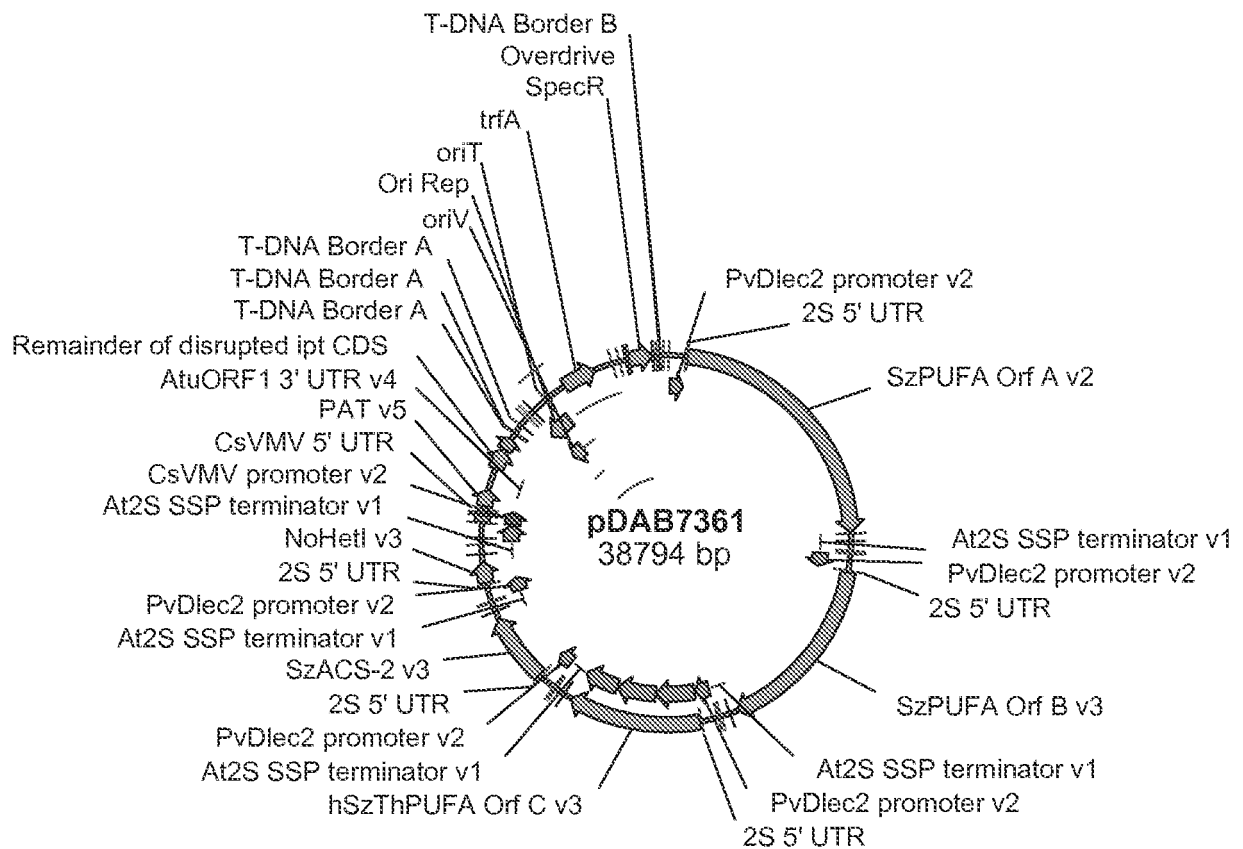


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	1		60
Repeat 1	(1)	GTGTCCAAACGAGTTGCTTGAGAAAAGCTGAGACAGTTGTGATGGAGGTTCTCGCTGCCAAG	
Repeat 3	(1)	GFTCTCAAACGAACTCCTTGAAAAAGCTGAGACCGTCTGATGGAGGTTCTTGCCAGCTAAA	
Repeat 4	(1)	GTTTCTTCAGAACTCTTGAGAAAGGCTGAGACGTTGTGATGGAGGTTTGGCTGCCAAG	
Repeat 8	(1)	GTCTCCTCAGAACTCCTTGAAAAAGGCTGAGACAGTTGTGATGGAAAGTCCTTGCTGCCAAA	
Repeat 5	(1)	GTTTCATCCGAACTCCTTGAAAAAGGCCGAGACGTTGTGATGGAGGTTGCTCGCAGCTAAG	
Repeat 9	(1)	GTCAGCAACGAACTCCTTGAAAAAGCTGAAACTGTTGTGATGGAGGTTTGGCTGCCAAG	
Repeat 2	(1)	GTTTCTAATGAGCTGCTCGAAAAAGGCAGAACTGTTGTGATGGAAAGTCCTTGCTGCCAAA	
Repeat 6	(1)	GTCAGCAATGAGTTGCTCGAGAAAGGCCAAACAGTTGTGATGGAAAGTCCTTGCTGCCAAA	
Repeat 7	(1)	GTCAGCAACGAATGCTTGAGAAAGGCTGAAACAGTTGTGATGGAAAGTCCTTGCTGCCAAA	
	61		120
Repeat 1	(61)	ACTGGATACGAAACAGACATGATTGAGGCGGACATGGAGCTTGAGACTGAGTTGGGAATT	
Repeat 3	(61)	ACCGGCTATGAGACTGACATGATTGAGTCTGACATGGAATTGGAGACAGAACTTGGGATA	
Repeat 4	(61)	ACTGGCTATGAGACCGACATGATTGAATCTGATATGGAATTGGAGACAGAGCTTGGGATC	
Repeat 8	(61)	ACTGGCTATGAGACCGACATGATTGAATCTGACATGGAAGTGGAGACCGAGCTTGGAAAT	
Repeat 5	(61)	ACTGGTTACGAGACCGACATGATTGAAGTGACATGGAGCTTGAAACCGAGTTGGGAATA	
Repeat 9	(61)	ACTGGATACGAGACTGACATGATAGAGTCAGACATGGAGTTGGAACAGAGCTTGGGATT	
Repeat 2	(61)	ACTGGCTACGAAACTGACATGATAGAATCAGACATGGAGCTTGAGACCGAGCTTGGAAAT	
Repeat 6	(61)	ACTGGTTACGAAACGGACATGATTGAGTCAGACATGGAATTGGAGACCGAACTTGGGAATA	
Repeat 7	(61)	ACCGGCTATGAGACTGACATGATTGAGTCTGACATGGAAGTGGAGACCGAATTGGGCATT	
	121		180
Repeat 1	(121)	GACAGCATCAAGAGGTTTGAATTCCTTCTGAAGTCCAAGCTATGCTTAACGTTGAGGCG	
Repeat 3	(121)	GACAGCATCAAAACGTTGTTGAAATCCTCAGTGAGGTTCCAAGCTATGCTGAACGTTGGAAGCG	
Repeat 4	(121)	GATTCATCAAAAGAGTGGAGATCCTGAGTGAAGTCCAAGCATGCTCAATGTTGAAGCT	
Repeat 8	(121)	GACTCCATCAAAACGTTGTTGAAATCCTCTCTGAGGTTCAAGCATGCTTGAATGTTGAGGCC	
Repeat 5	(121)	GATAGCATCAAAACGTTGTTGAAATCCTTCTGAGGTTCAAGCATGCTTGAACGTTGAGGCC	
Repeat 9	(121)	GATAGCATCAAGCGTGTGGAATCCTTCTGAGGTTCAAGCATGCTGAACGTTGAGGCC	
Repeat 2	(121)	GATTCATCAAGCGTGTGGAATCCTCAGTGAAGTCCAAGCATGCTCAATGTTGAAGCT	
Repeat 6	(121)	GATTCATCAAGAGAGTGGAGATCCTCTCTGAGGTTCAAGCATGCTCAACGTTGAGGCT	
Repeat 7	(121)	GACAGCATCAAGCGTGTGAGATCCTCAGTGAAGTCCAAGCAATGCTCAATGTTGAGGCT	
	181		240
Repeat 1	(181)	AAAGATGTTGATGCTCTCTCTAGGACGAGAACAGTGGGTGAAGTTGTCACCGCTATGAAG	
Repeat 3	(181)	AAGGATGTTGATGCTCTGTCCAGAACGAGGACCGTTGGTGAGGTTGTGGATGCCATGAAG	
Repeat 4	(181)	AAGGATGTTGATGCTCTCTCAAGAACAGGACAGTGGGTGAGGTTGTGGATGCCATGAAG	
Repeat 8	(181)	AAAGATGTTGATGCTCTTCCAGAACAGGACGTTGGGAGAGGTTGTTGATGCCATGAAG	
Repeat 5	(181)	AAAGATGTCGATGCGCTTTCAGAACACAGTCCGTGAGGTCGTGGACGCCATGAAG	
Repeat 9	(181)	AAAGATGTCGATGCTTGTCAAGGACACAGACGTTGGAGAAAGTGGTCGATGCCATGAAG	
Repeat 2	(181)	AAGGATGTTGATGCTCTCTCAAGGACACAGTCTCGGTGAGGTTGTCAATGCCATGAAG	
Repeat 6	(181)	AAAGATGTTGATGCTCTCAGTAGGACAGAACTGTGGGGGAAGTTGTGATGCCATGAAG	
Repeat 7	(181)	AAGGATGTTGATGCCCTCTCAAGGACACAGTTCGTGAGGTCGTTGATGCCATGAAG	
	241		261
Repeat 1	(241)	GCAGAAATCGCTGGTTCTTCC	
Repeat 3	(241)	GCTGAAATGCTGGAGGGTCT	
Repeat 4	(241)	GCGGAGATTGCTGGAGGGAGC	
Repeat 8	(241)	GCTGAGATAGCTGGGGTTCT	
Repeat 5	(241)	GCTGAAATGCCGGAAGCTCT	
Repeat 9	(241)	GCTGAGATAGCTGGTGGATCA	
Repeat 2	(241)	GCTGAGATAGCTGGAGGCTCC	
Repeat 6	(241)	GCTGAGATGCTGGAGGCTCT	
Repeat 7	(241)	GCGGAGATCGCTGGAAGTTCC	

FIG. 1

**FIG. 2**

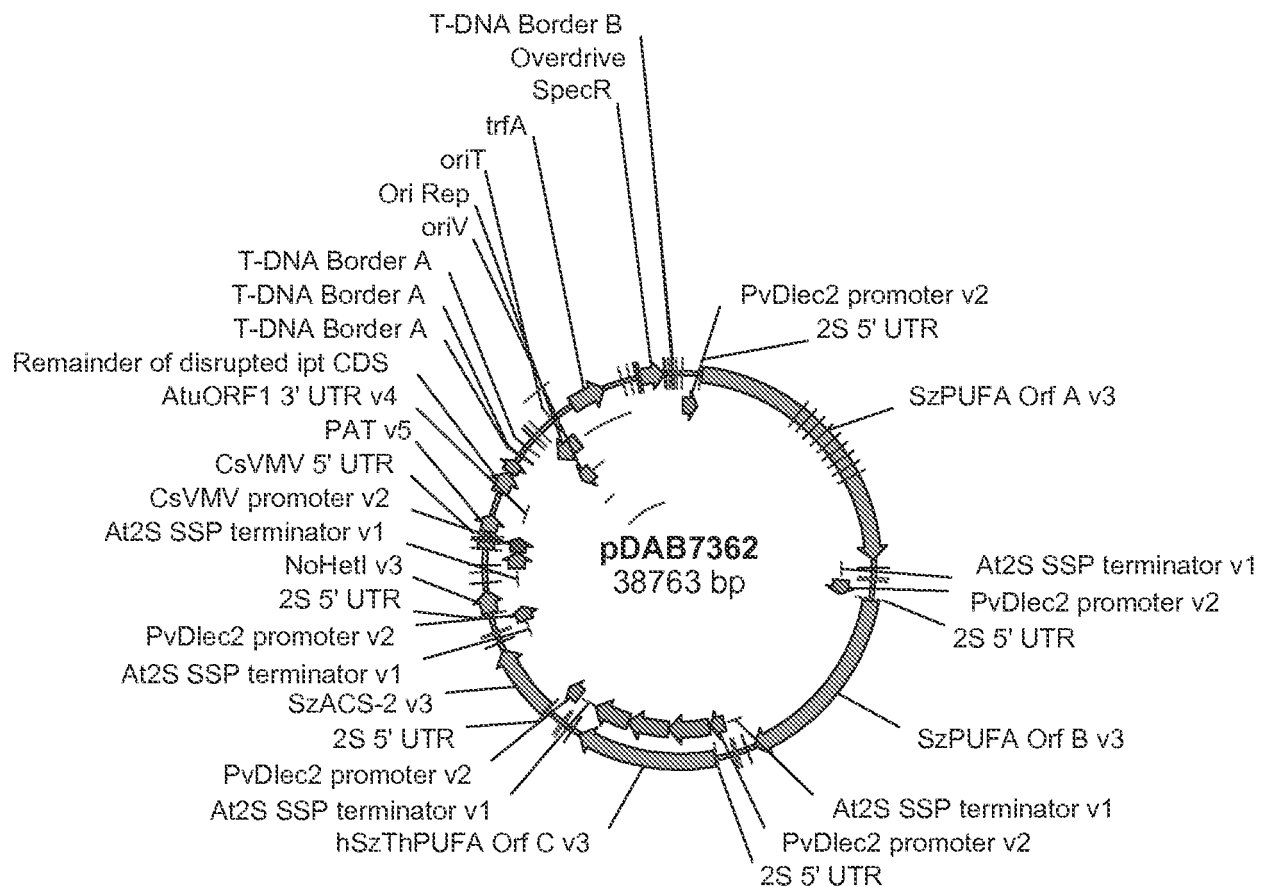


FIG. 3

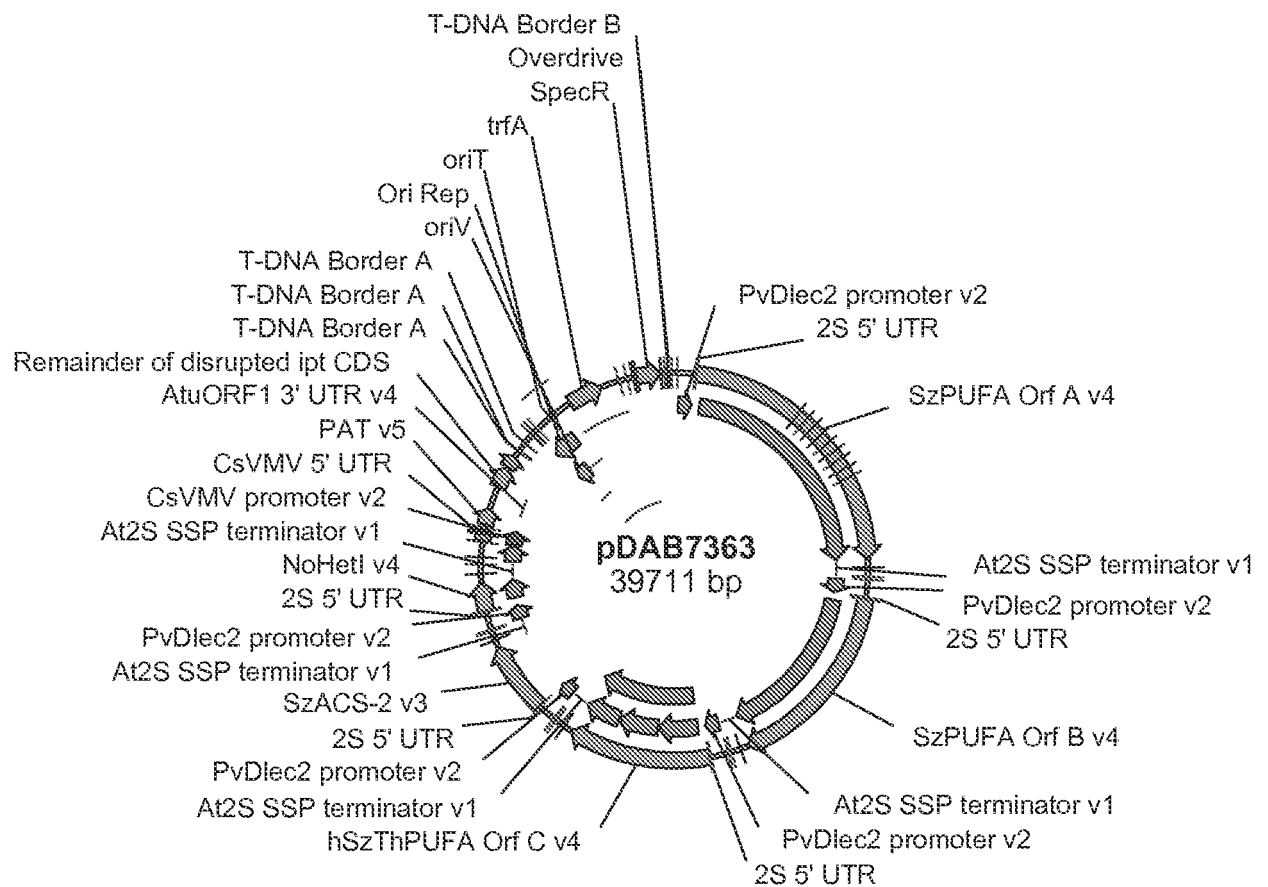


FIG. 4

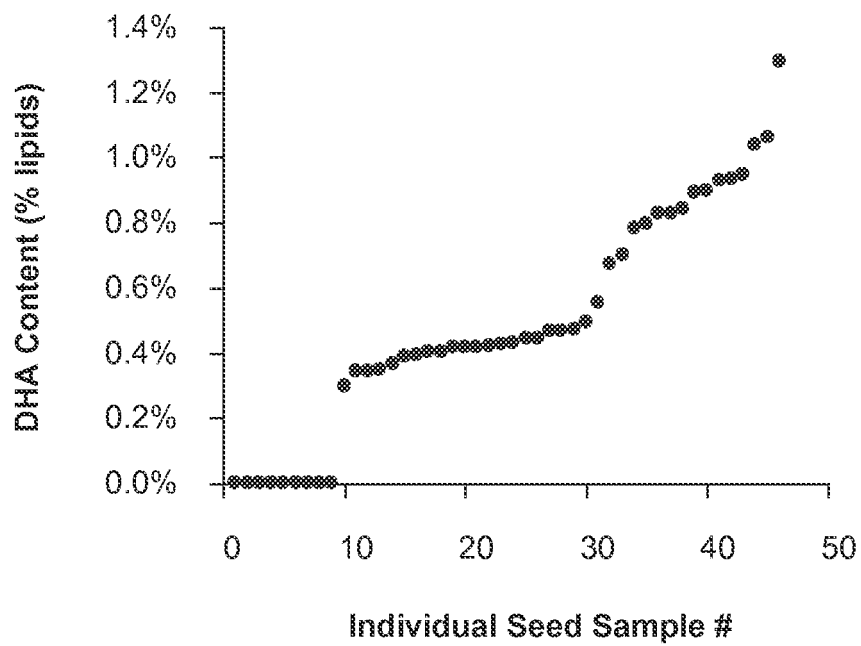


FIG. 5

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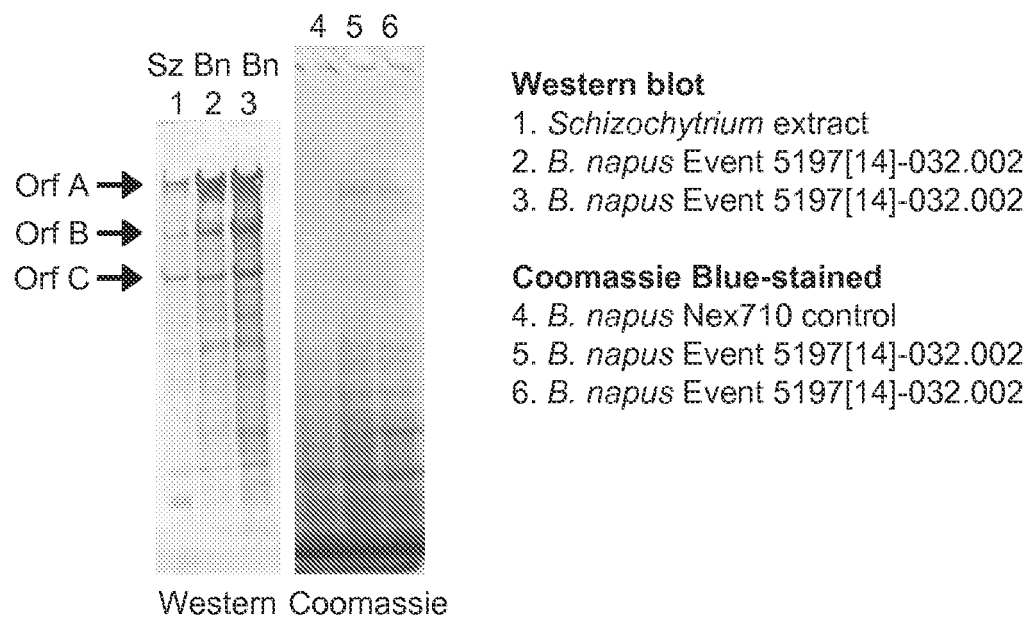


