	13	13	13	<b><u>13</u></b>		13
	14	14	14	14	<b><u>14</u></b>	14	14	14	<u>14</u>	<u>14</u>	14	14	14	14	<b><u>14</u></b>	14	14		14
	15	15	15	<b><u>15</u></b>	15	15	15	15	15	15	15	15	15	15	<b><u>15</u></b>	<b><u>15</u></b>	15		15
	16	16	16	16	<u>16</u>	16	16	16	16	16	16	16	16	16	16	<b><u>16</u></b>	16		16
	17	17	17	<u>17</u>	<b><u>17</u></b>	17	17	<b><u>17</u></b>	17	17	17	17	<u>17</u>	17	17	17	17		17
	18	18	18	18	18	18	18	<u>18</u>	18	18	18	18	18	18	18	18	18		18
	19	<u>19</u>	19	19	19	19	19	19	<b><u>19</u></b>	19	19	19	<u>19</u>	19	19	19	19		19
	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20		20
	<u>21</u>	<b><u>21</u></b>	21	<b><u>21</u></b>	<u>21</u>	<u>21</u>	21	21	21	21	21	21	21	21	21	<b><u>21</u></b>	21		21
	22	22	22	22	22	22		22	22	<b><u>22</u></b>	22	<u>22</u>	22	22	22	22	22		22
	23	23	23	<u>23</u>	23	23	23	<u>23</u>	<b><u>23</u></b>	<u>23</u>	23	23	23	<u>23</u>	23		23		23
	24	24	<u>24</u>	24		24	24	24	24	24	24	24	24	24	<b><u>24</u></b>	24	24		24
		25	25	25		25	25	<b><u>25</u></b>	25	25	25	25	25	25	25	25	25		25
	26	26	<u>26</u>	26	26	26	26	26	26	26	26	26	26	26	26	26	26		26
	27	27	<b><u>27</u></b>	27		27	27	27	27	27	27	27	<b><u>27</u></b>	27	27	27	27	27	27
	28	28	<u>28</u>	28	28	28	<u>28</u>	28	28	28	28	28	28	28	28	28	28	28	28
	29	29	29	29	29	29	29	29	29	29	29	29	<u>29</u>	29	<b><u>29</u></b>	29	29	29	29
	30	30	30	<u>30</u>	30	30	<b><u>30</u></b>	30	30	30	30	30	<u>30</u>	30	30	30	30	30	30
	31	31	31	31	31	<u>31</u>	31	31	31	31	31	31	31	31	31	31	31	31	31
	32	32	<b><u>32</u></b>	<b><u>32</u></b>	32	32	32	32	32	32	32	32	<u>32</u>	32	32	<b><u>32</u></b>	32	32	32



72	72	<u>72</u>	72		72	<u>72</u>	72	72	72	72	72	<u>72</u>	72	72	72	72	72	72	72	
73		73	73	73	73	<u>73</u>	73	73	73	73	<u>73</u>	73	73	73	<u>73</u>	73	73	73	73	
74		74	<u>74</u>	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	
<u>75</u>		75	75	<u>75</u>	75	75	75	75	75	75	75	<u>75</u>	75	75	<u>75</u>	75	75	<u>75</u>	75	
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77	<u>77</u>	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	
78	78	<u>78</u>	78	78	<u>78</u>	78	78	78	78	78	78	78	<u>78</u>	78	78	78	78	78	78	
79	79	79	<u>79</u>	79	79	79	79	79	79	79	79	<u>79</u>	79	79	79	79	79	79	79	
<u>80</u>	80	80	80	80	<u>80</u>	80	80	80	80	80	80	80	80	<u>80</u>	80	80	80	80	80	
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<u>82</u>	<u>82</u>	<u>82</u>	82	<u>82</u>	82	82	82	82	82	<u>82</u>	<u>82</u>	82	82	<u>82</u>	82	82	82	82	82	
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<u>85</u>	<u>85</u>	<u>85</u>	85	85	85	<u>85</u>	85	85	85	85	85	85	85	85	85	85	85	85	85	
86	86	86	<u>86</u>	86		86	86	<u>86</u>	86	86	86	86	86	86	86	86	86	86	86	
87	87	87	87	87	87	87	87	87	87	<u>87</u>	87	87	<u>87</u>	87	87	87	87	87	87	
<u>88</u>	88	88	88	<u>88</u>	88	88	88	88	88	88	88	88	88	88	88	<u>88</u>	88	88	88	
<u>89</u>	89	89	89	89		89	89	<u>89</u>	89	89	89	89	89	89	89	89	<u>89</u>		<u>89</u>	
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91	<u>91</u>	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	
92	92	92	92	92		92	92	92	92	92	<u>92</u>	92	92	92	92	92	92	92	92	
93	93	93	<u>93</u>	93	<u>93</u>	<u>93</u>	93	93	93	93	<u>93</u>	93	93	93	<u>93</u>	93	93	93	93	
94	94	94	94	<u>94</u>	94	94	94	94	94	<u>94</u>	94	94	94	94	94	<u>94</u>	94	94	94	
95	95	95	95	<u>95</u>		95	95	95	95	95	95	95	95	95	95	95	95	95	95	
96	96	<u>96</u>	96	96	96	96	<u>96</u>	96	96	96	96	96	96	96	96	96	96	96	96	
97	97	97	97	97	97	<u>97</u>	97	97	97	97	97	97	97	<u>97</u>	97	97	97	97	97	
98	98	98	<u>98</u>	98	<u>98</u>	<u>98</u>	98	98	98	98	98	98	<u>98</u>	98	98	98	98	98	98	
99	<u>99</u>	99	99	99	99	99	99	99	99	99	99	<u>99</u>	<u>99</u>	99	99	99	99	99	99	

TOTAL

Lines with staining	10	15	20	18	27	17	22	17	12	16	14	11	13	21	18	17	13	7	8	6	302
Lines without staining	0	84	77	82	66	71	71	82	88	84	86	86	83	76	81	82	84	78	63	39	1463
Lines used in the primary screen	10	99	97	100	93	88	93	98	100	100	100	97	96	97	99	99	97	85	71	45	1765

Lines used in the secondary screen	6	4	10	6	9	12	9	12	8	5	7	7	8	10	7	8	6	4	3	3	144
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