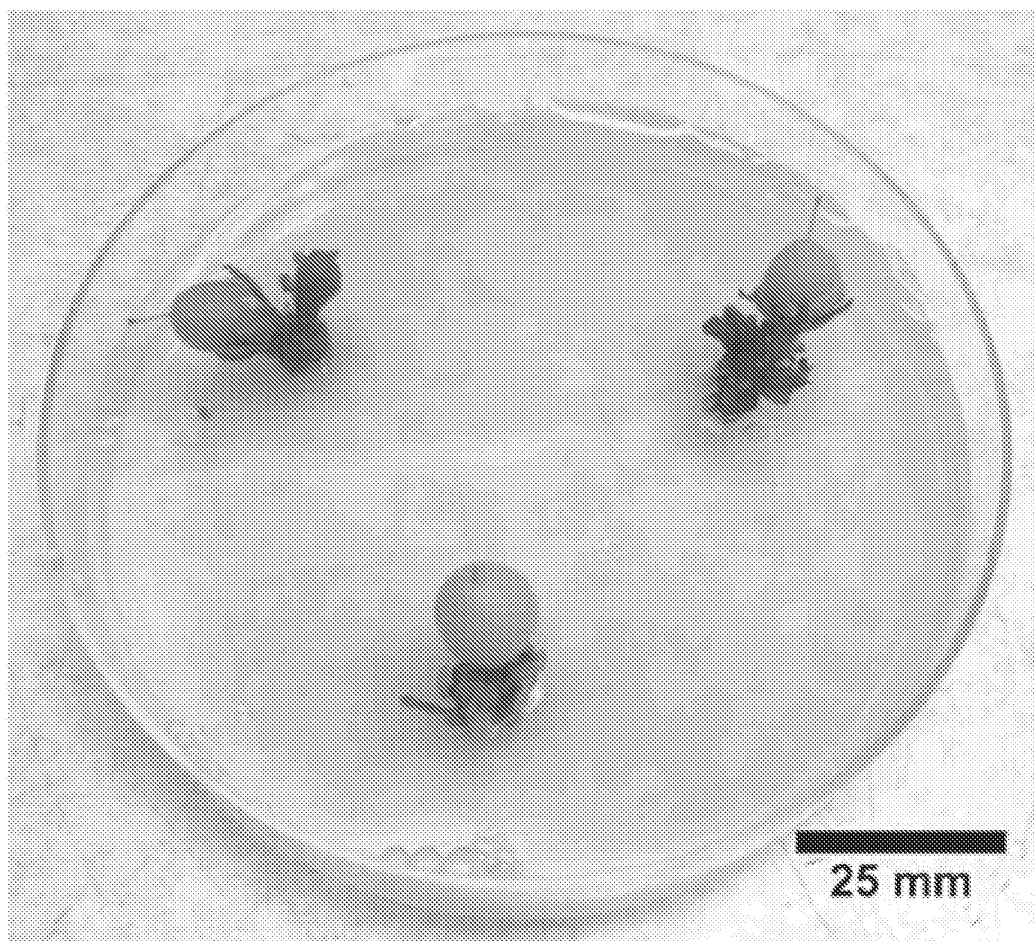
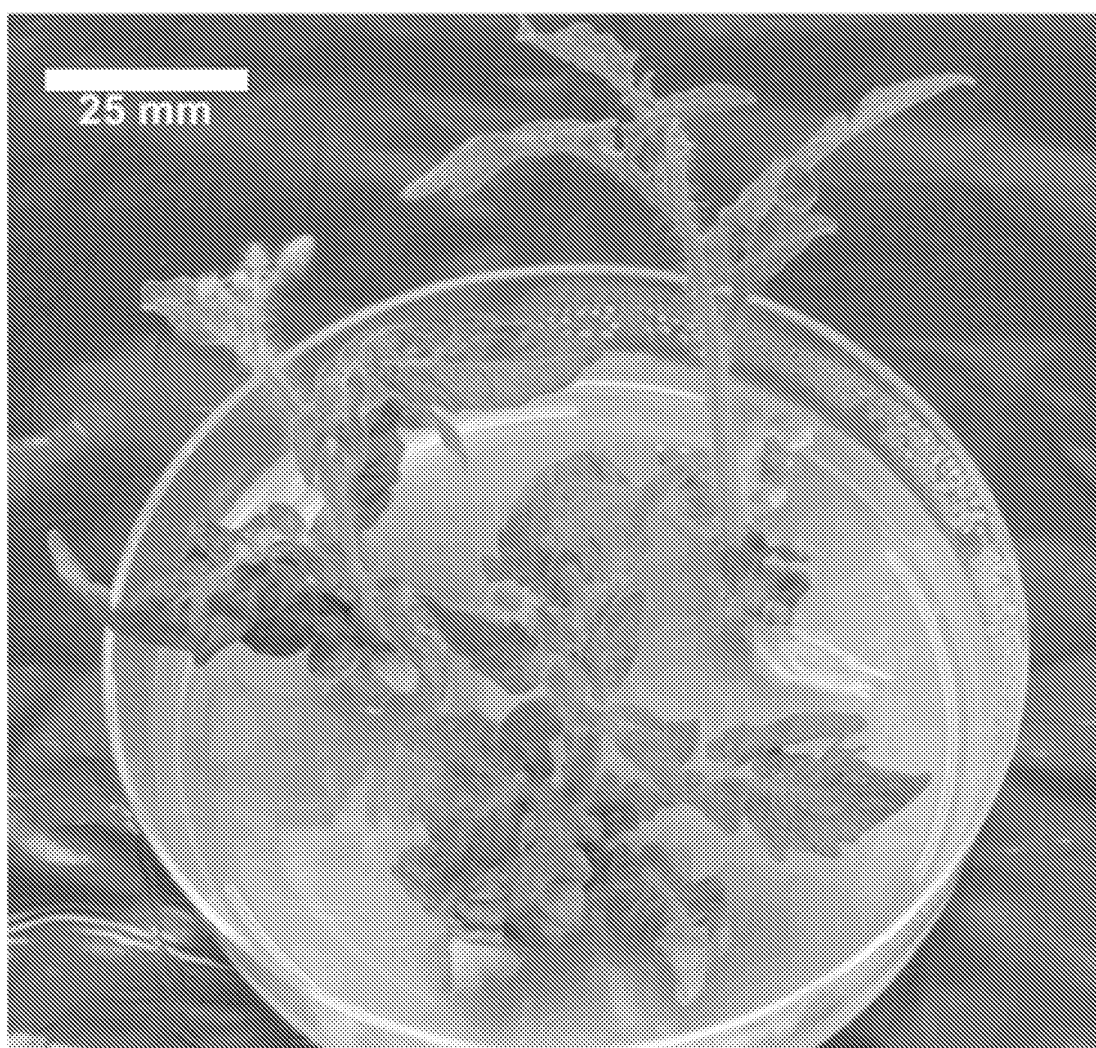


**FIG. 1**

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**FIG. 2**

SUBSTITUTE SHEET (RULE 26)

**FIG. 3**

SUBSTITUTE SHEET (RULE 26)