FIG. 6

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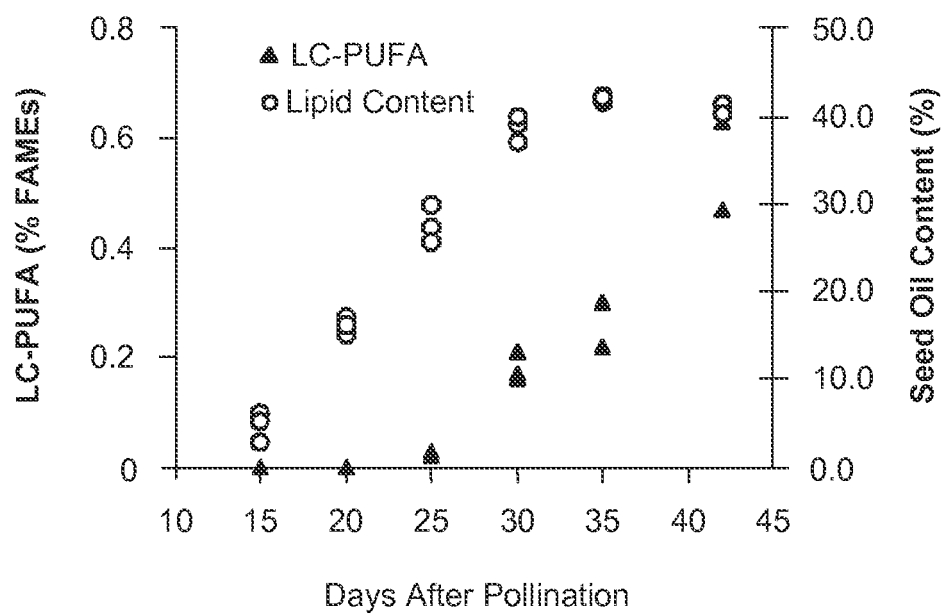
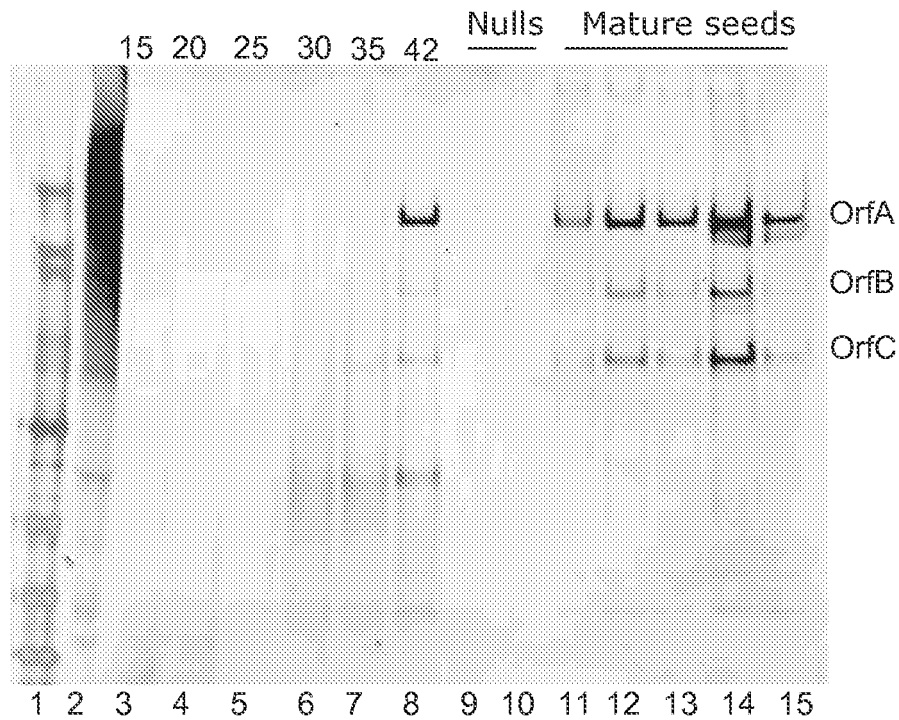


FIG. 7A

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Lane 1 Molecular Weight Marker
 Lane 2 *Schizochytrium* extract positive control
 Lane 3, 15 days after pollination (DAP)
 Lane 4 20 DAP
 Lane 5 25 DAP
 Lane 6 30 DAP
 Lane 7 35 DAP
 Lane 8 42 DAP
 Lane 9 15 DAP Null
 Lane 10 20 DAP Null
 Lane 11 5197-[14]-032.Sx002.Sx050.020 Mature
 Lane 12 5197-[14]-032.Sx002.Sx050.012 Mature
 Lane 13 5197-[14]-032.Sx002.Sx050.011 Mature
 Lane 14 5197-[14]-032.Sx002.Sx050.017 Mature
 Lane 15 5197-[14]-032.Sx002.Sx050.016 Mature

FIG. 7B

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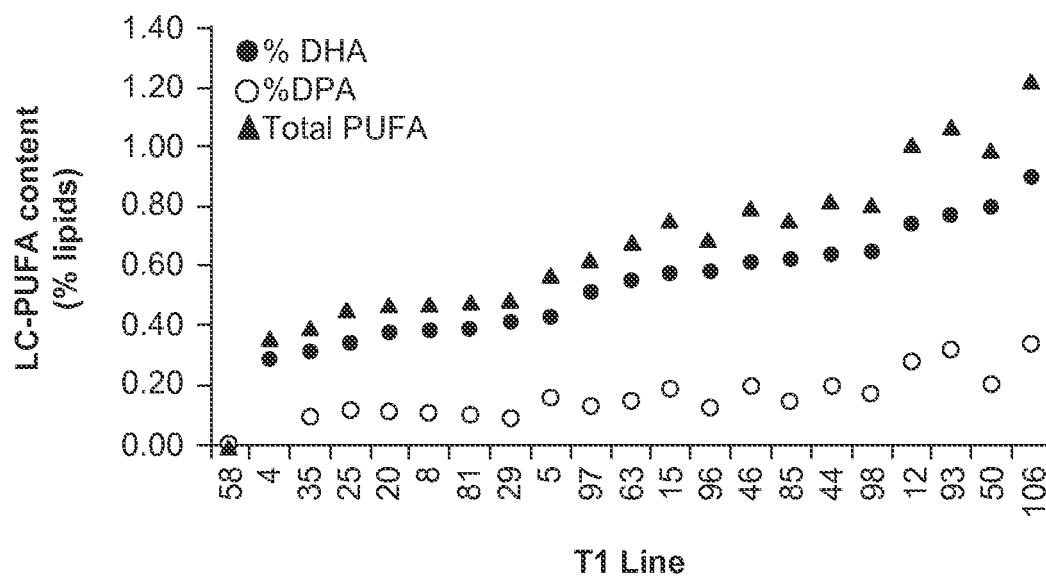


FIG. 8

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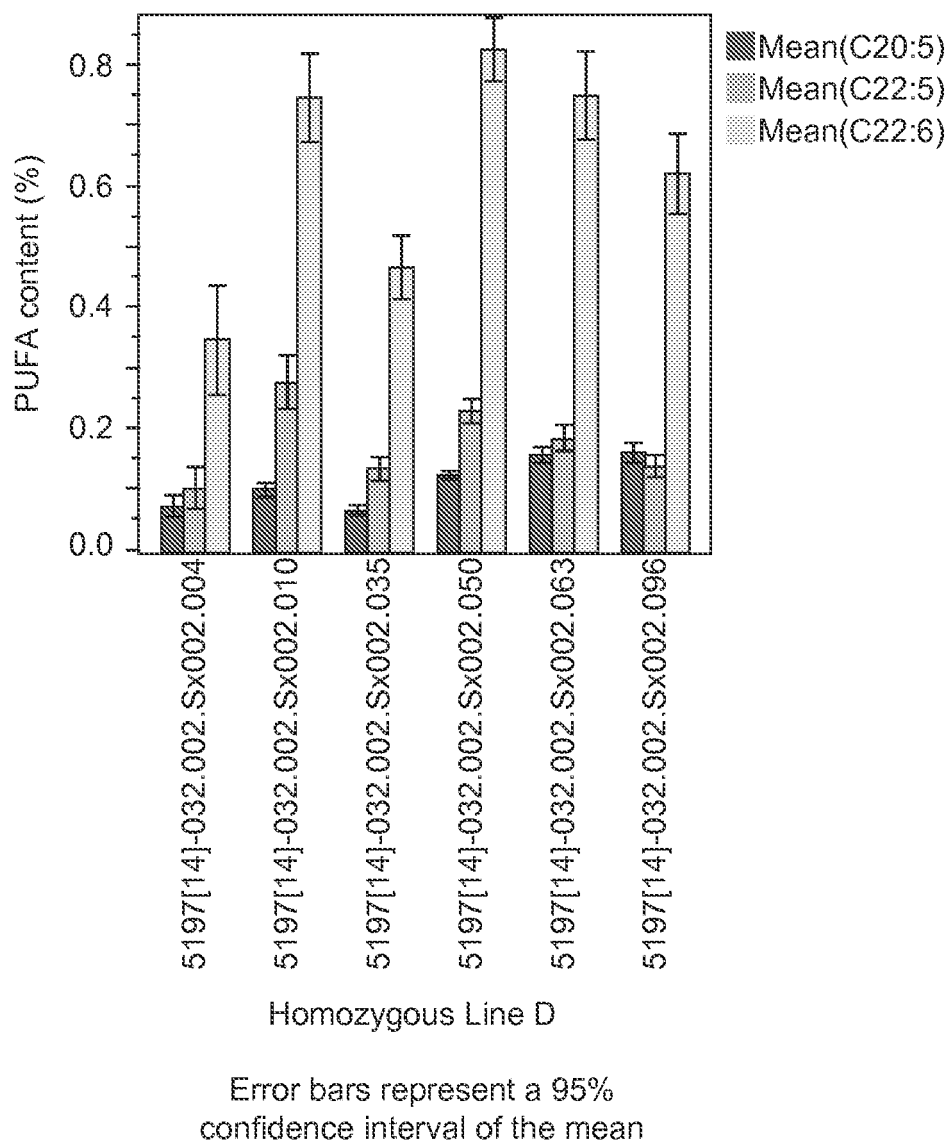


FIG. 9

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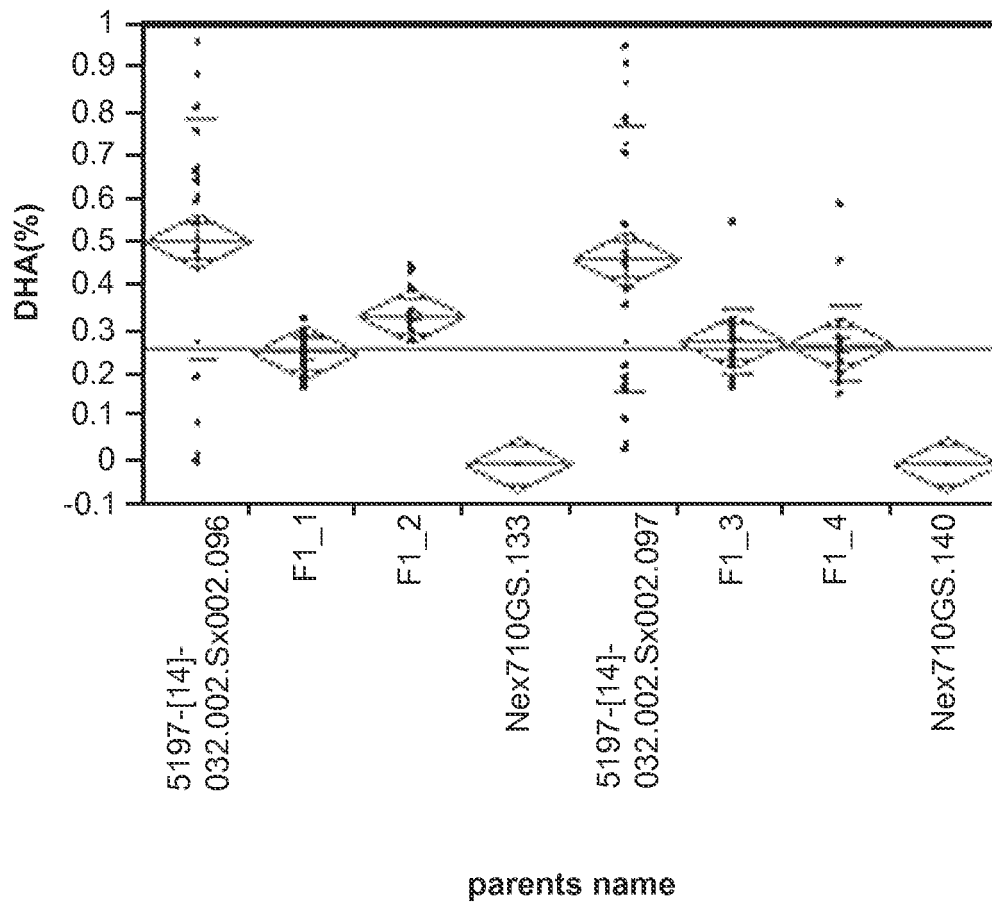


FIG. 10

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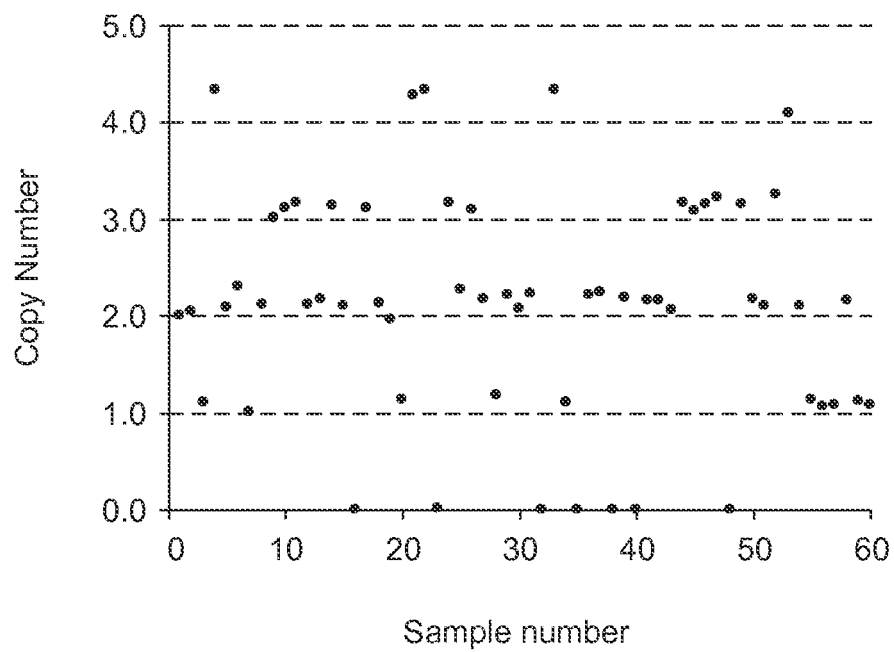