**FIG. 4**

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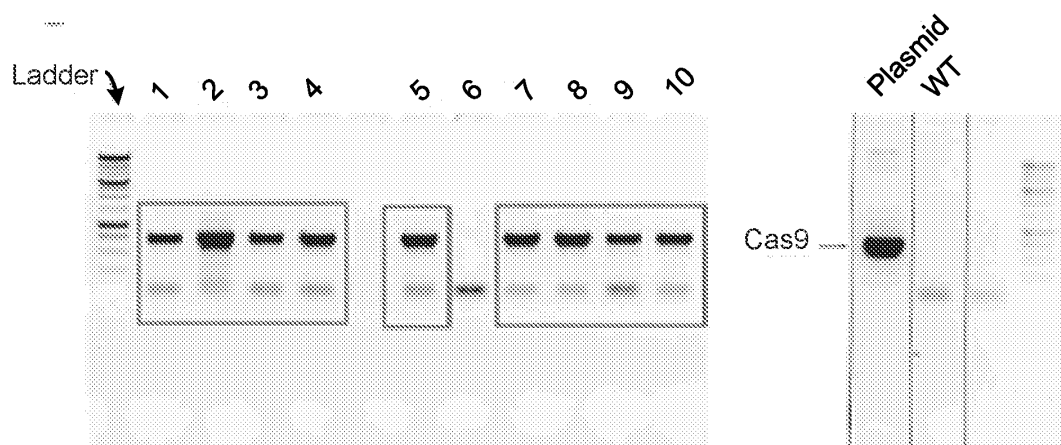


FIG. 5A

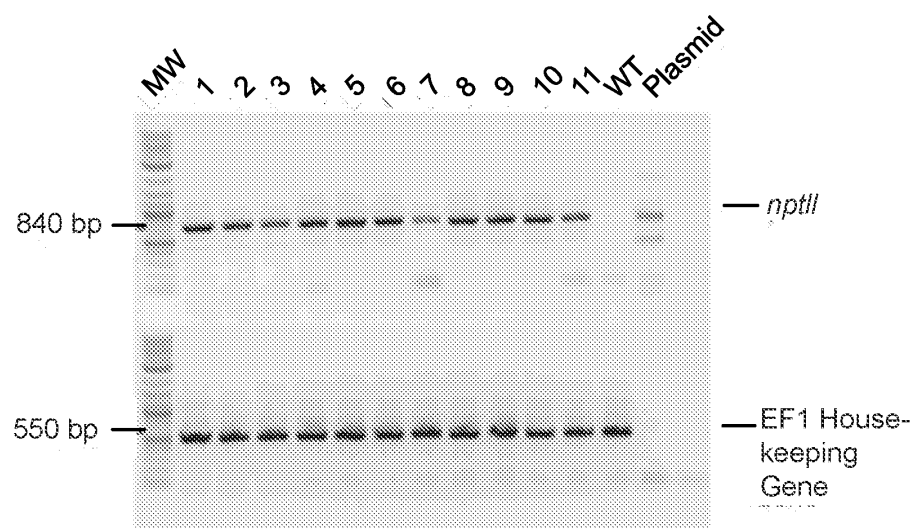
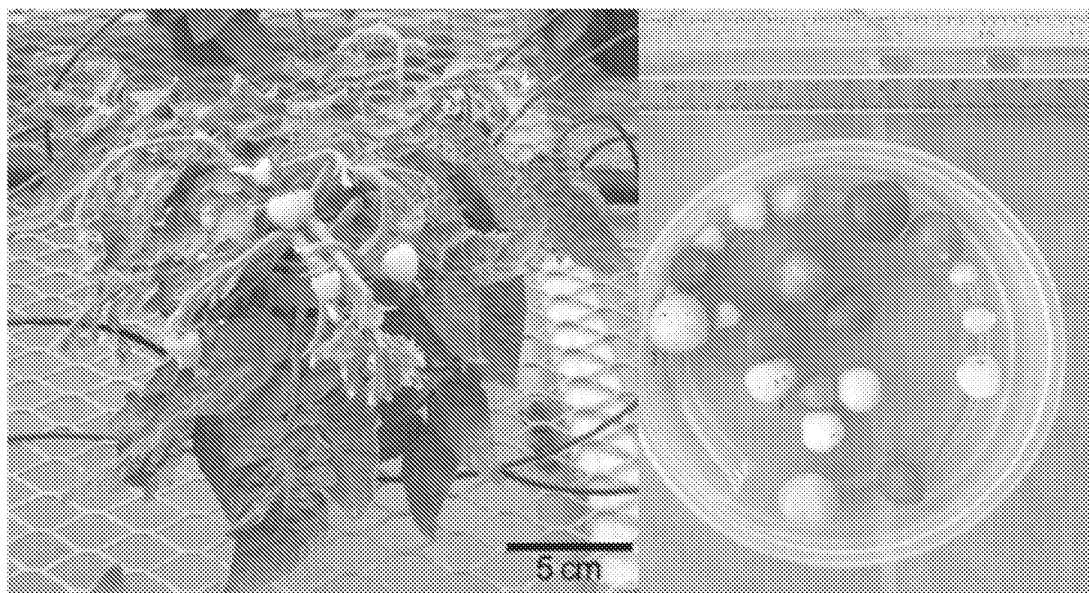
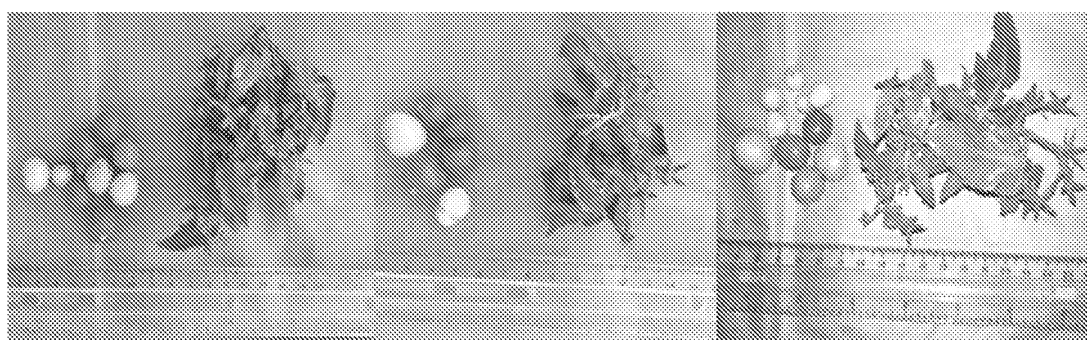


FIG. 5B

	Yellow highlight = deletions
Guide RNA	ATACGTATGCCCGGTGATGCC
WT	GAGAAACGAAGATCAGTGGTCCCTATACGTATGCCCGGTGATGCCACATCTGAGTT
1	GAGAAACGAAGATCAGTGGTCCCTA--CGTATGCCCGGTGATGCCACATCTGAGTT
4	GAGAAACGAAGATCAGTGGTCCCTATA--GTATGCCCGGTGATGCCACATCTGAGTT