FIG. 11

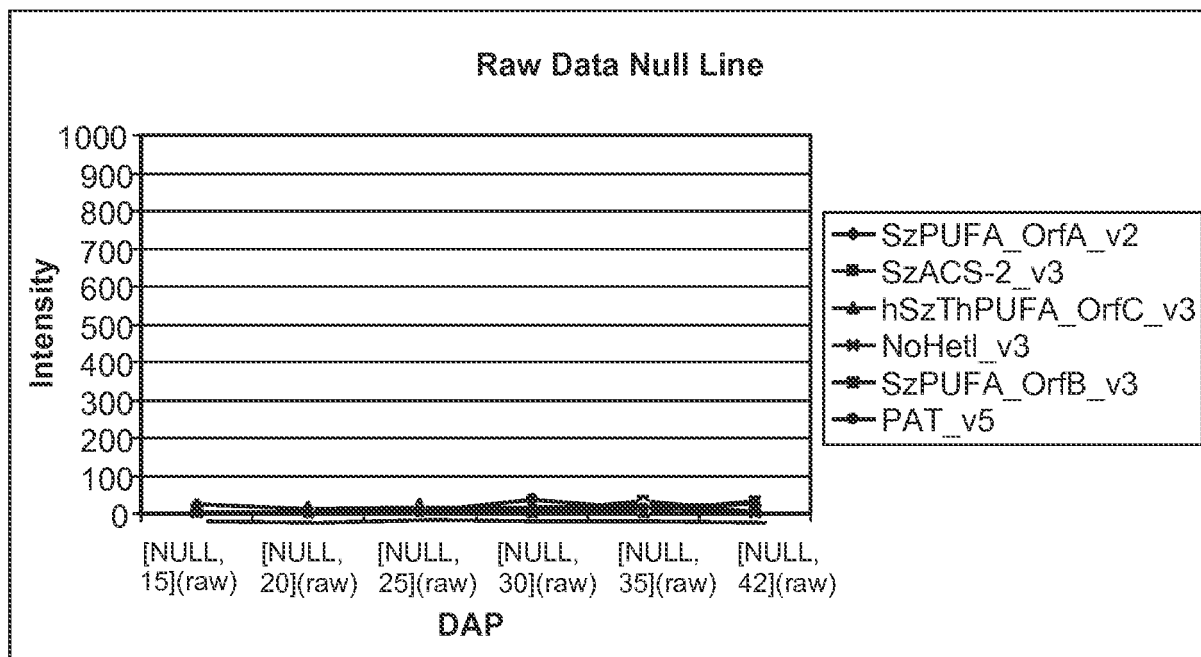
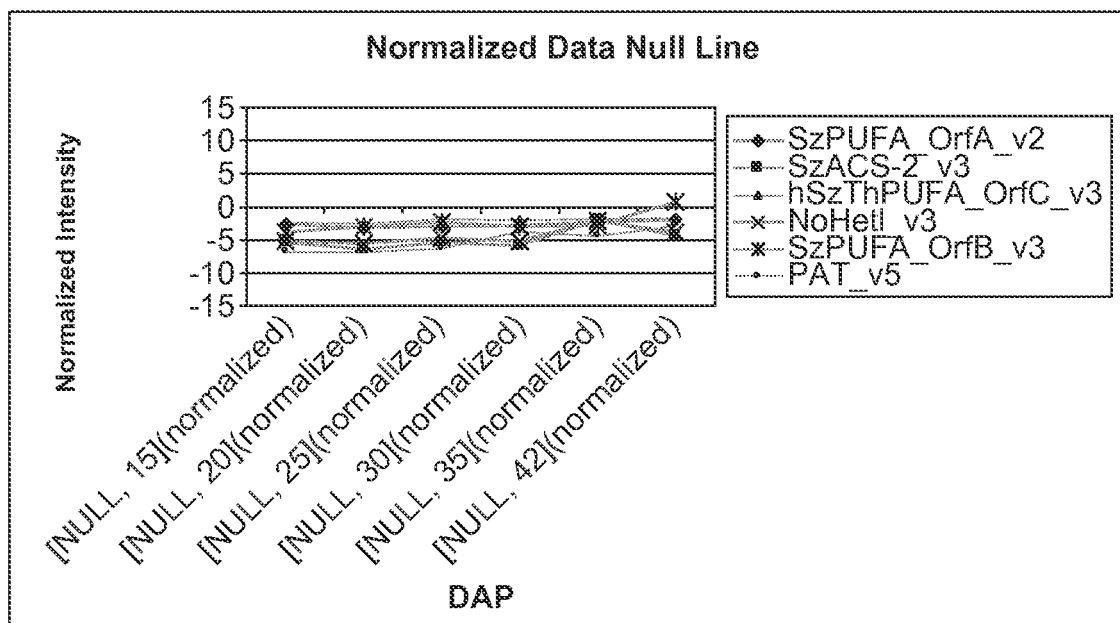
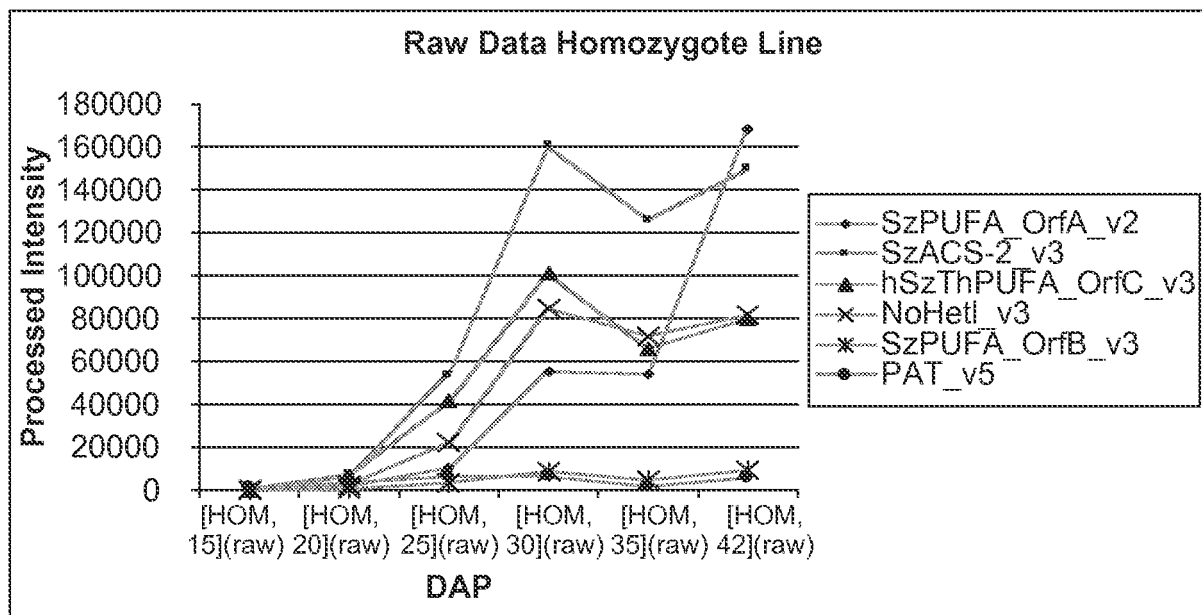
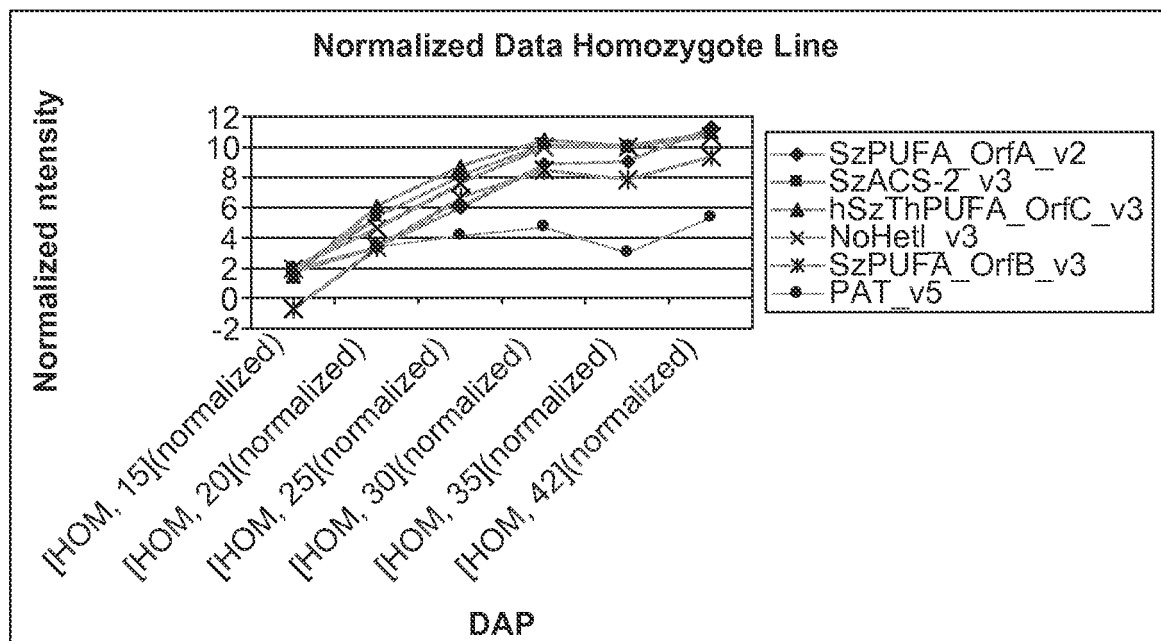


FIG. 12

**FIG. 13**

**FIG. 14**

**FIG. 15**

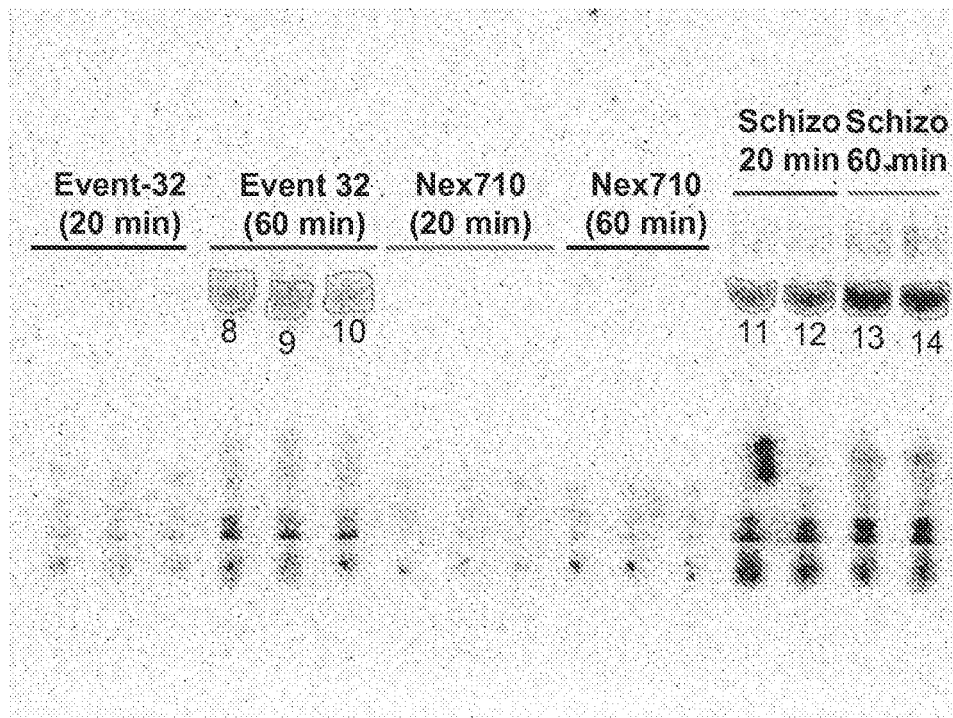


FIG. 16

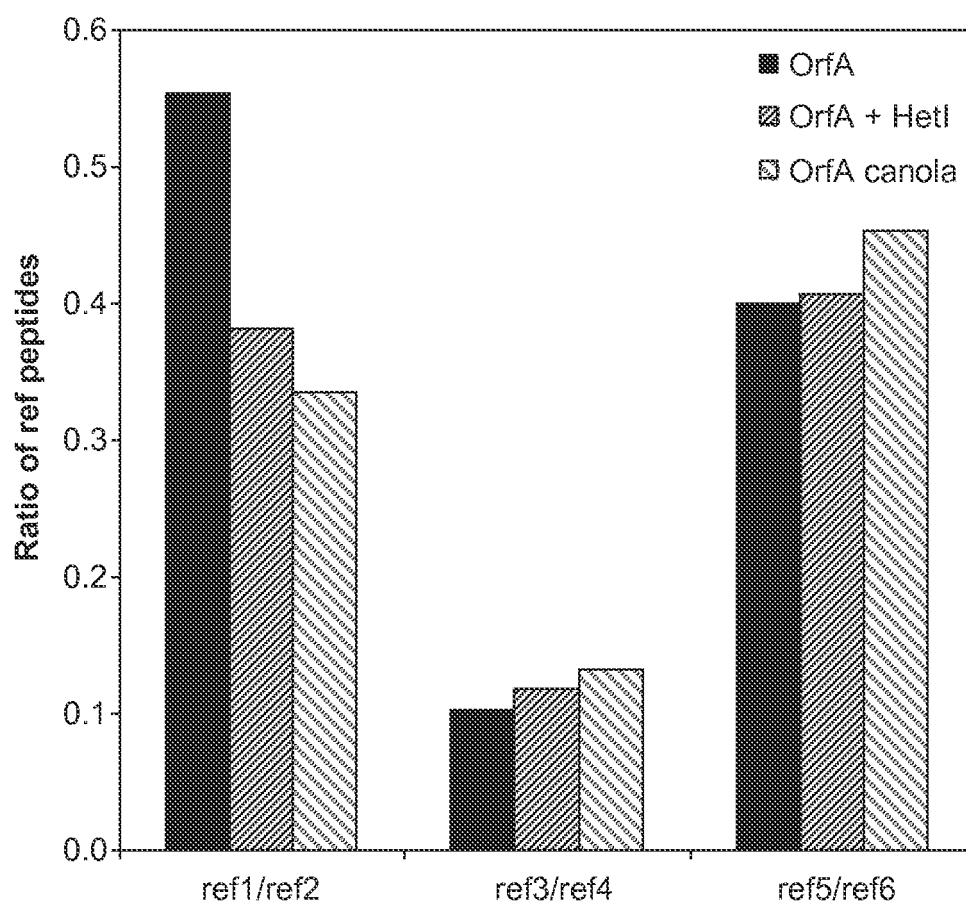


FIG. 17

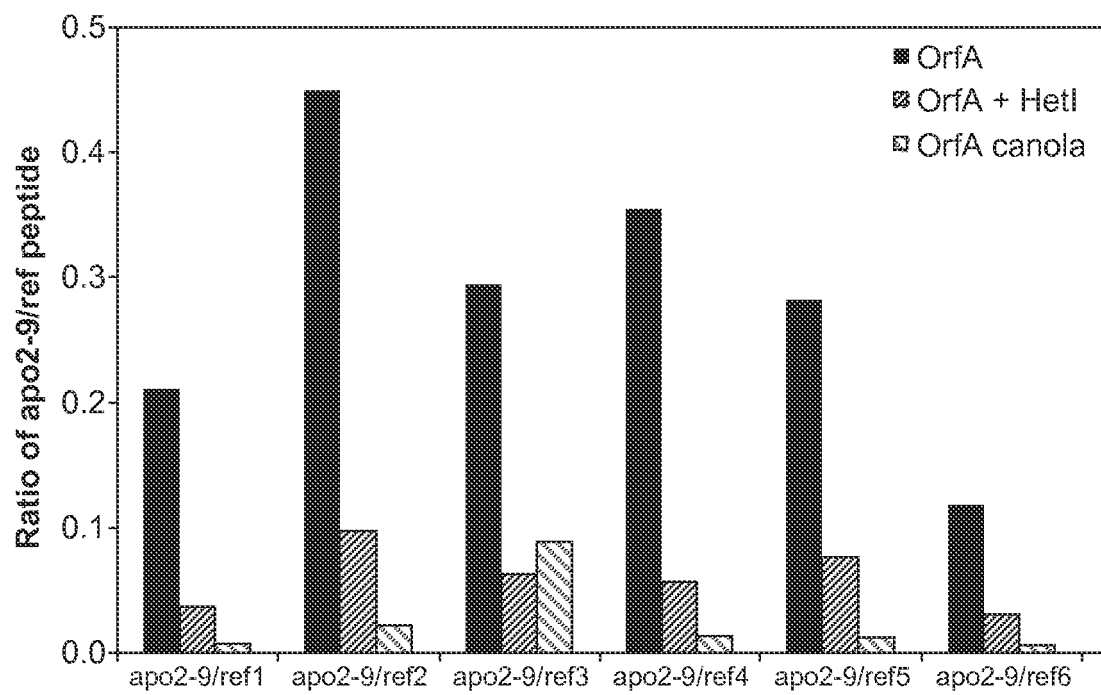


FIG. 18

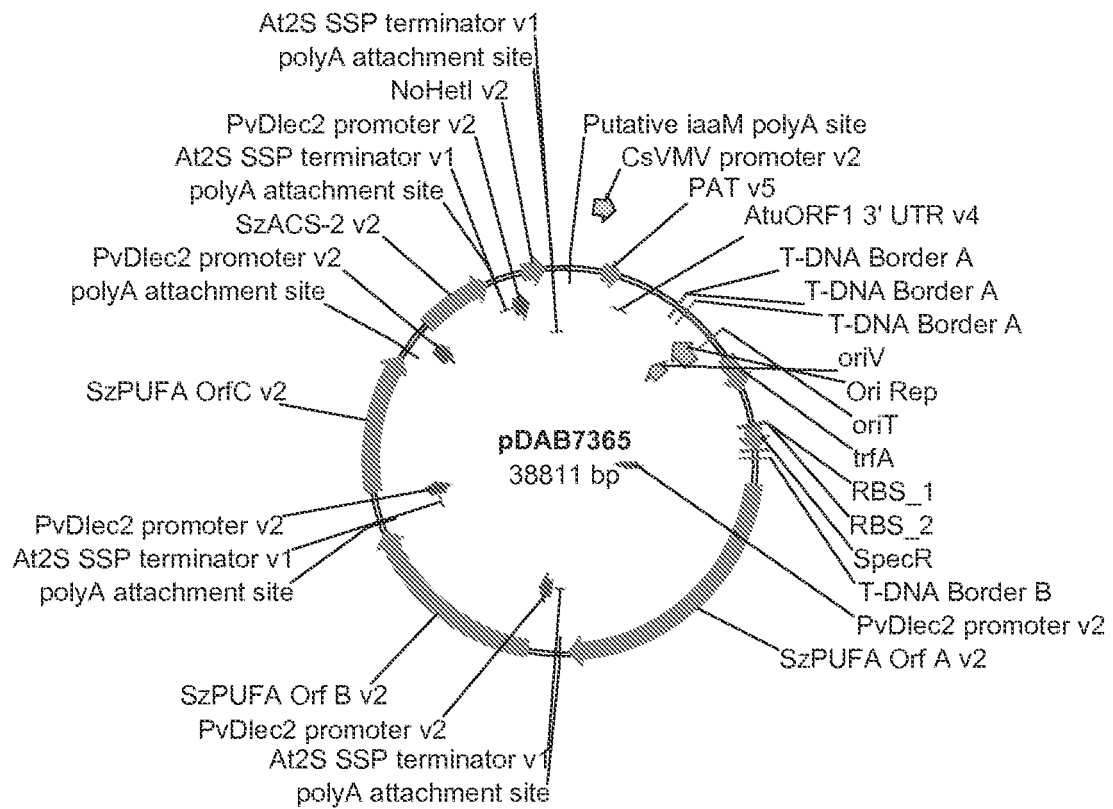
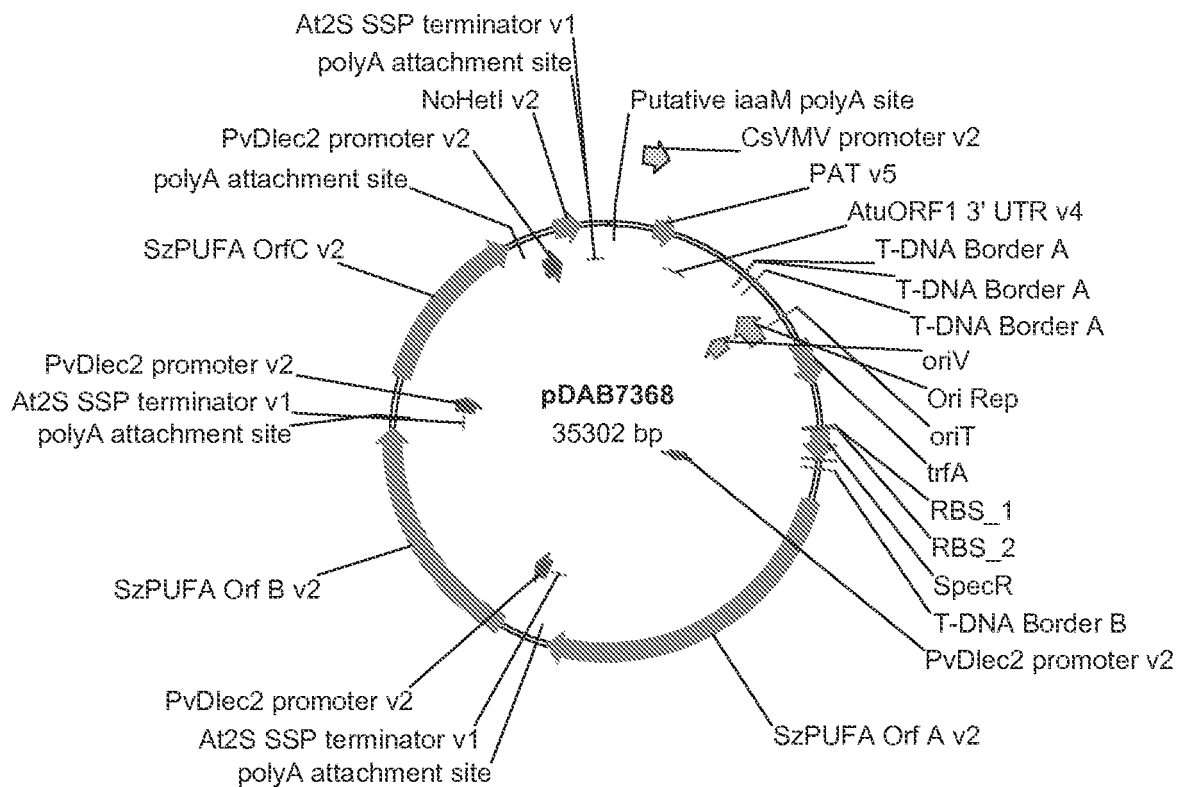


FIG. 19

**FIG. 20**

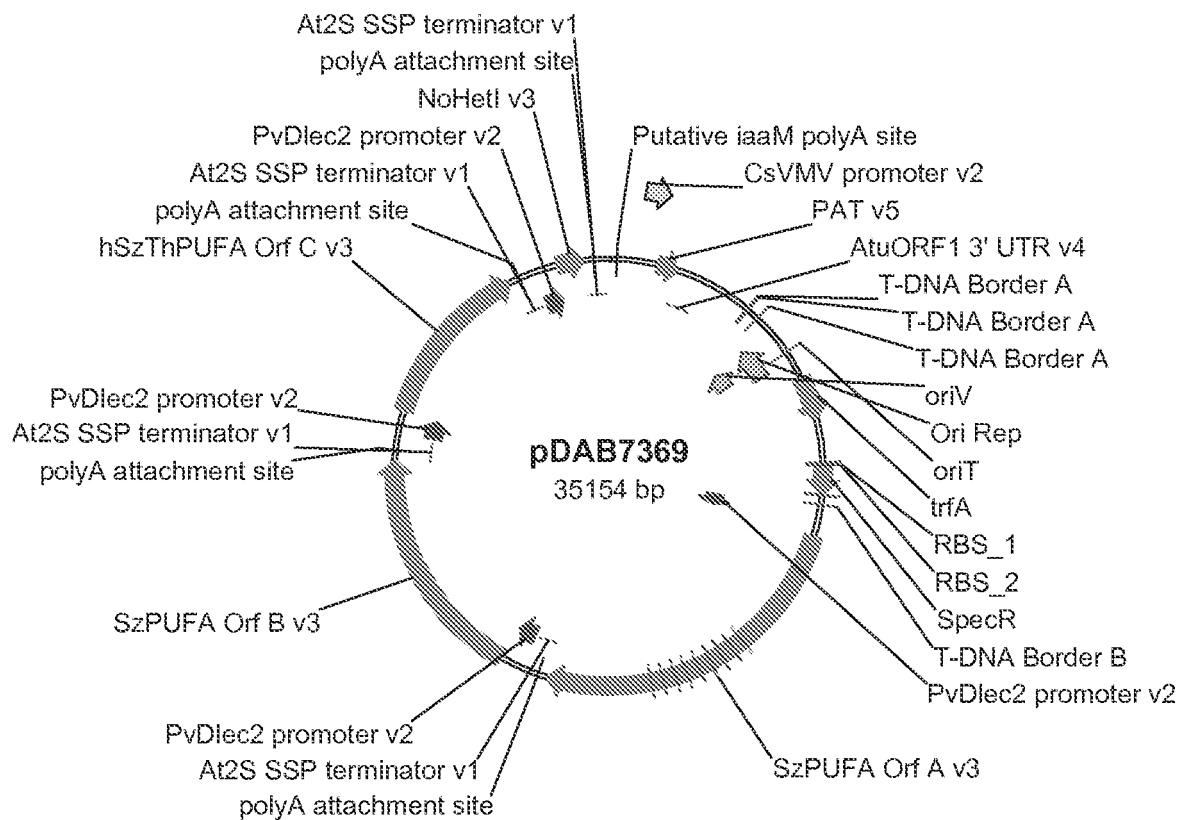


FIG. 21

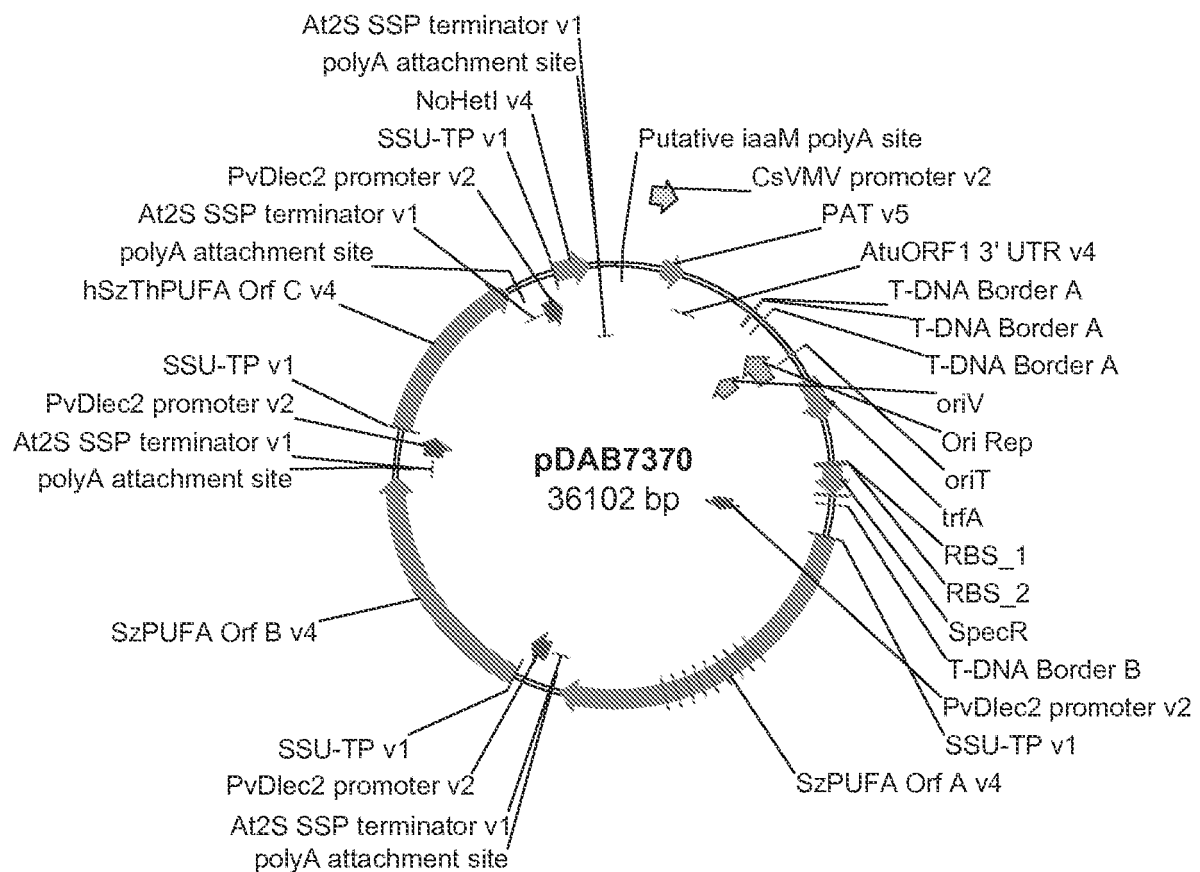


FIG. 22

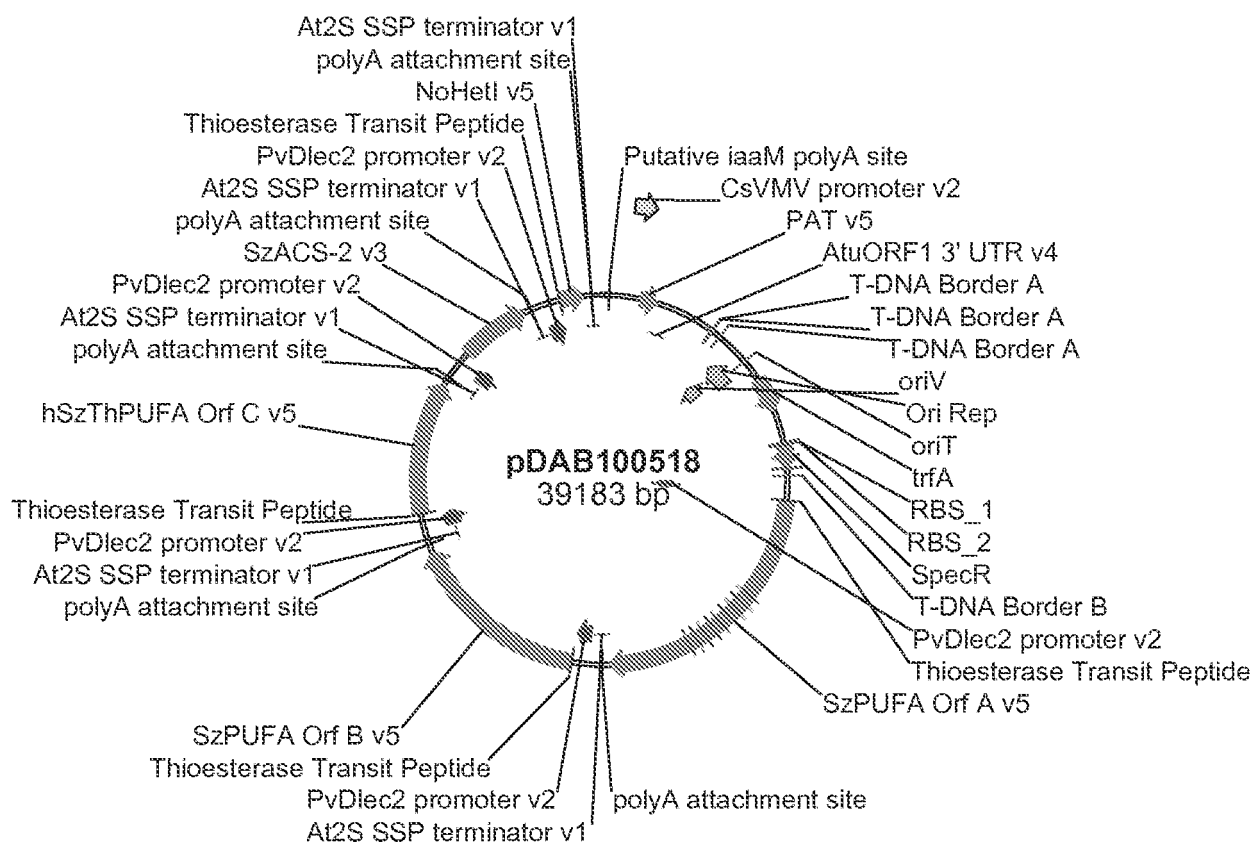


FIG. 23

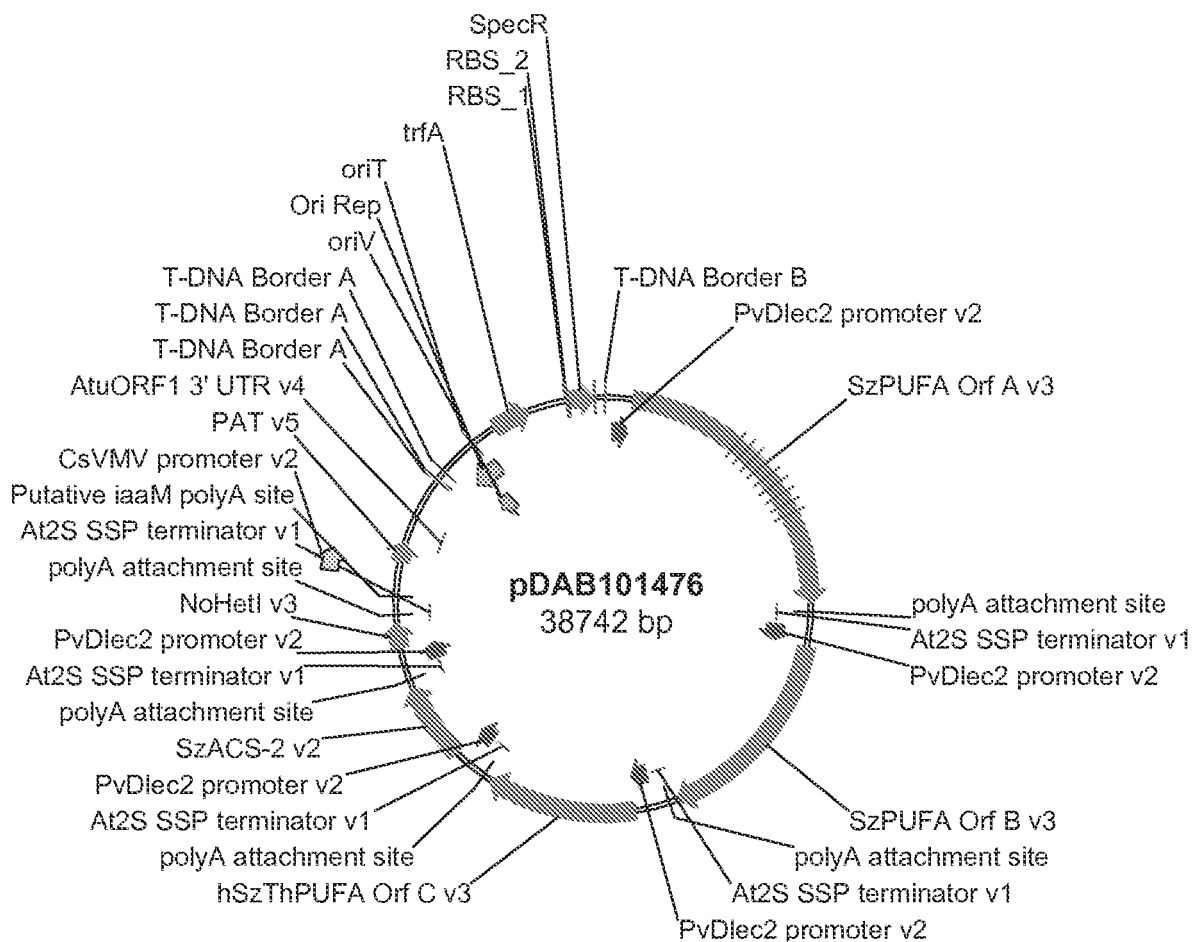


FIG. 24

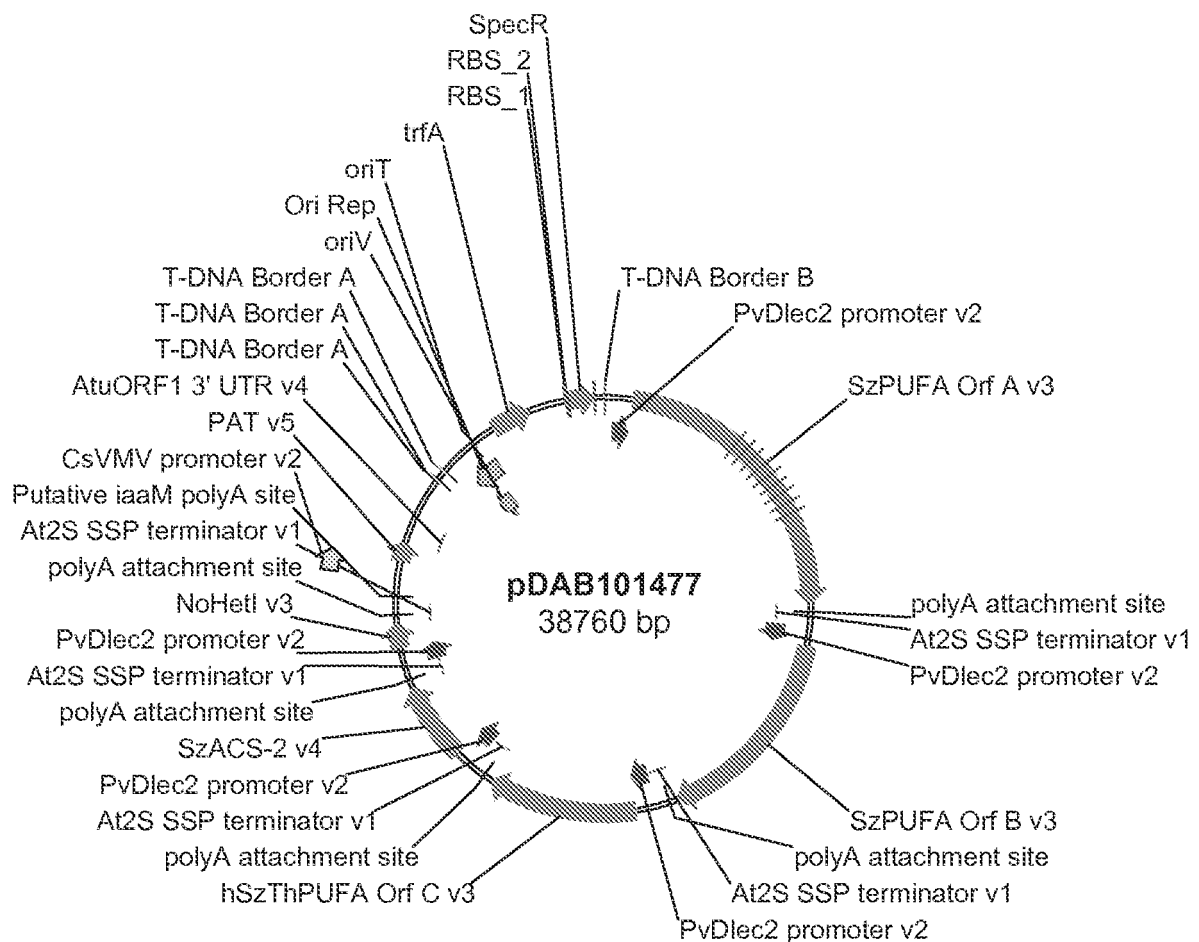


FIG. 25

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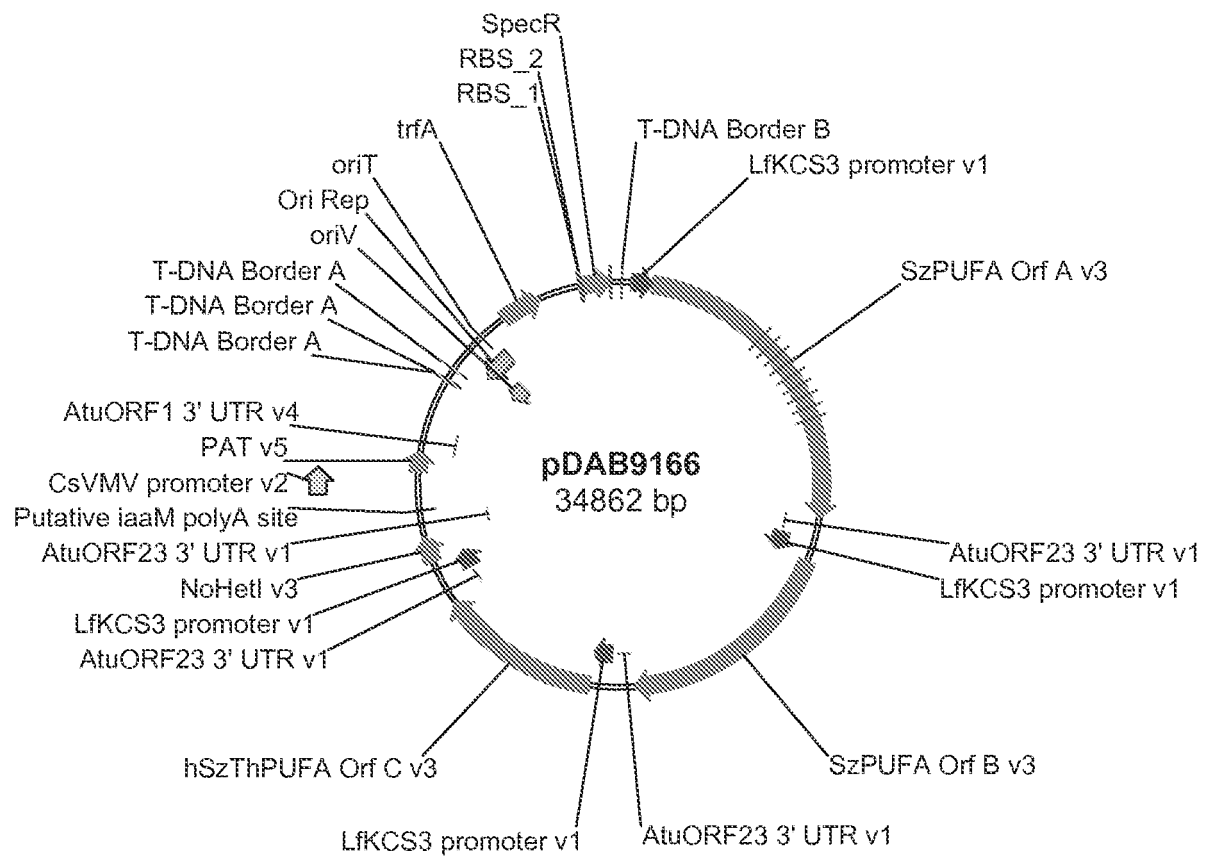