FIG. 5C

**FIG. 6A****FIG. 6B**

Source: <http://blast.ncbi.nlm.nih.gov>

	Description	Max Score	Total Score	Query Cover	E-value	Per cent	Accession
1	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	3079	3079	100%	0.0	86.47%	Y001200072.1
2	<i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	2787	2787	98%	0.0	86.34%	AF128237.1
3	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	3039	3039	97%	0.0	87.83%	Y001200072.1
4	<i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	2440	2440	100%	0.0	83.79%	AF128237.1
5	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	3039	3039	94%	0.0	83.04%	Y001200072.1
6	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	3039	3039	94%	0.0	83.10%	Y001200072.1
7	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	2113	2113	93%	0.0	82.49%	Y001200072.1
8	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	3039	3039	93%	0.0	81.49%	Y001200072.1
9	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	2054	2054	93%	0.0	80.69%	Y001200072.1
10	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	2054	2054	93%	0.0	80.59%	Y001200072.1
11	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	1986	1986	89%	0.0	80.04%	Y001200072.1
12	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	1871	1871	88%	0.0	80.49%	Y001200072.1
13	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	1797	1797	89%	0.0	88.05%	Y001200072.1
14	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	1790	1790	89%	0.0	87.03%	Y001200072.1
15	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	1790	1790	93%	0.0	87.43%	Y001200072.1
16	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	1788	1788	87%	0.0	88.94%	Y001200072.1
17	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	1783	1783	89%	0.0	87.83%	Y001200072.1
18	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	1711	1711	88%	0.0	87.18%	Y001200072.1
19	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	1679	1679	83%	0.0	88.14%	Y001200072.1
20	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	1164	1164	48%	0.0	94.07%	Y001200072.1
21	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	808	808	87%	5e-147	73.55%	Y001200072.1
22	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	480	480	89%	3e-131	73.84%	Y001200072.1
23	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	476	476	88%	2e-130	73.63%	Y001200072.1
24	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	401	401	87%	6e-122	72.87%	Y001200072.1
25	<i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	444	444	100%	7e-120	86.58%	Y001200072.1
26	<i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	444	444	100%	7e-120	86.58%	Y001200072.1
27	<i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	418	418	100%	2e-111	87.03%	Y001200072.1
28	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	408	408	89%	3e-109	74.18%	Y001200072.1
29	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	408	408	89%	3e-109	74.18%	Y001200072.1
30	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	408	408	89%	3e-109	74.18%	Y001200072.1
31	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	408	408	89%	3e-109	74.18%	Y001200072.1
32	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	384	384	88%	2e-108	73.49%	Y001200072.1
33	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	368	368	88%	3e-106	73.08%	Y001200072.1
34	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	373	373	89%	4e-106	73.44%	Y001200072.1
35	<i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	368	368	87%	2e-106	73.05%	Y001200072.1
36	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	272	272	89%	4e-98	71.81%	Y001200072.1
37	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	272	272	89%	4e-98	71.81%	Y001200072.1
38	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	261	261	88%	9e-96	71.79%	Y001200072.1
39	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	64.7	64.7	1%	0.014	100.00%	Y001200072.1
40	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	64.7	64.7	1%	0.014	100.00%	Y001200072.1
41	PREDICTED: <i>Salicornia bicolor</i> cDNA (AF128237) subsequence 2 (LOC1000000000) contig1.contig.X1_c0000	64.7	64.7	1%	0.014	100.00%	Y001200072.1