FIG. 26

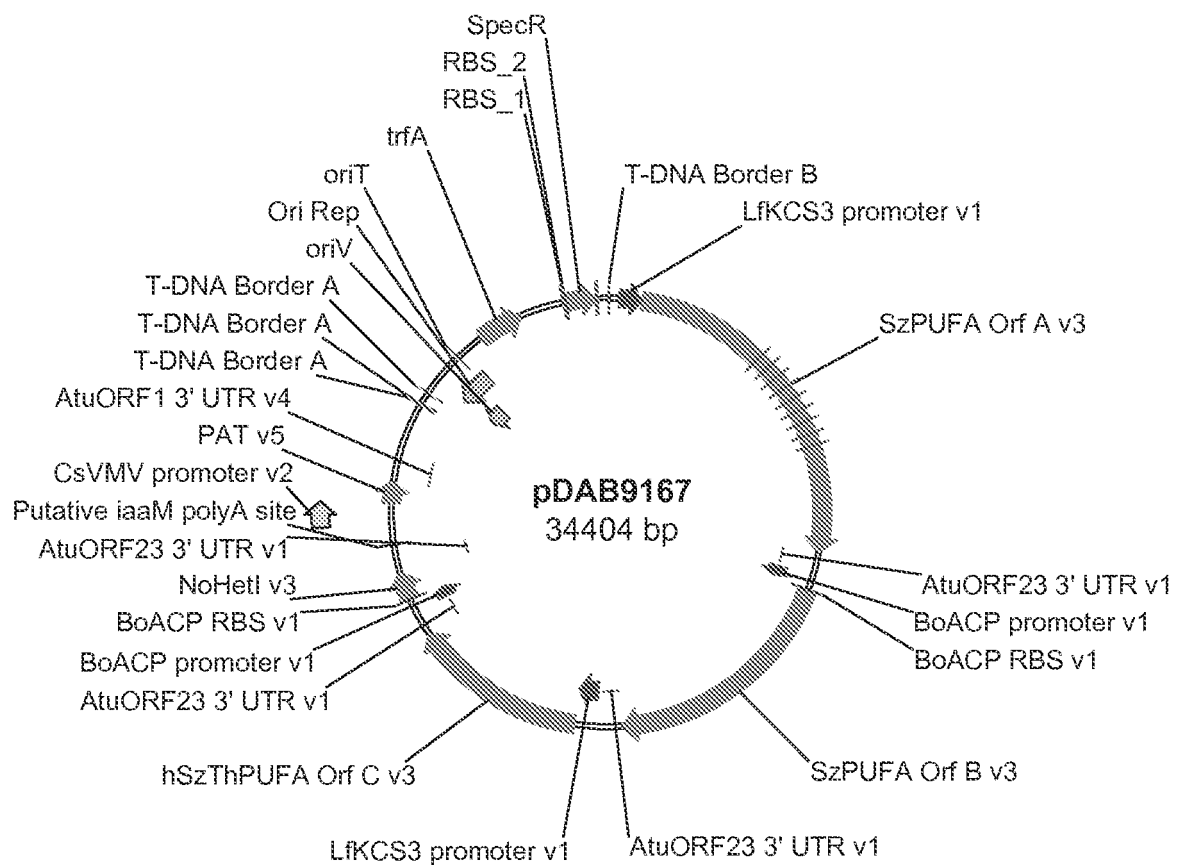


FIG. 27

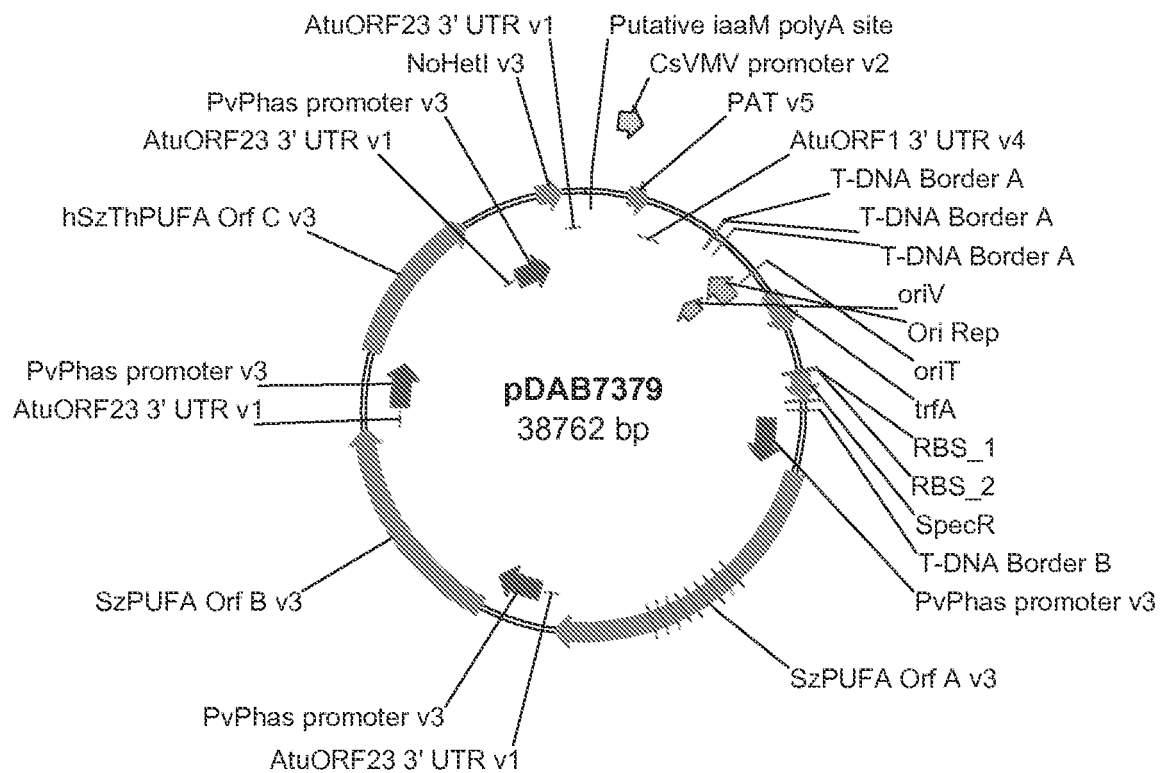
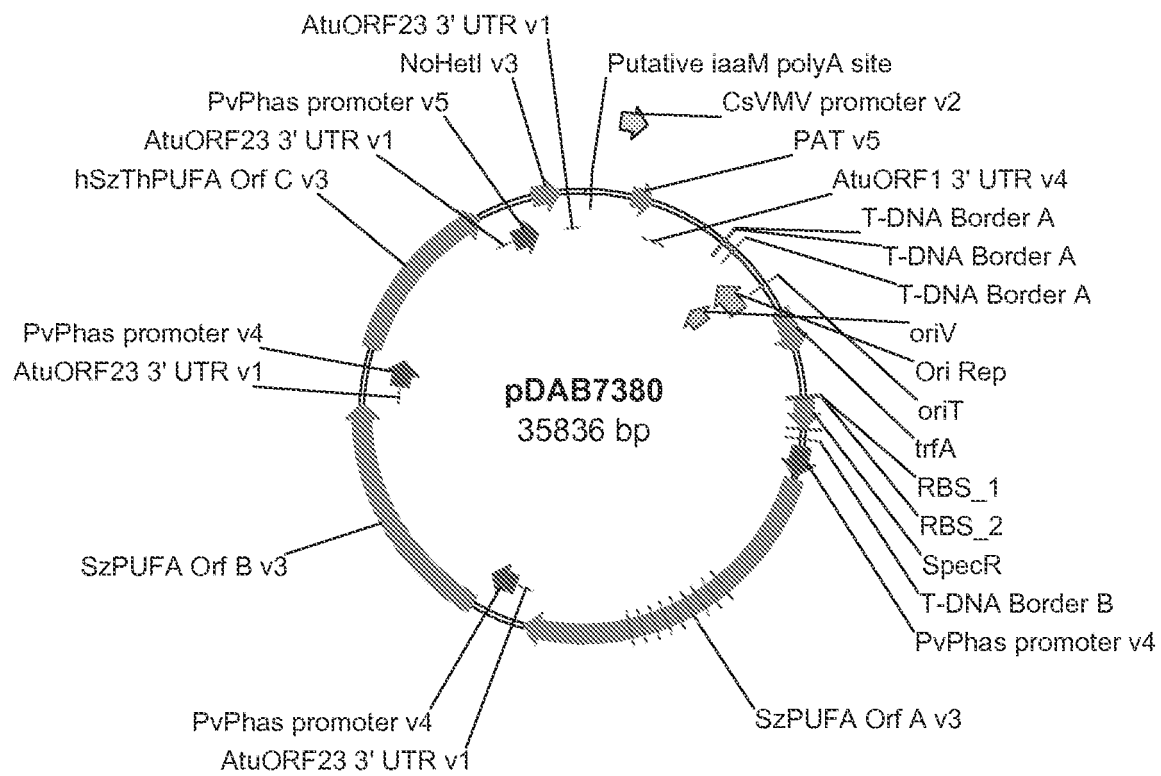