FIG. 7

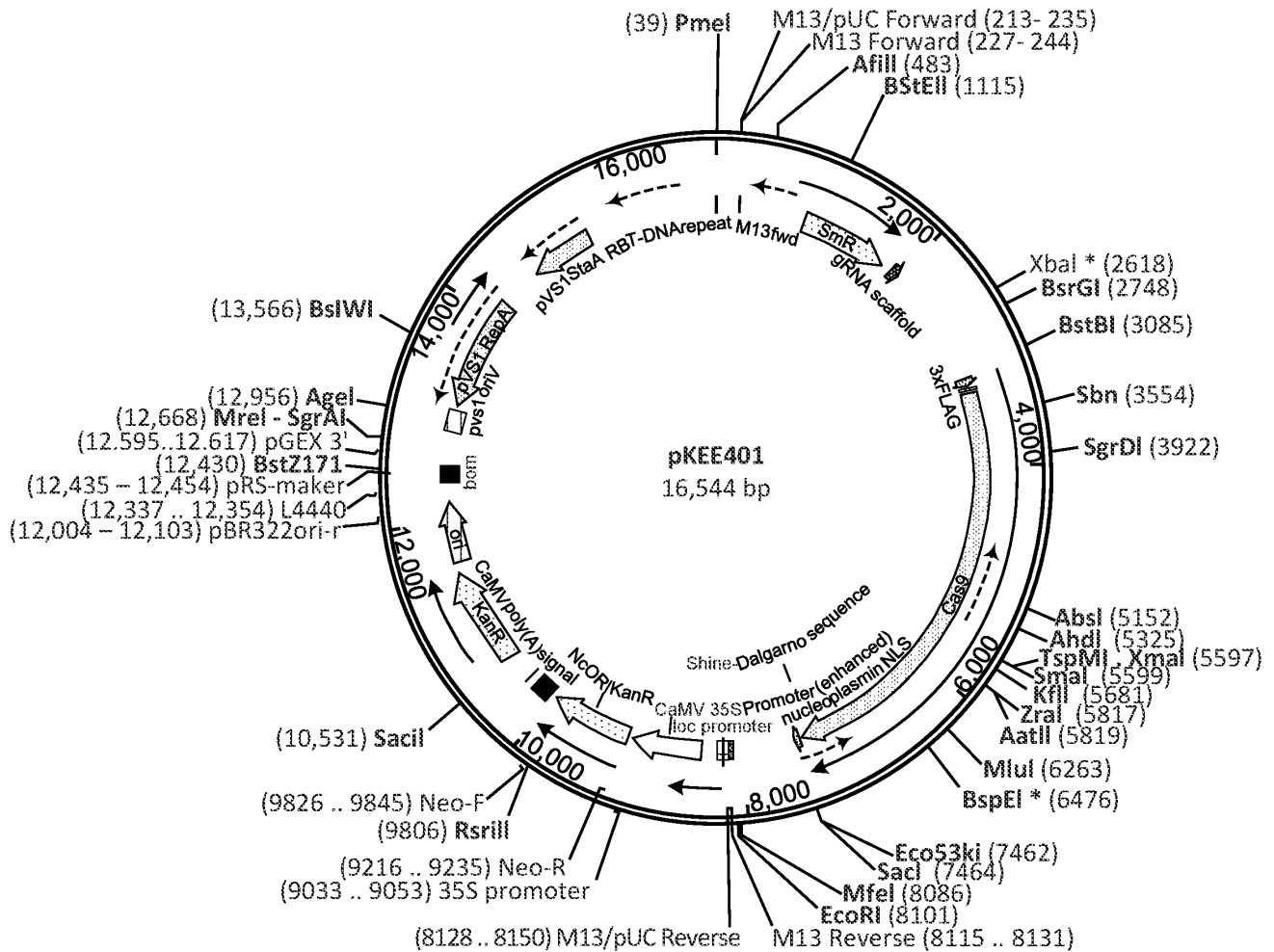


FIG. 8

Structural domains of PARP2

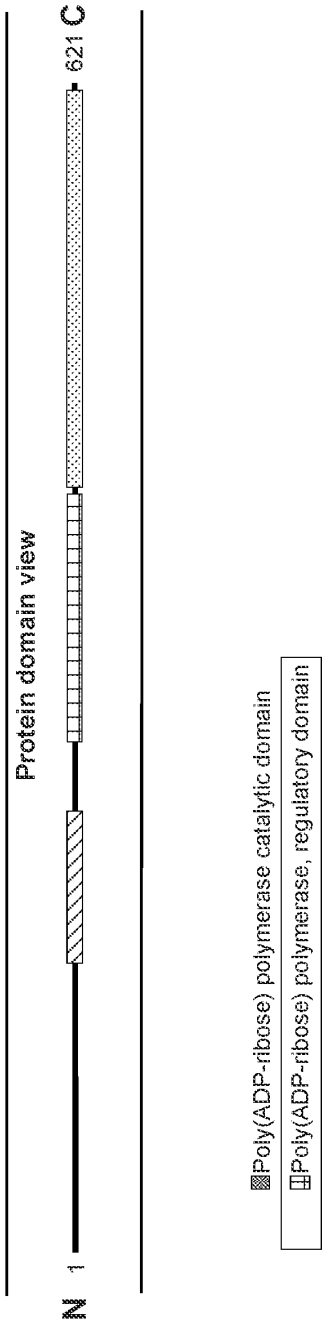


FIG. 9



FIG. 10A

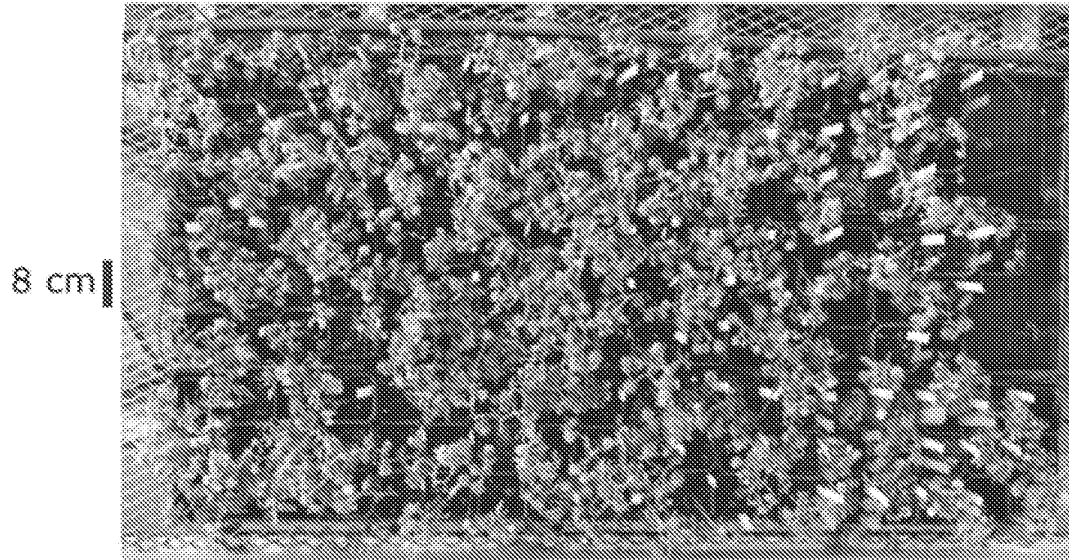
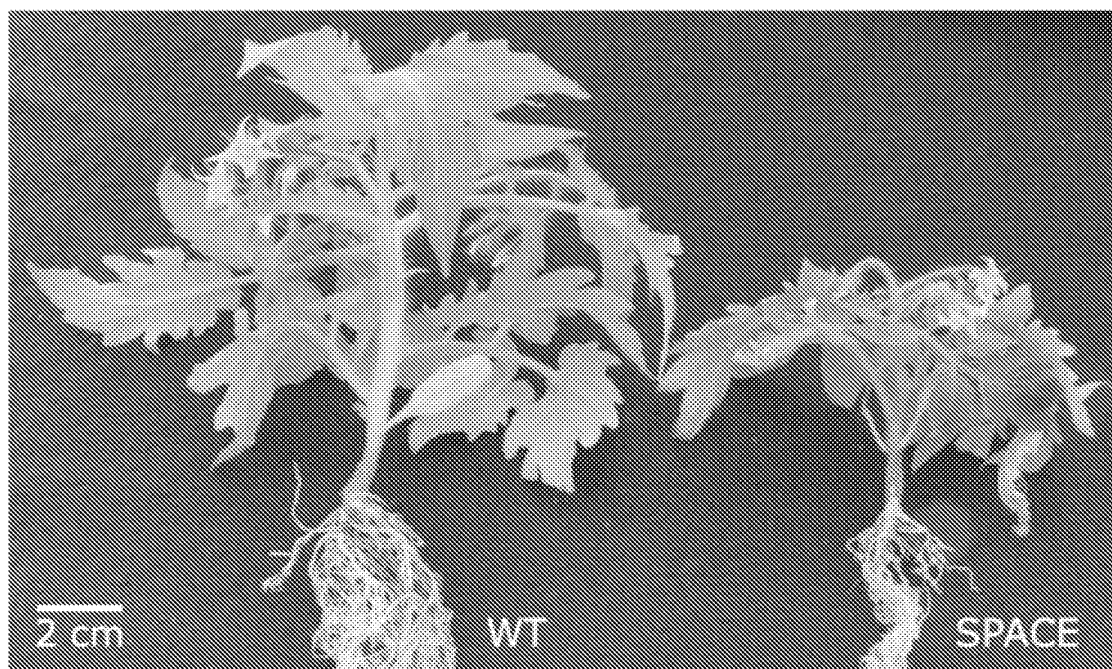