FIG. 28

**FIG. 29**

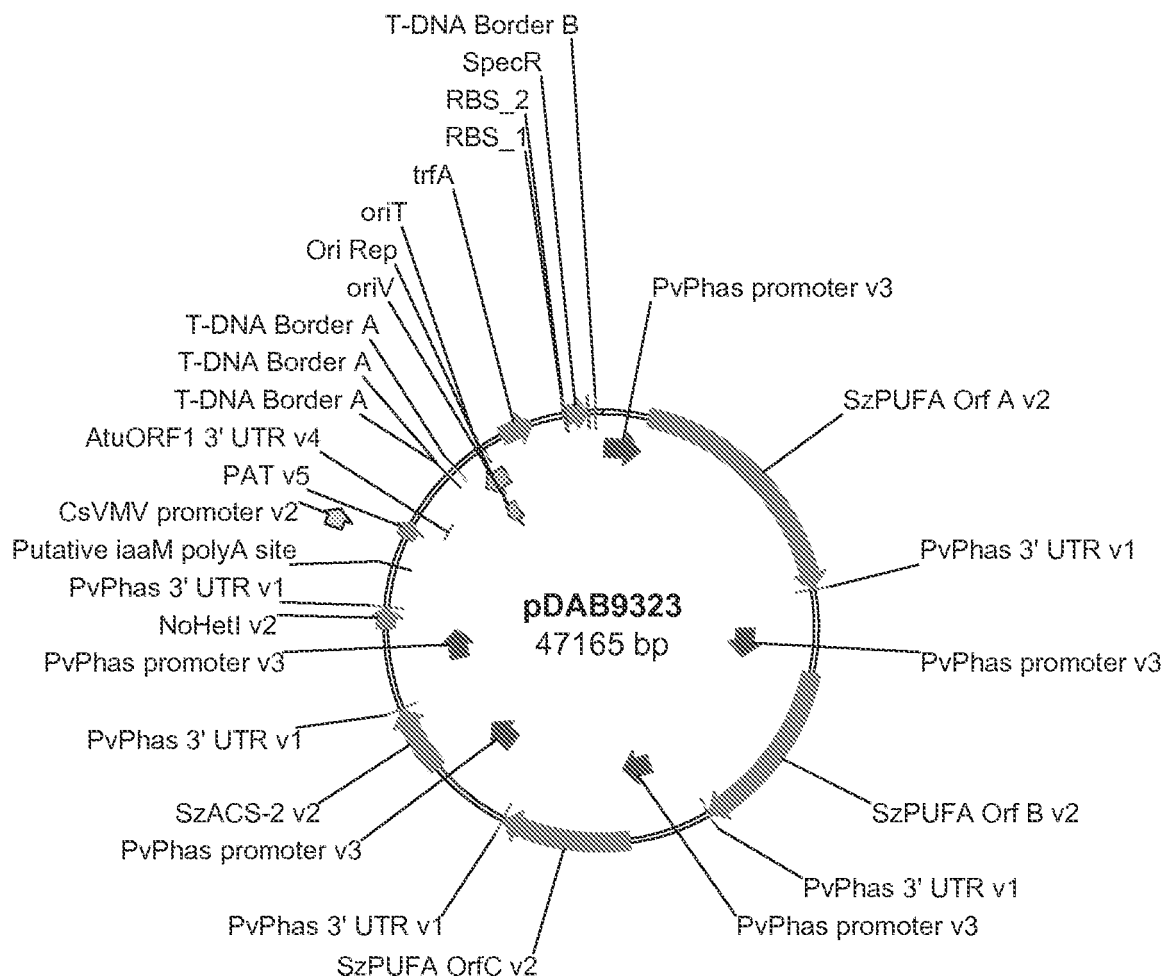


FIG. 30

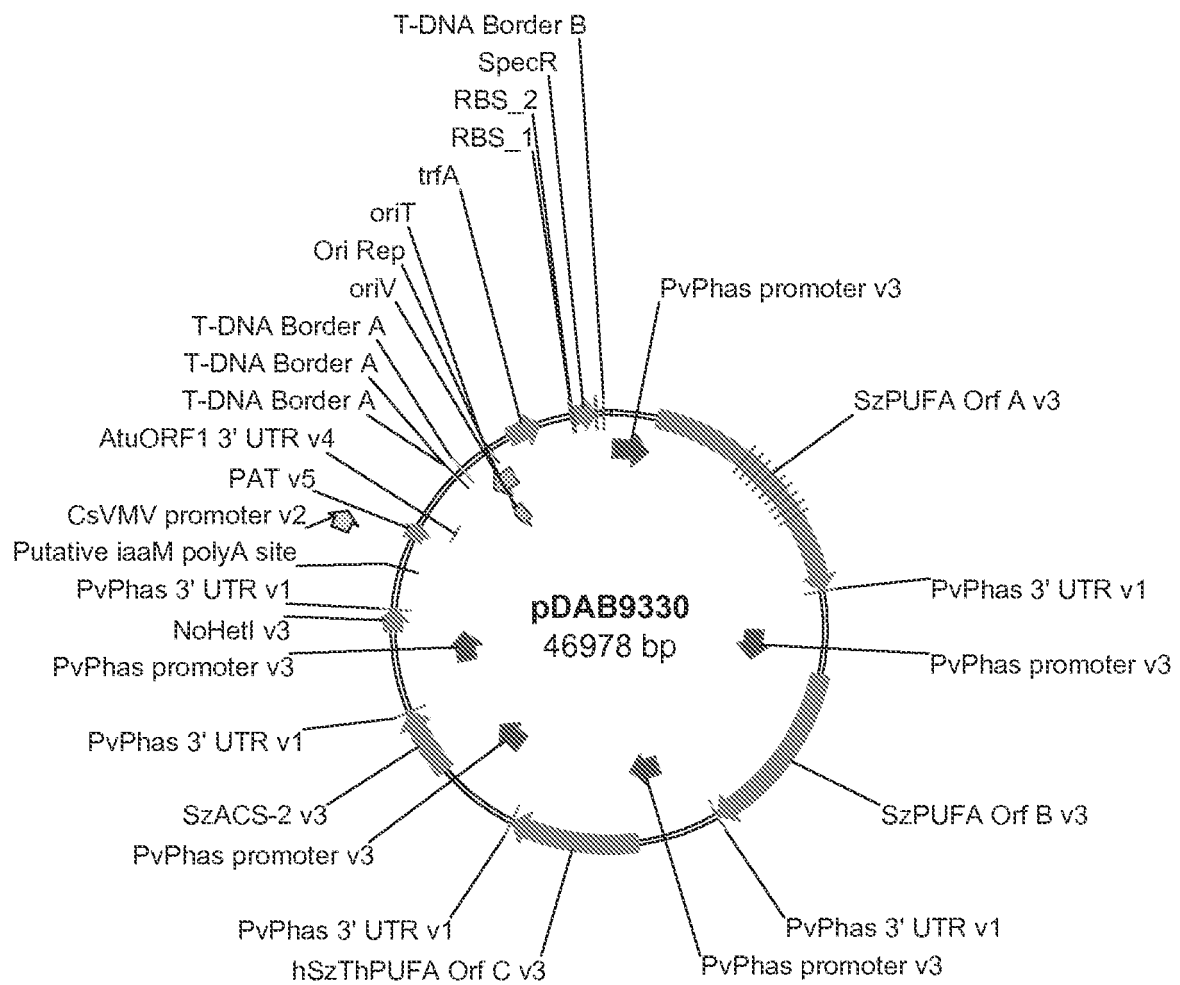


FIG. 31

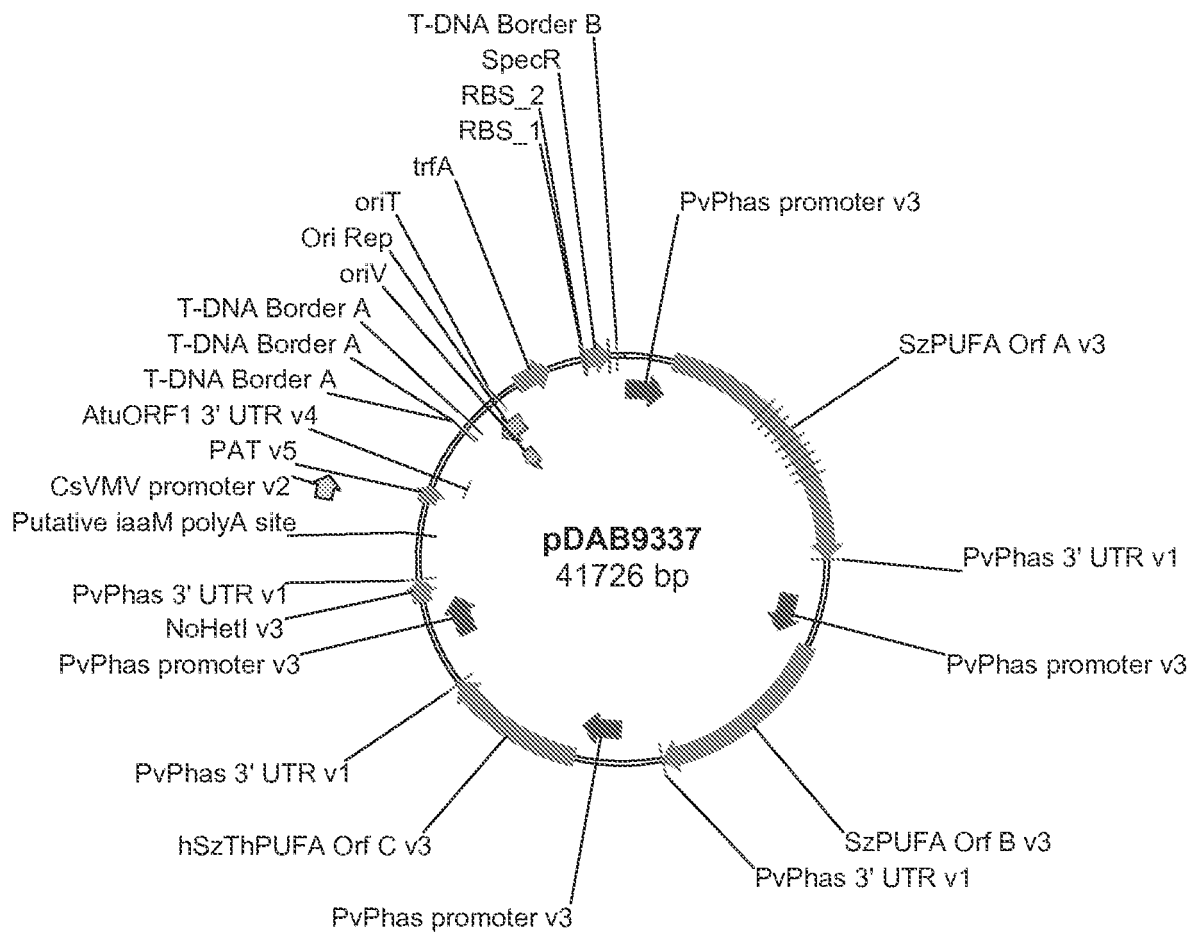
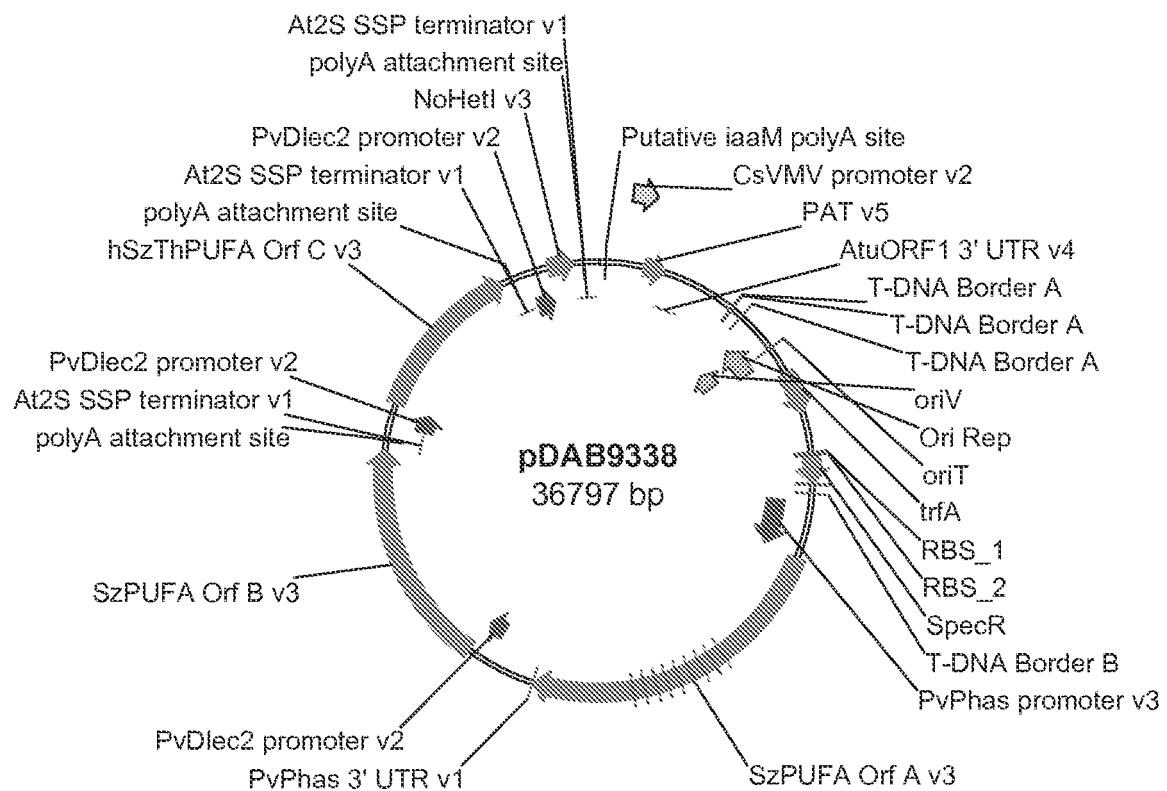
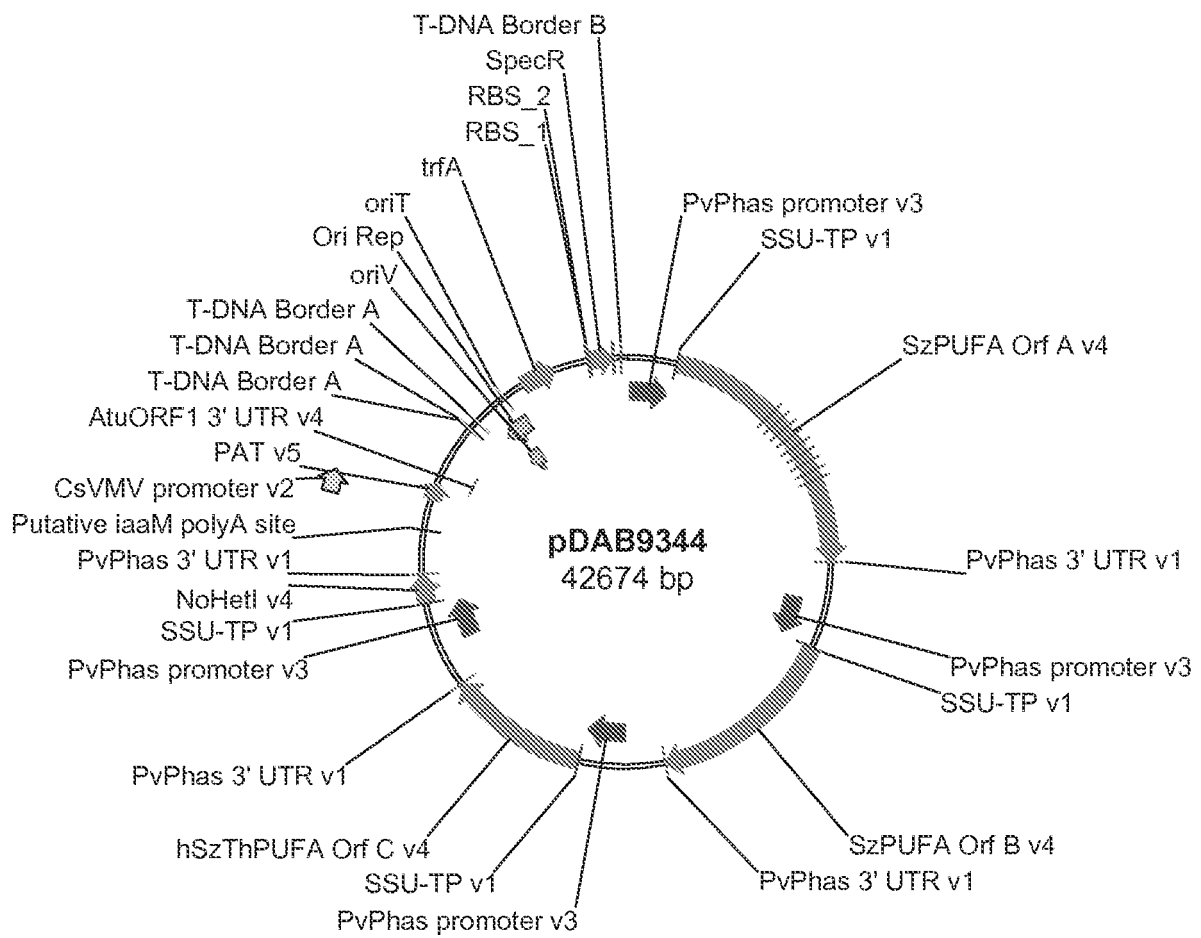


FIG. 32

**FIG. 33**

**FIG. 34**

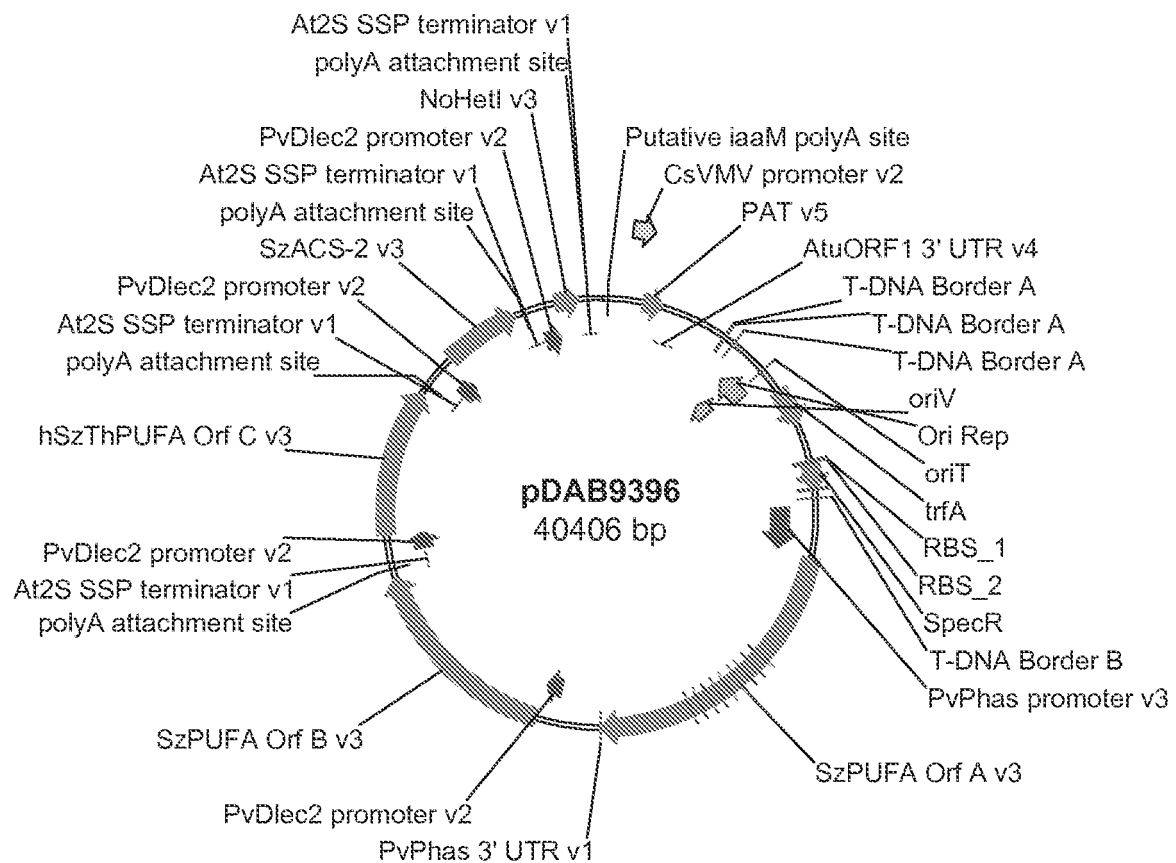
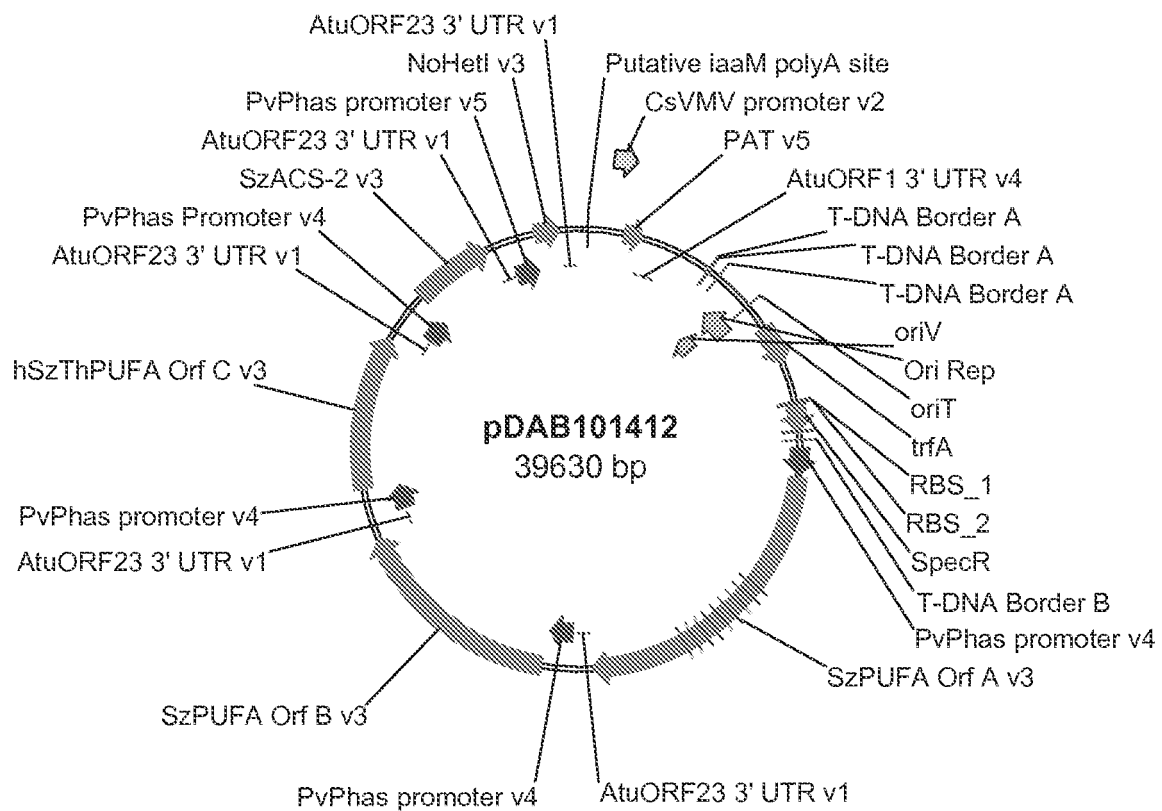


FIG. 35

**FIG. 36**

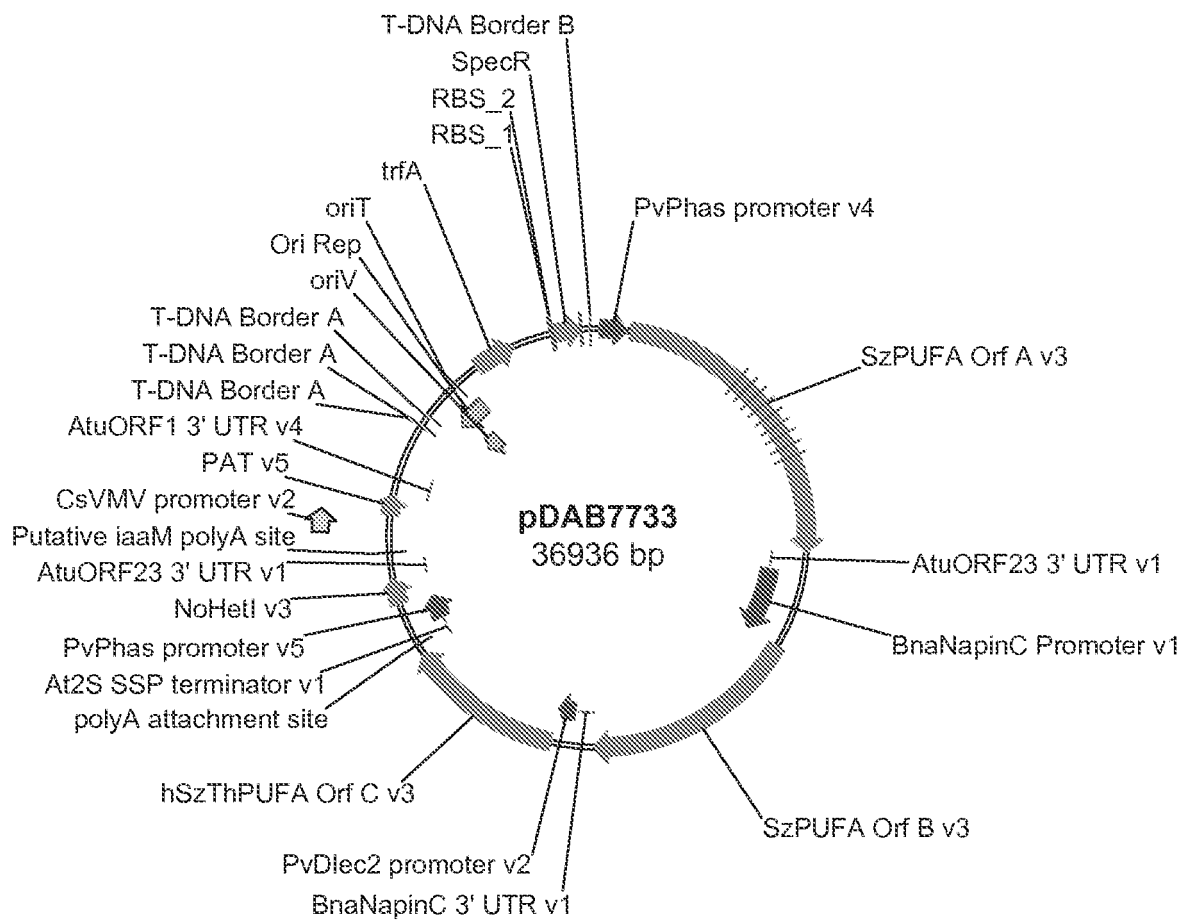


FIG. 37

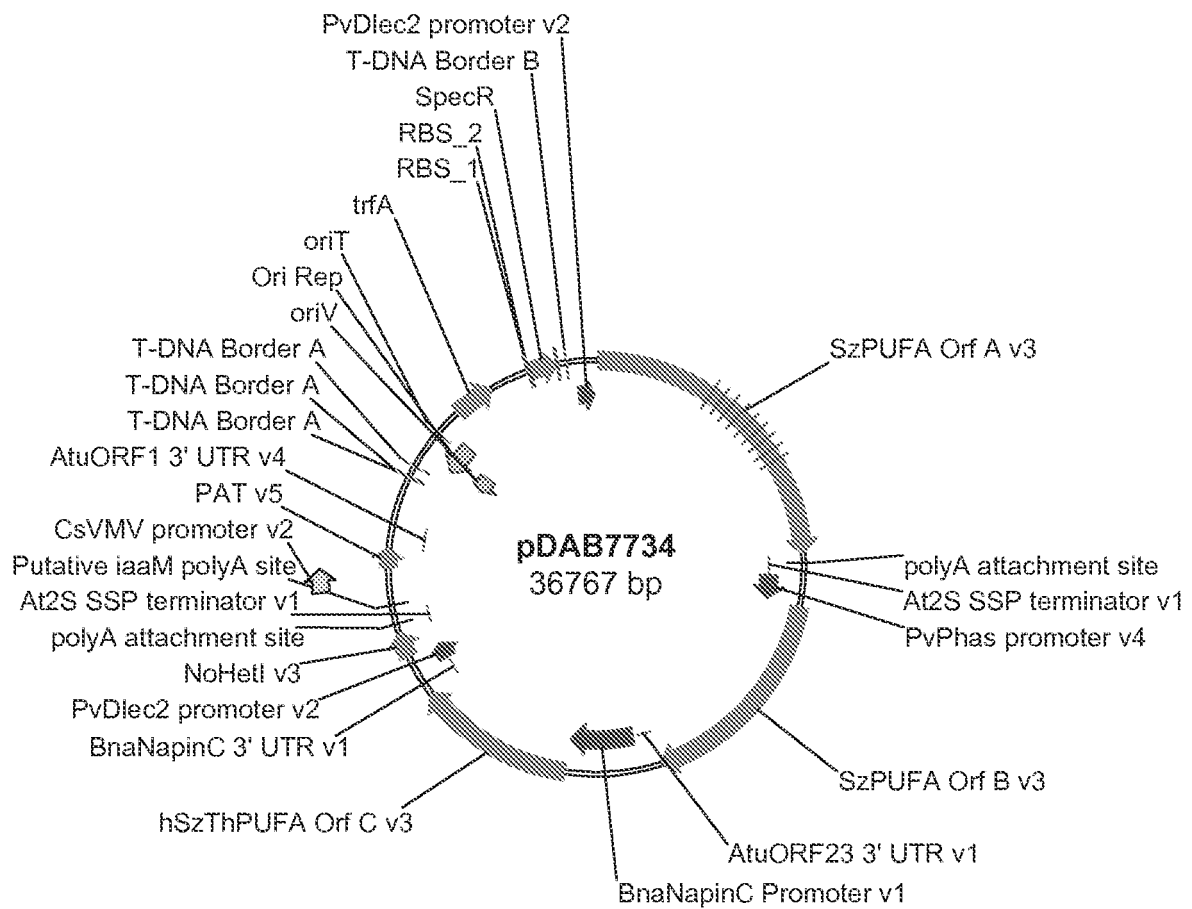


FIG. 38

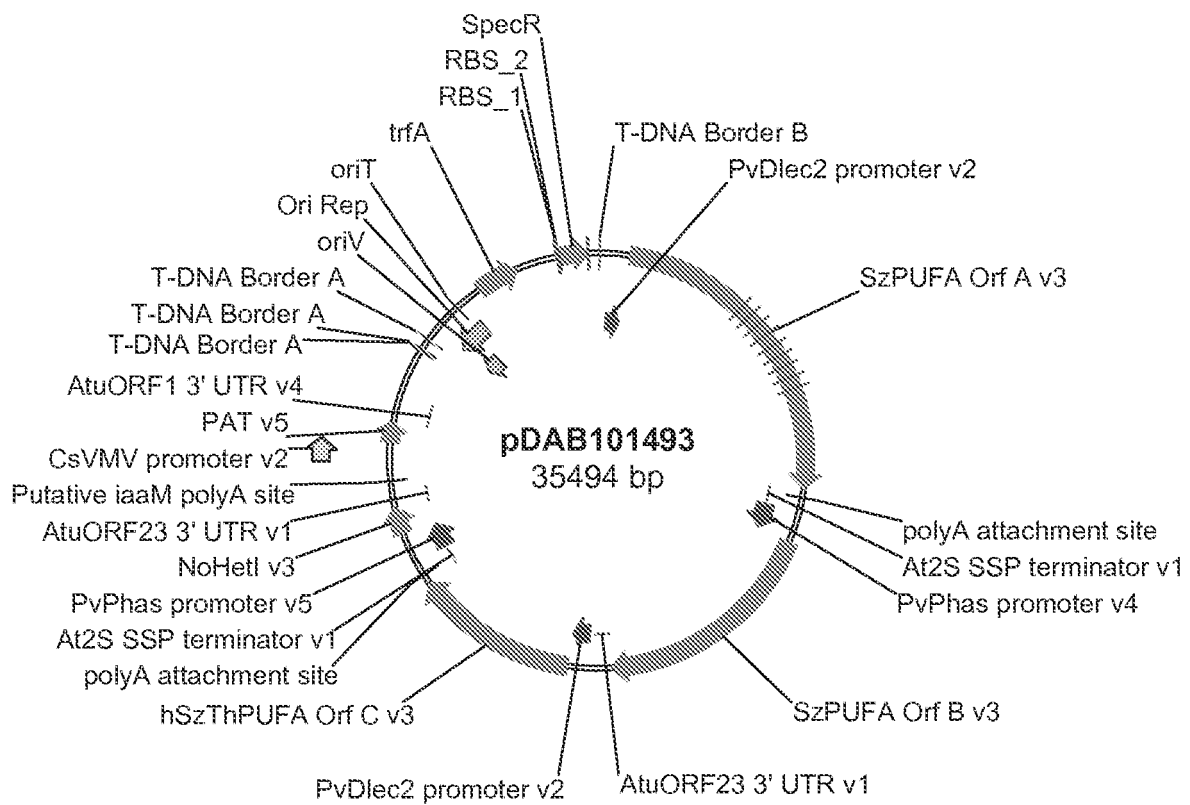


FIG. 39

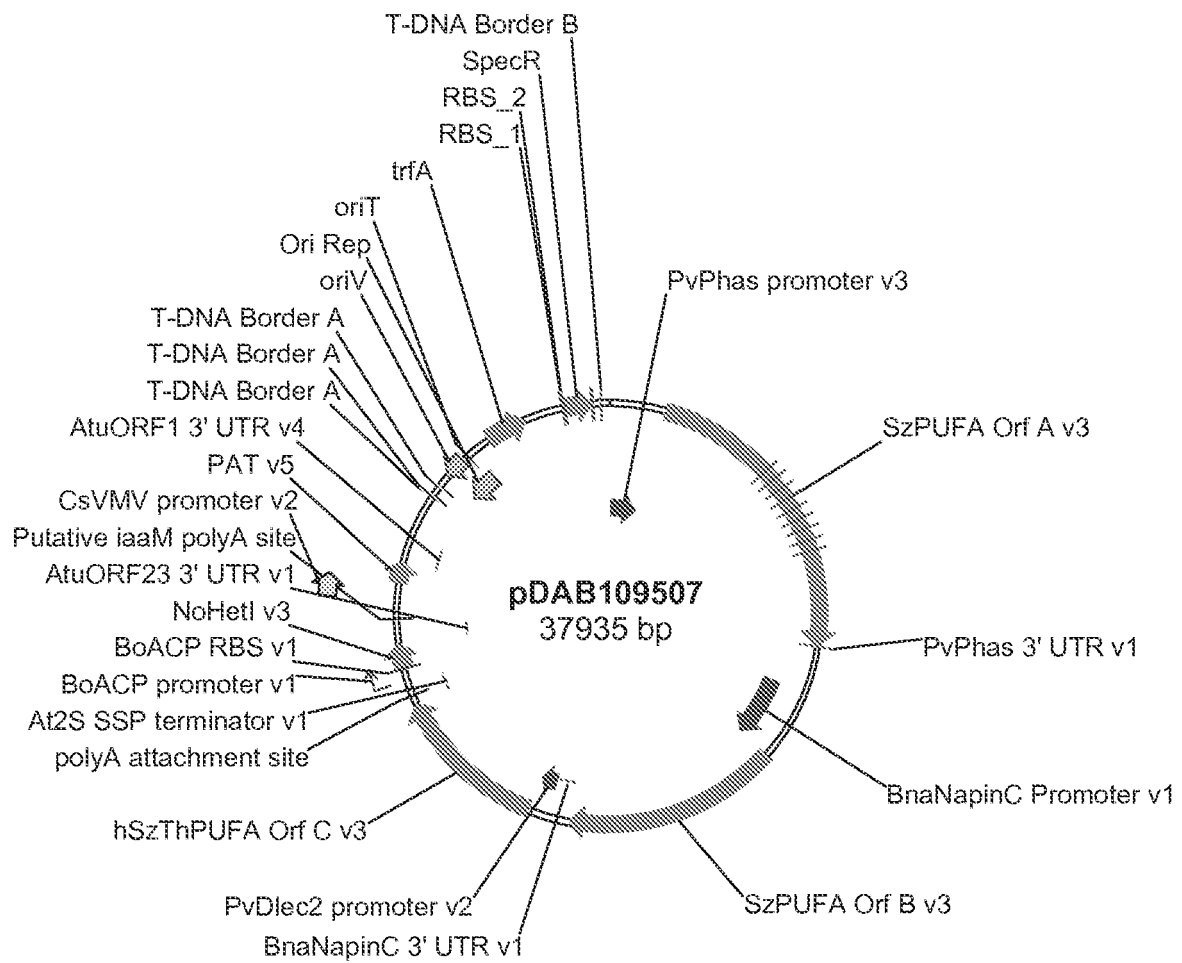


FIG. 40

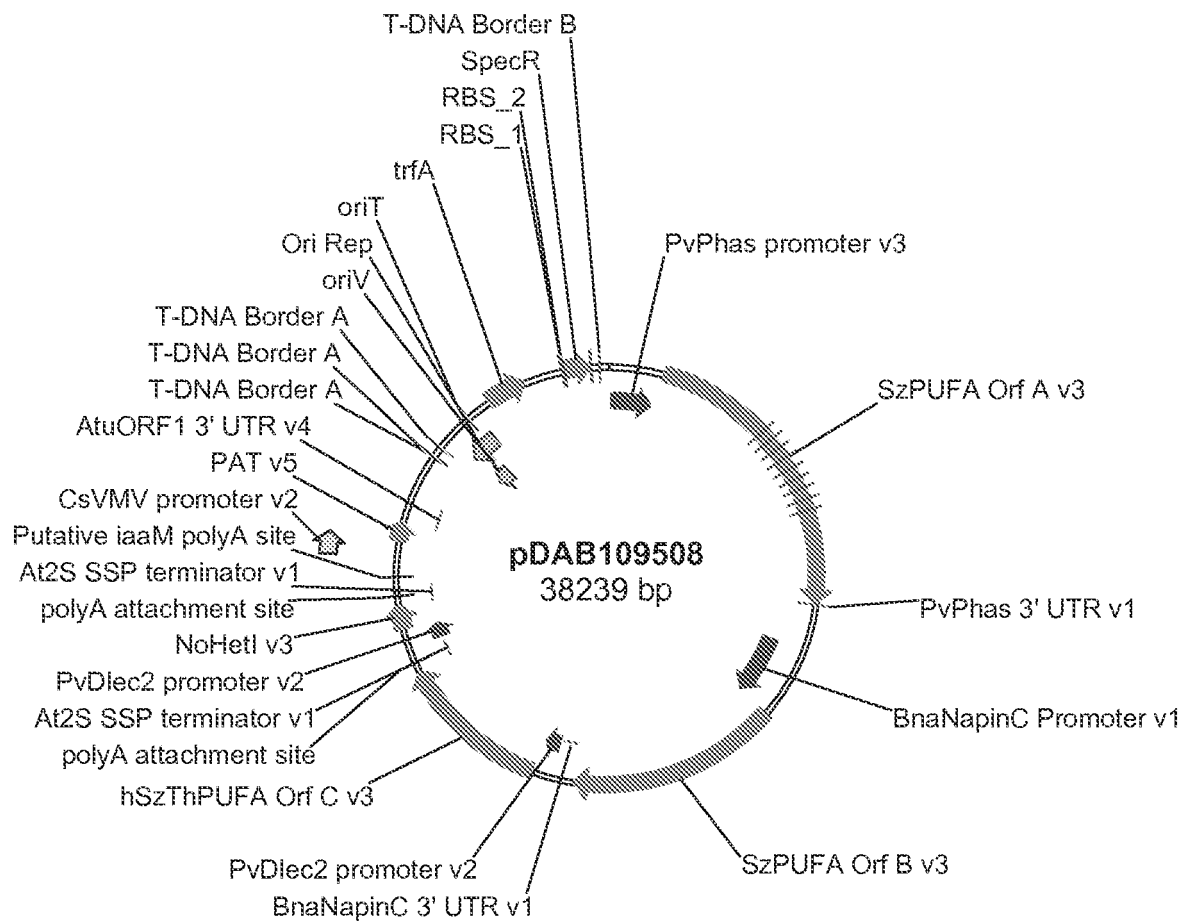


FIG. 41

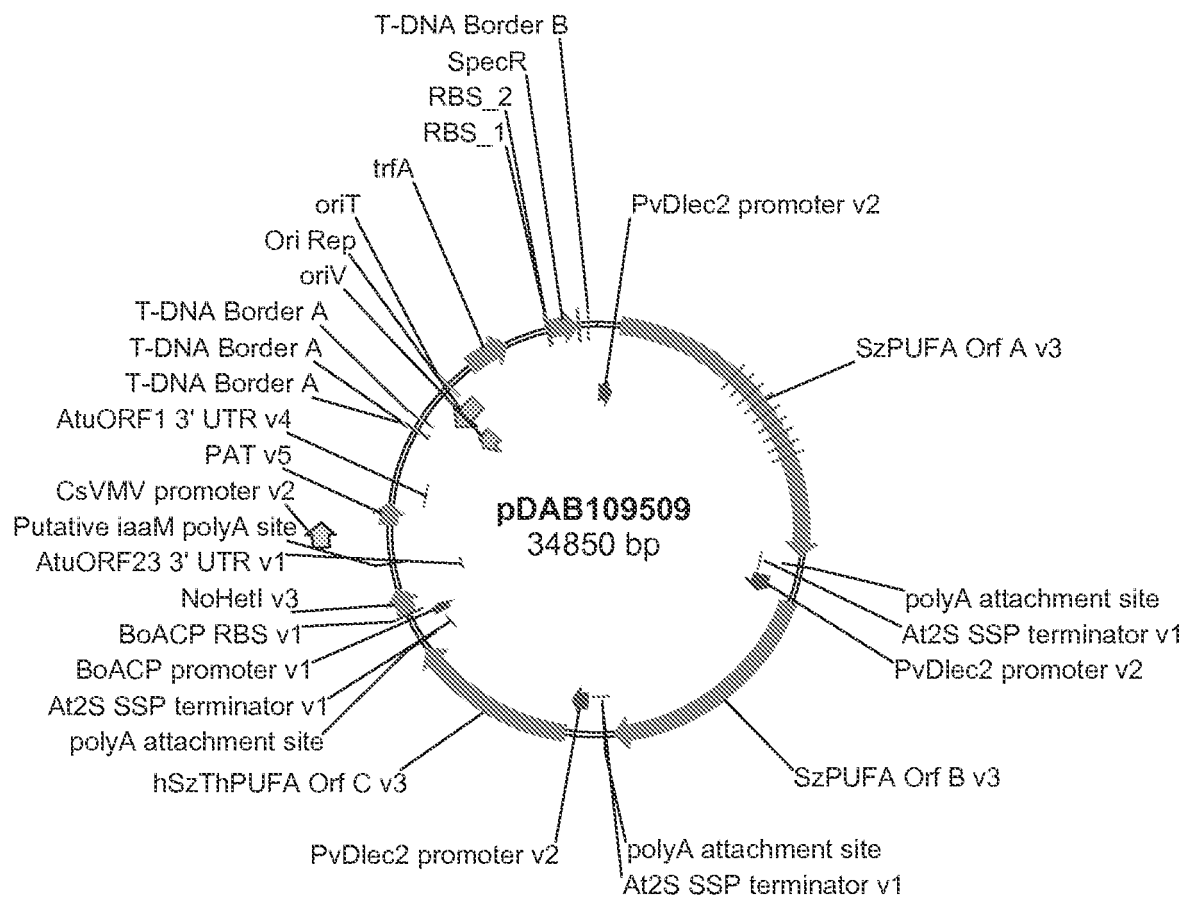


FIG. 42

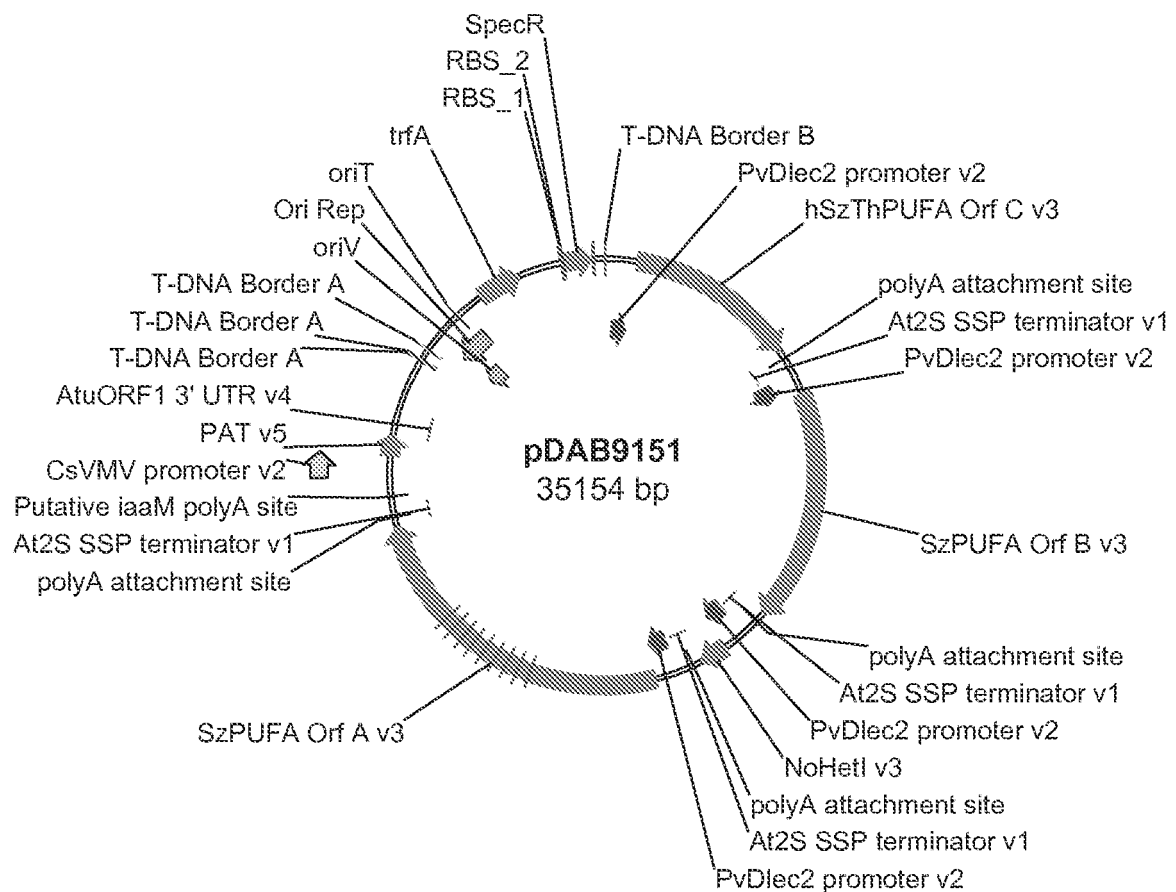


FIG. 43

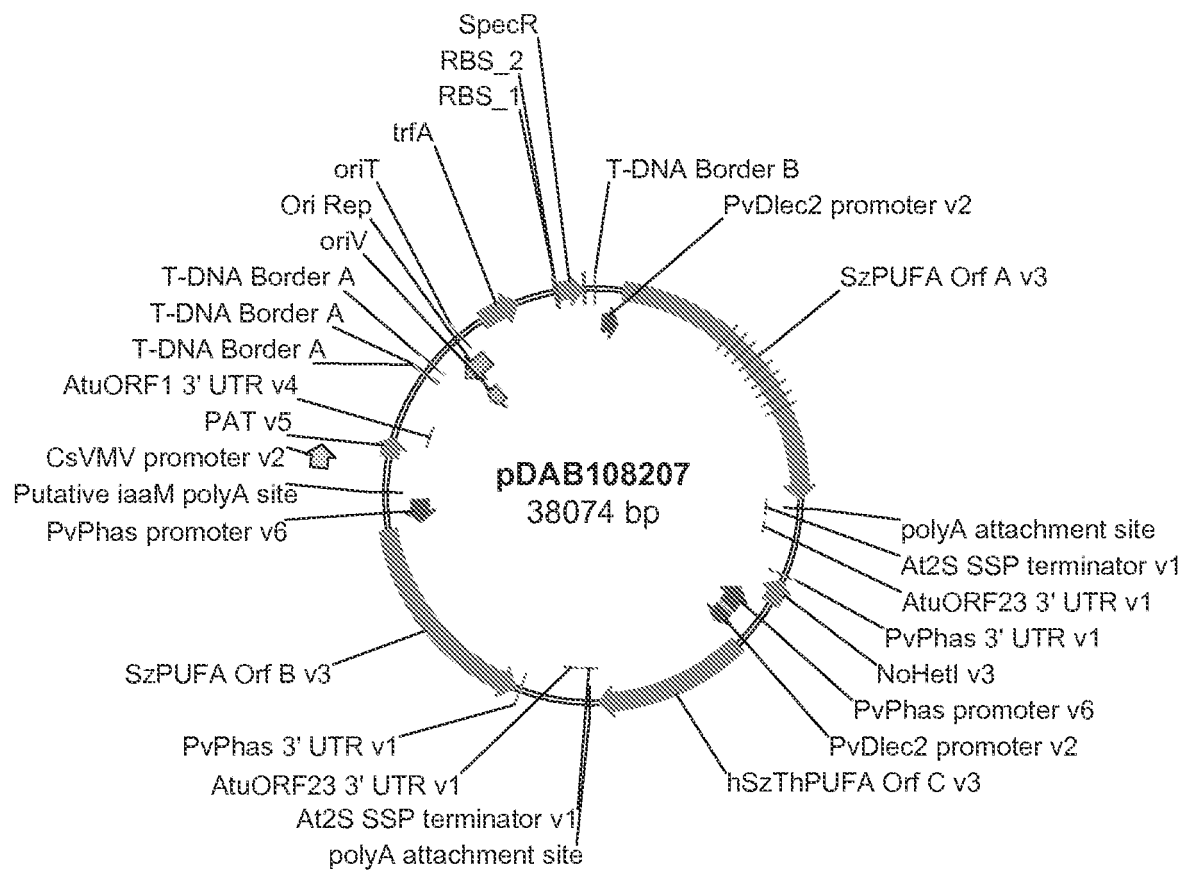


FIG. 44