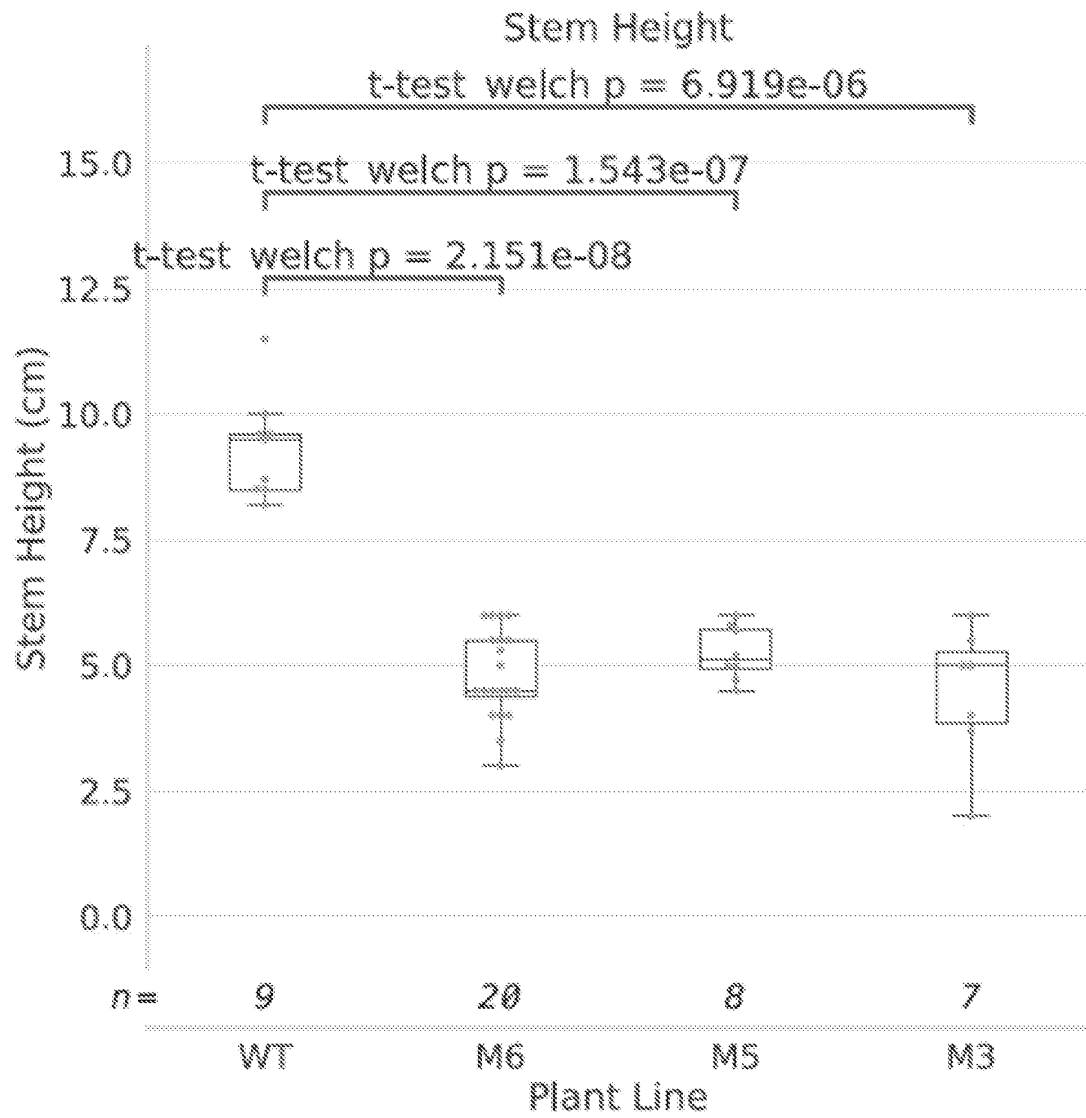
FIG. 10B

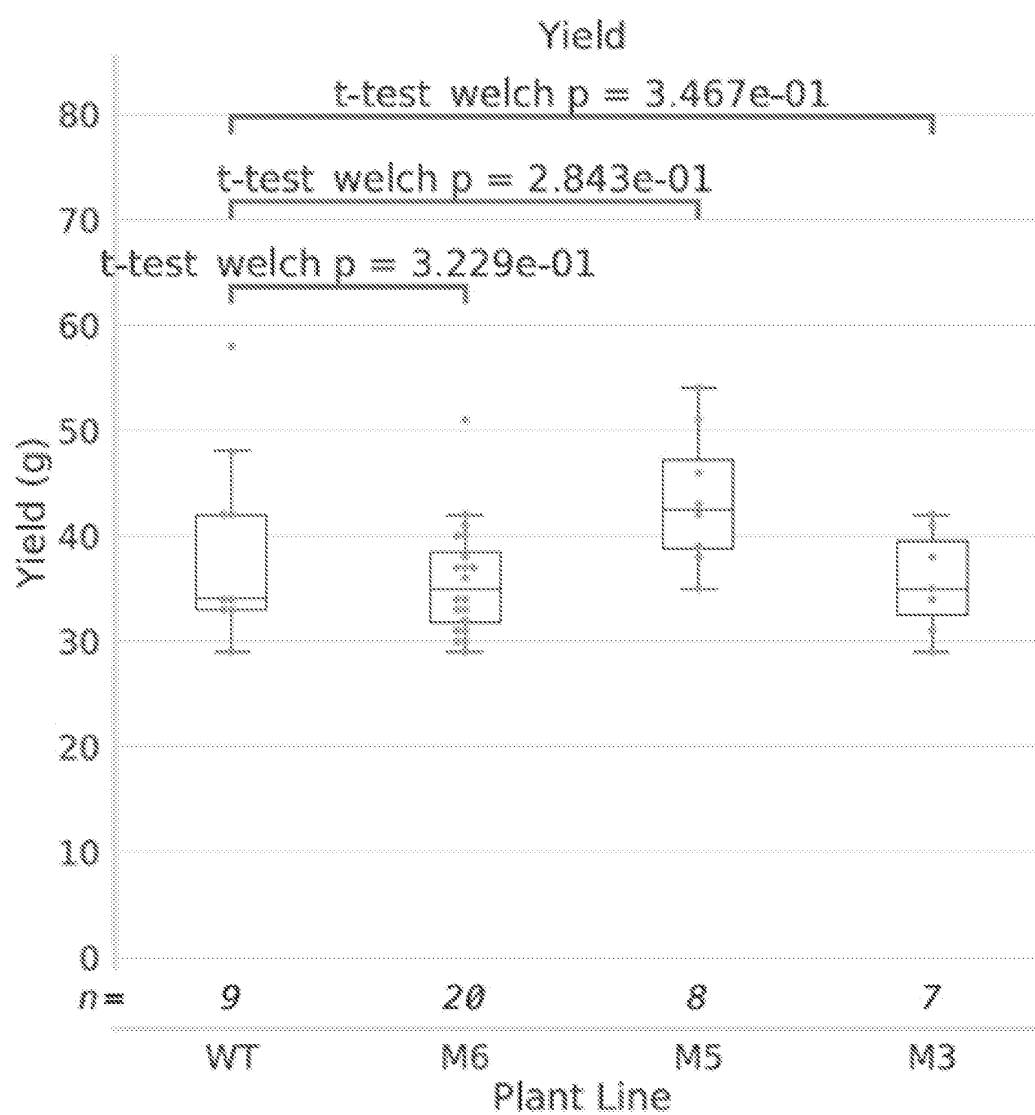


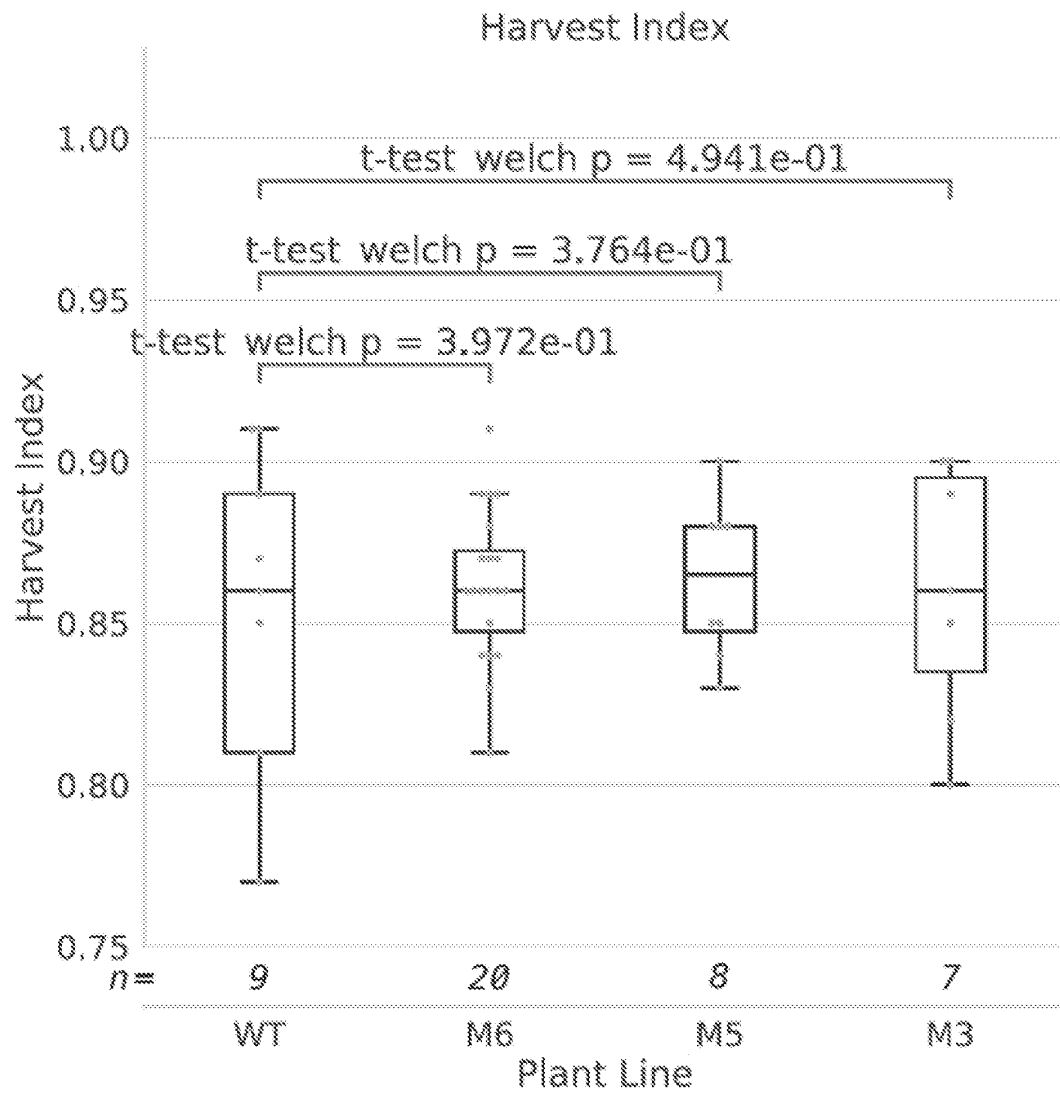
FIG. 10C

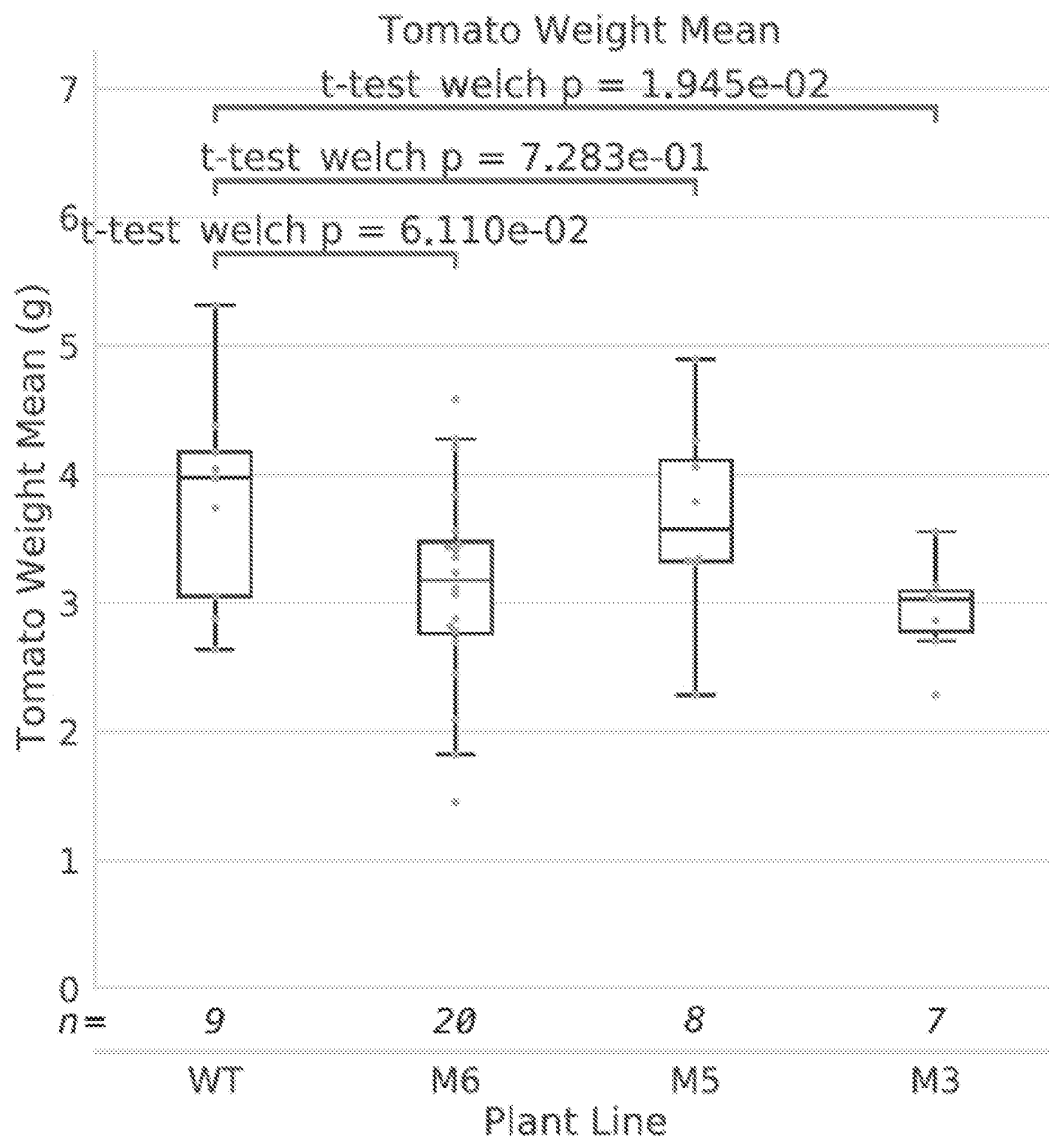
**FIG. 11A****FIG. 11B**

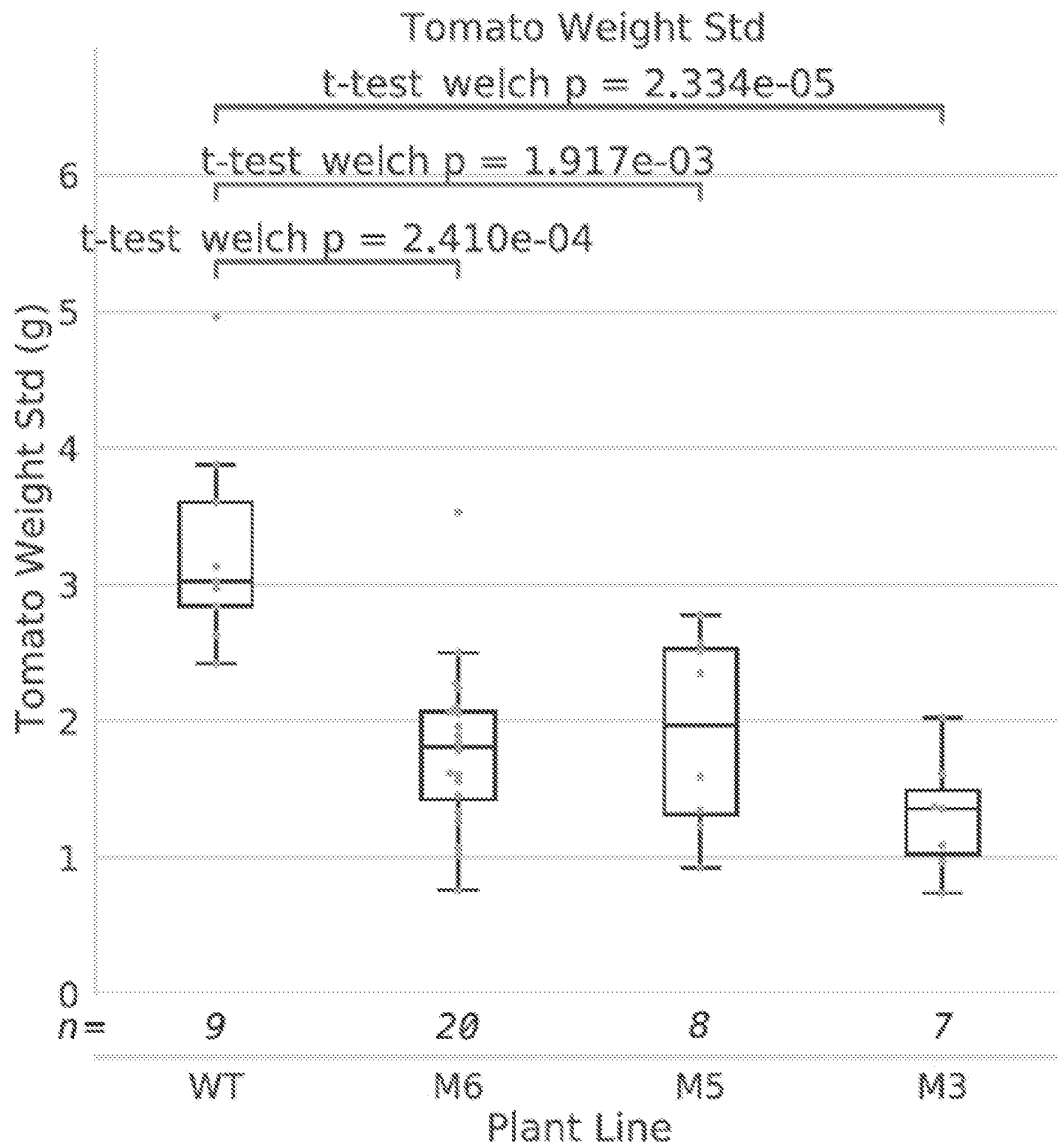
**FIG. 11C**

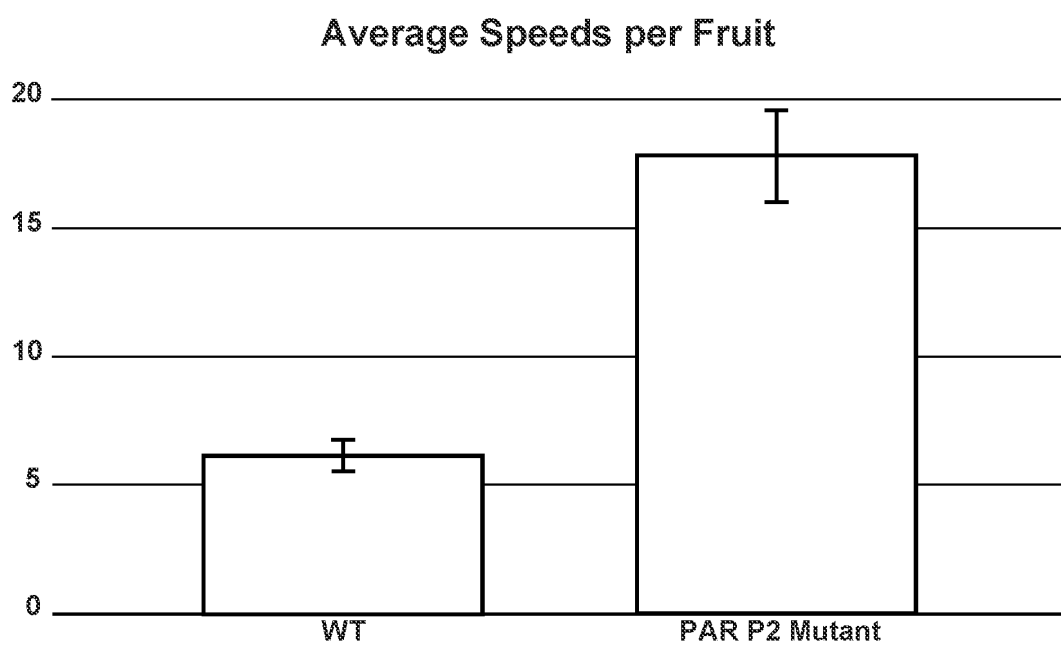
**FIG. 12A**

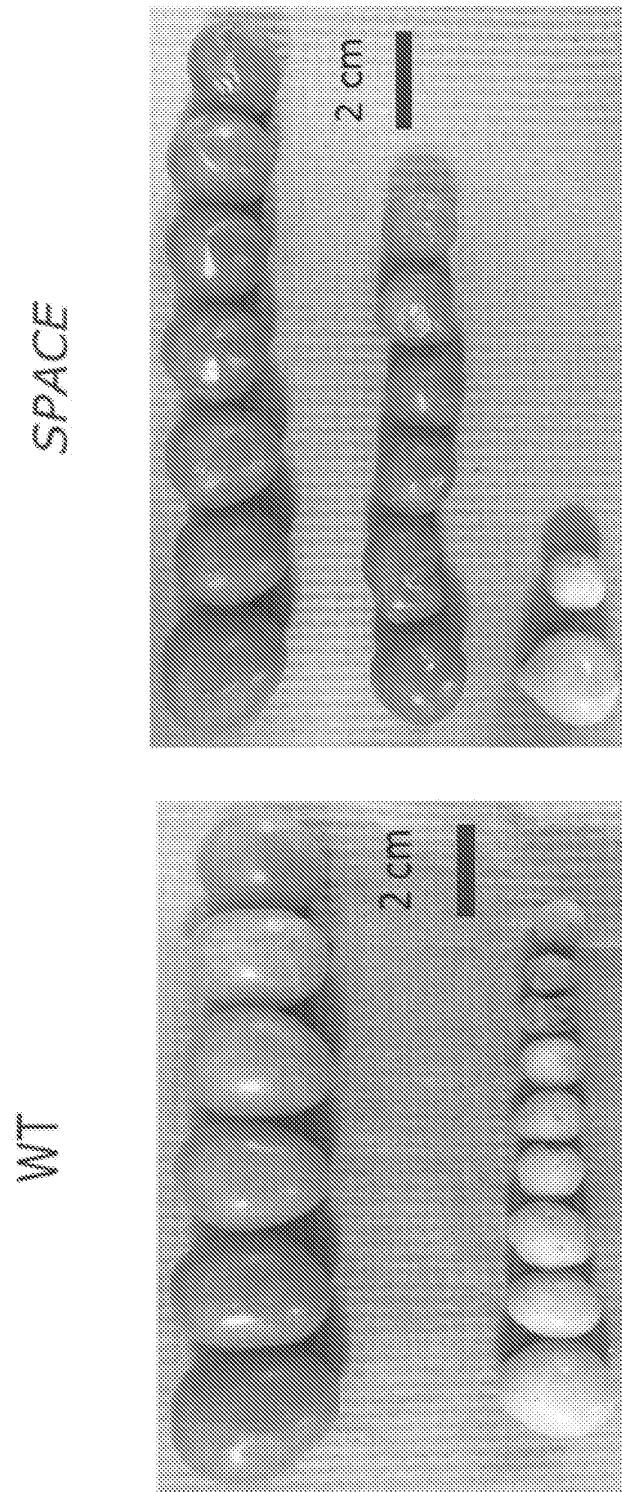
**FIG. 12B**

**FIG. 12C**

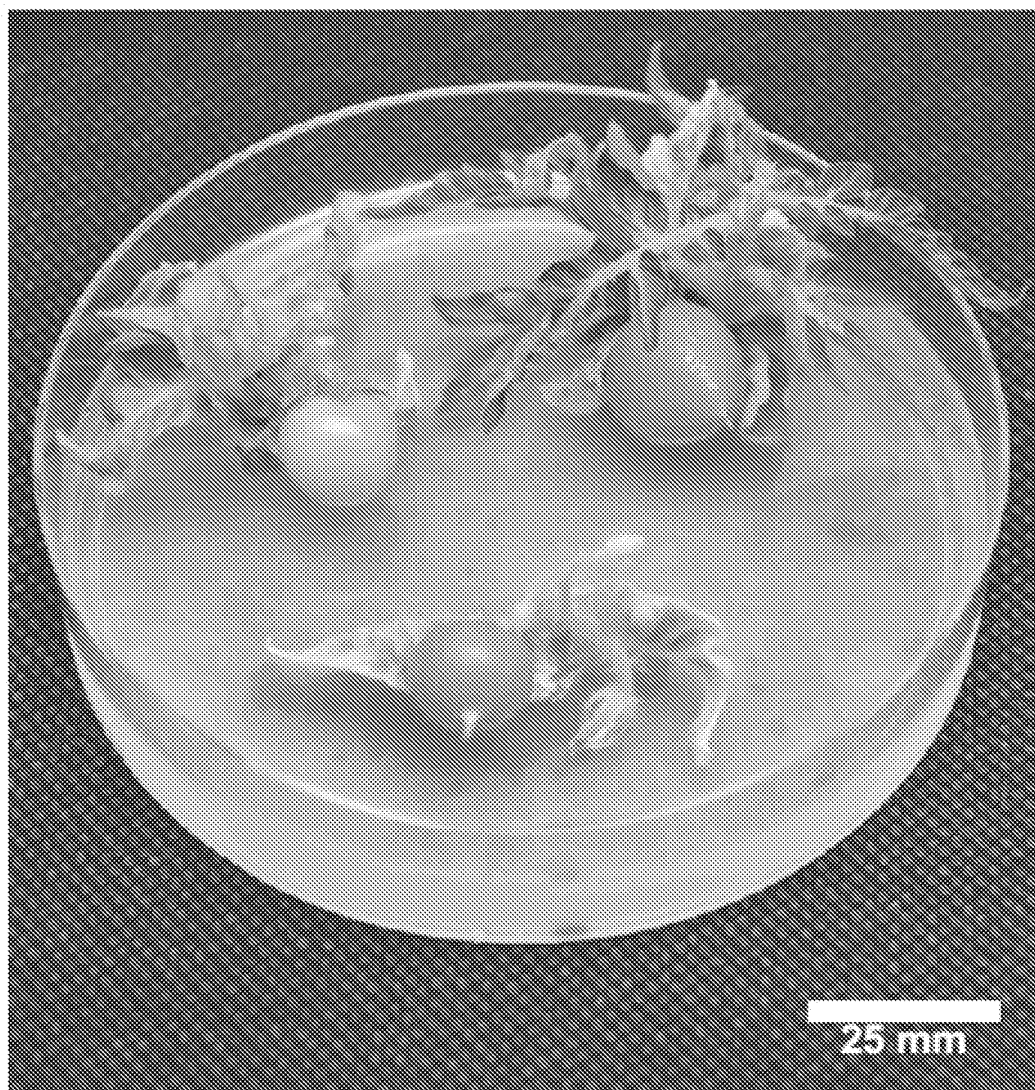
**FIG. 12D**

**FIG. 12E**

**FIG. 12F**

**FIG. 13**

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**FIG. 14**

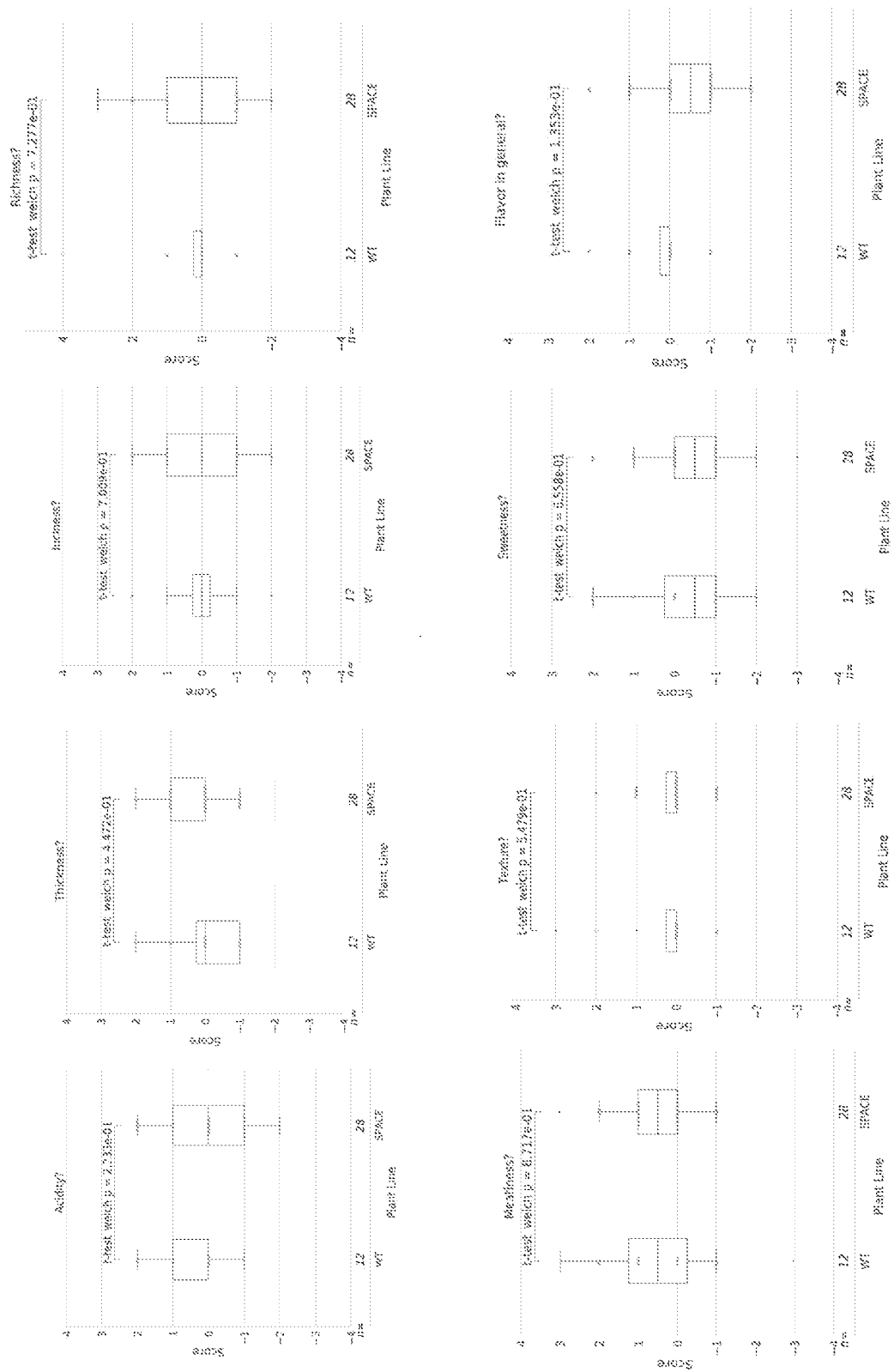
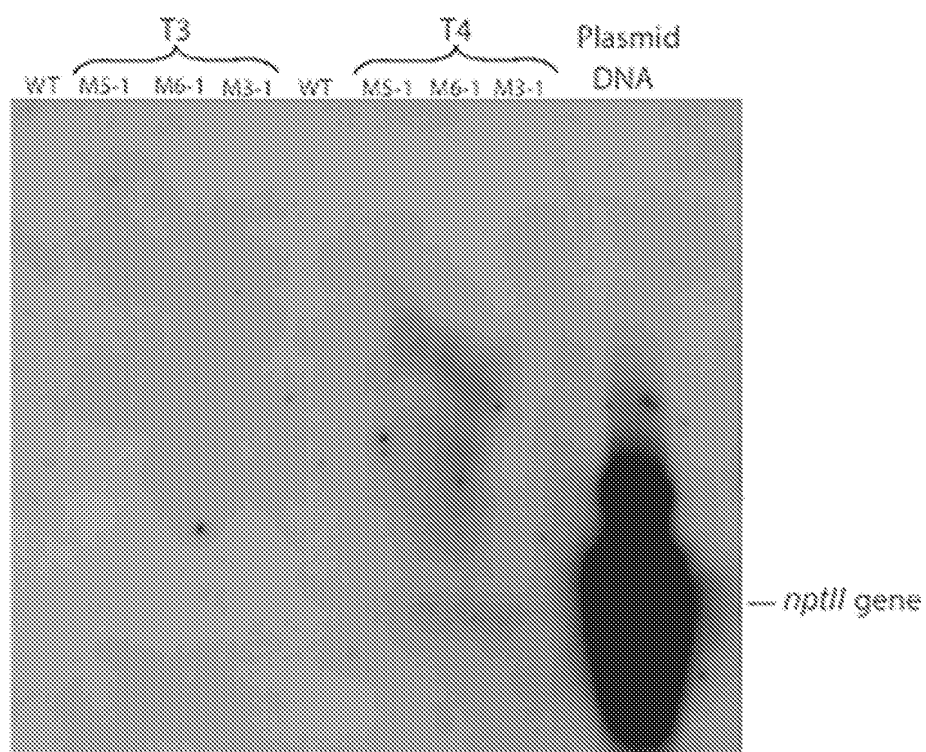


FIG. 15
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**FIG. 16**