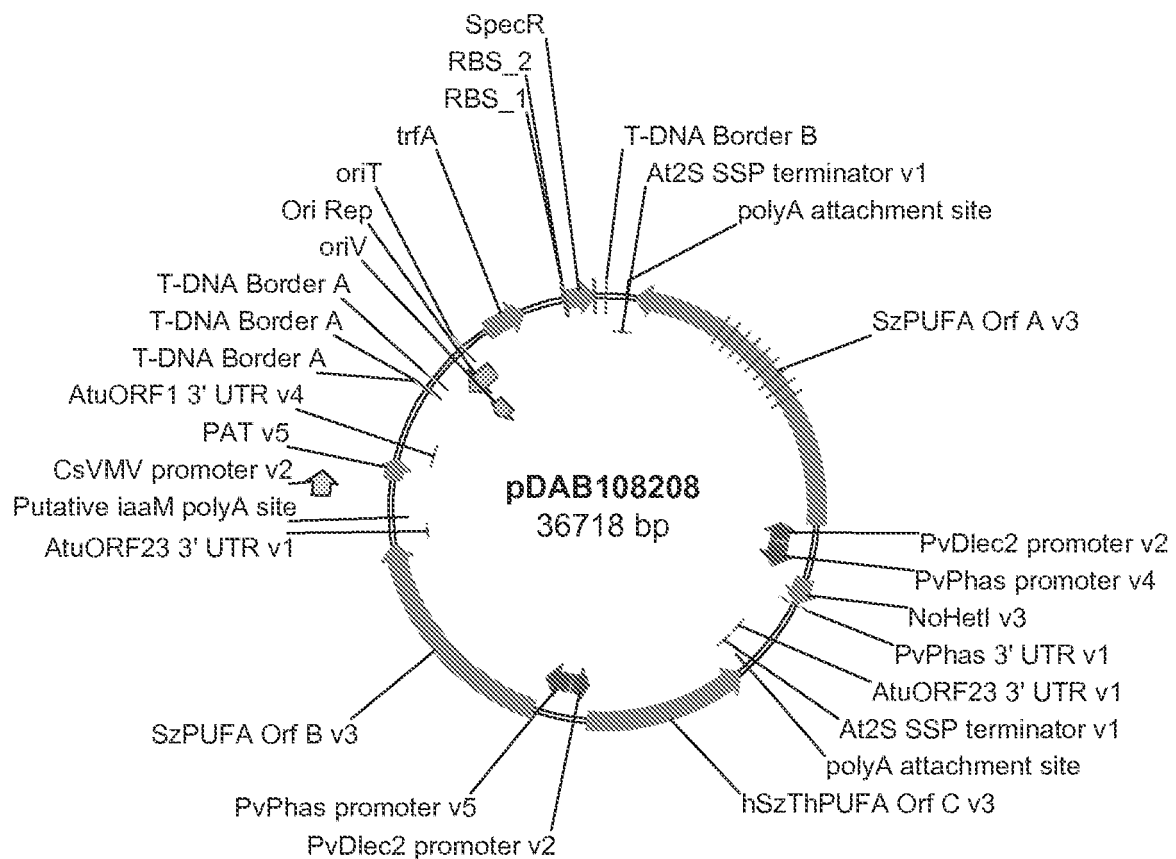


FIG. 45

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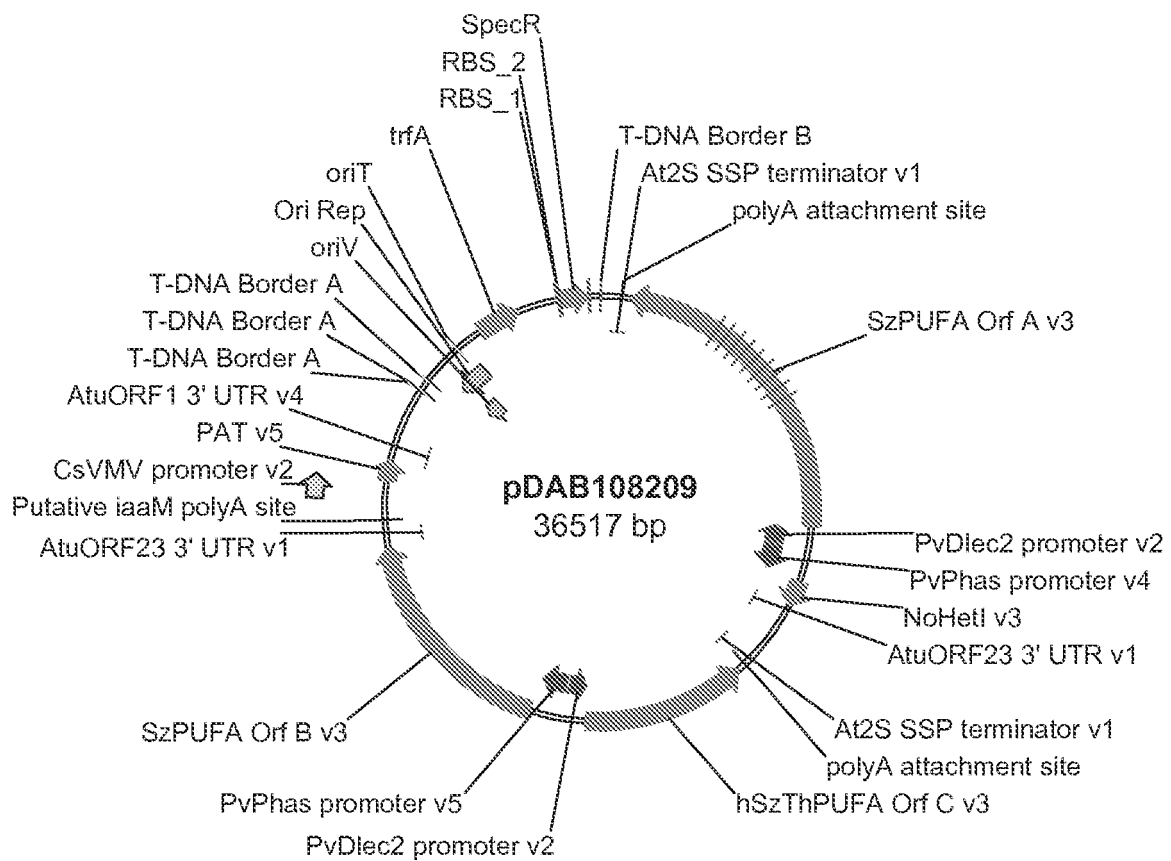


FIG. 46

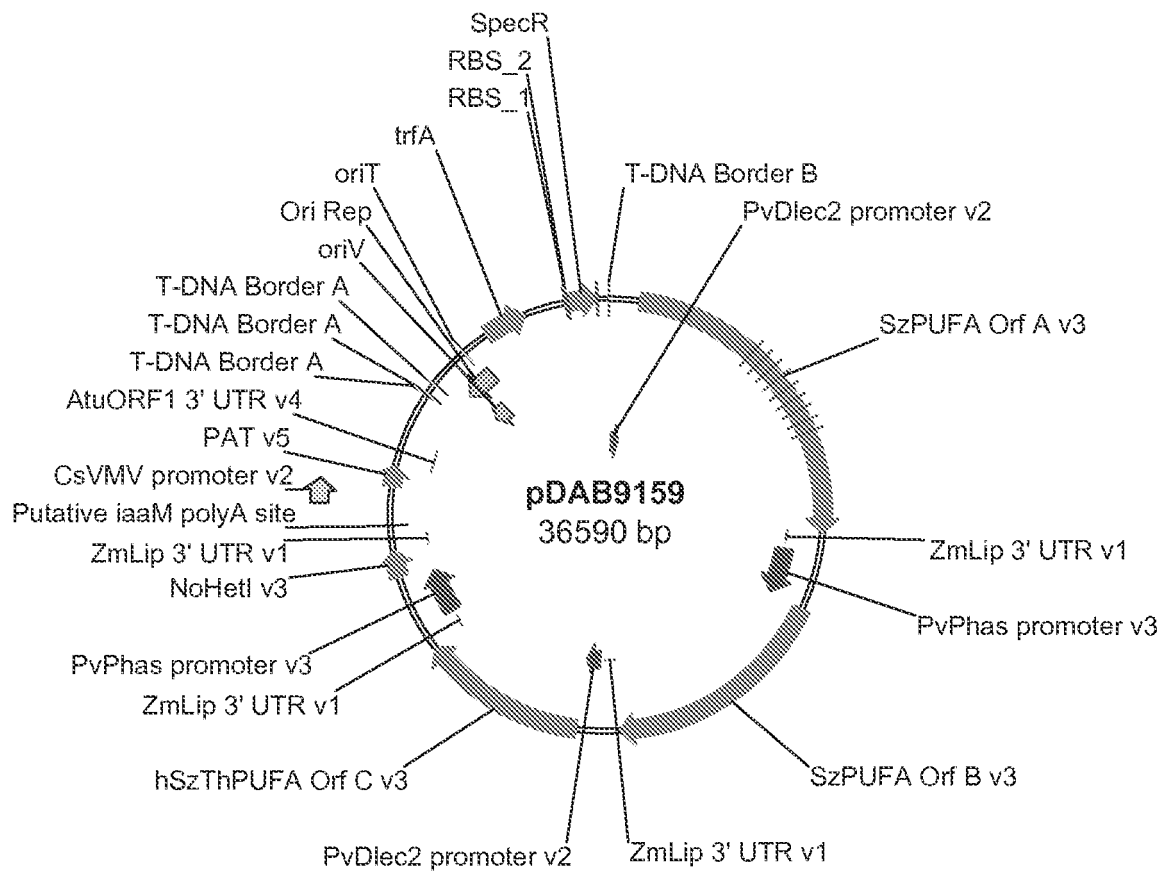


FIG. 47

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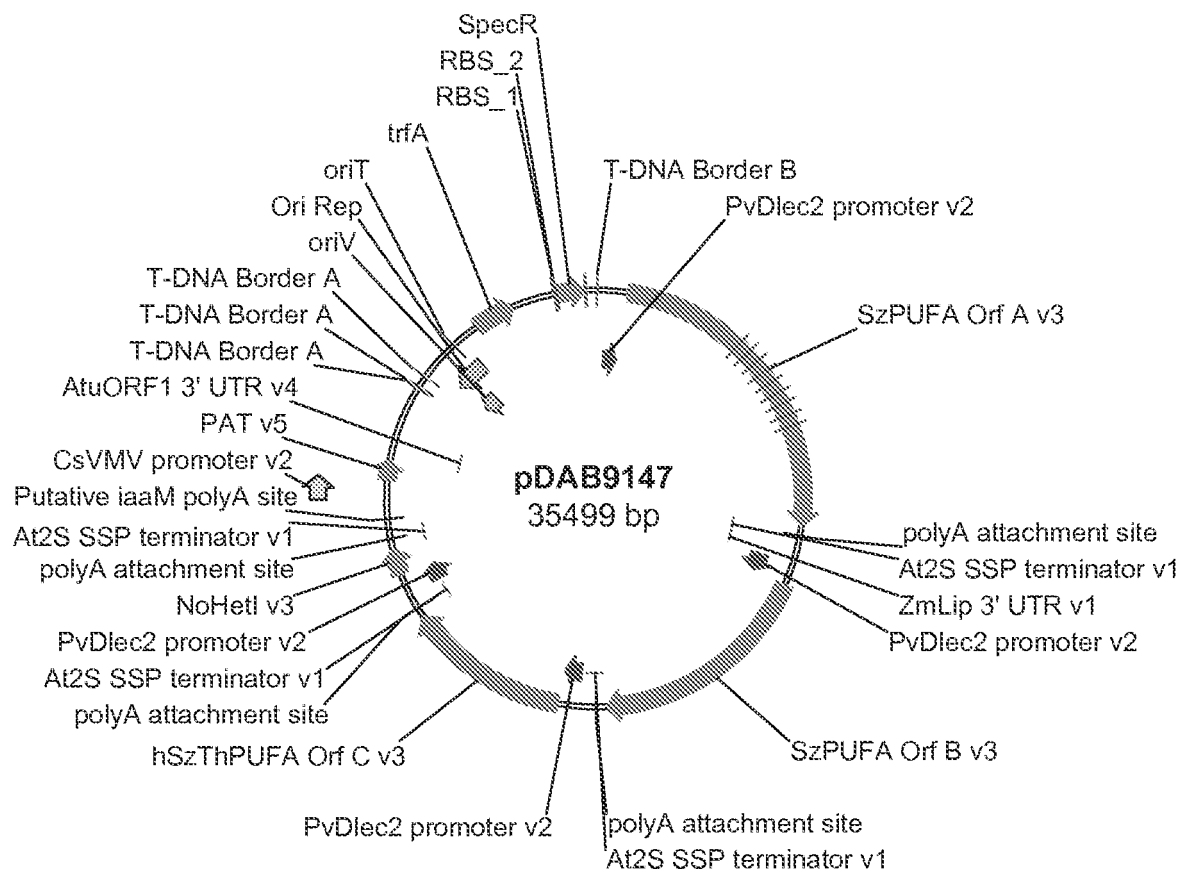


FIG. 48

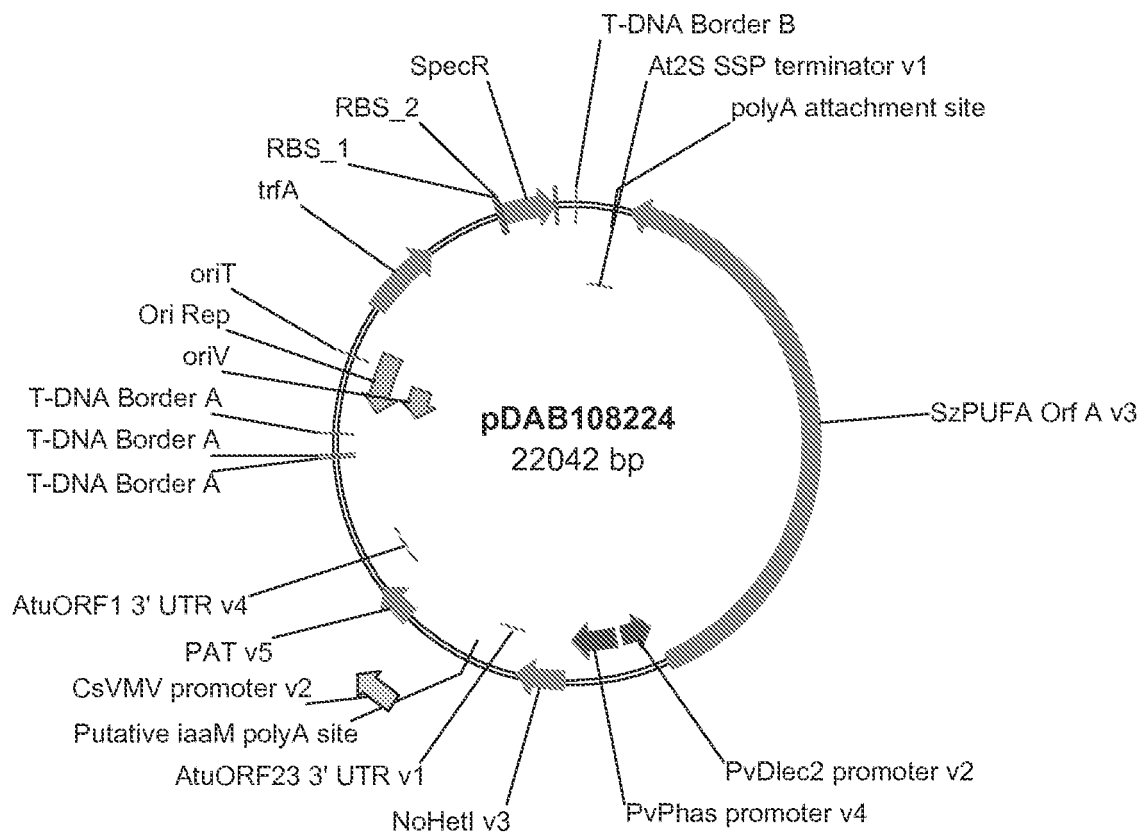
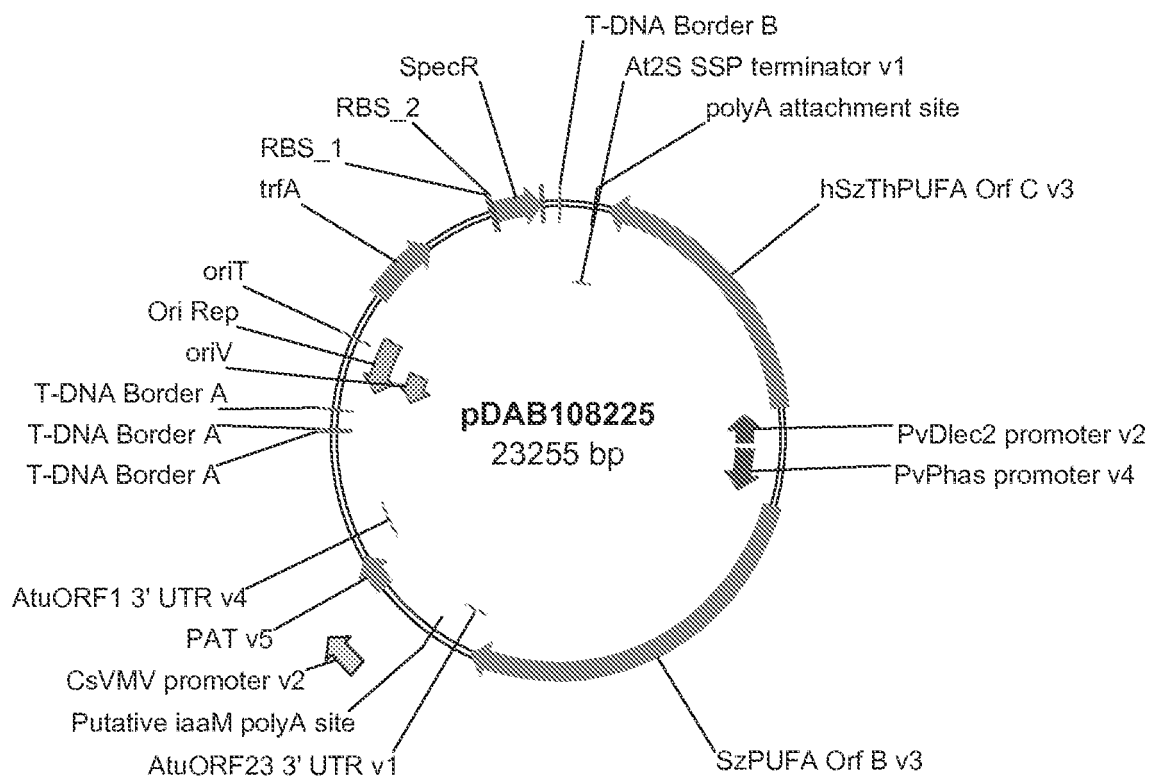


FIG. 49

**FIG. 50**

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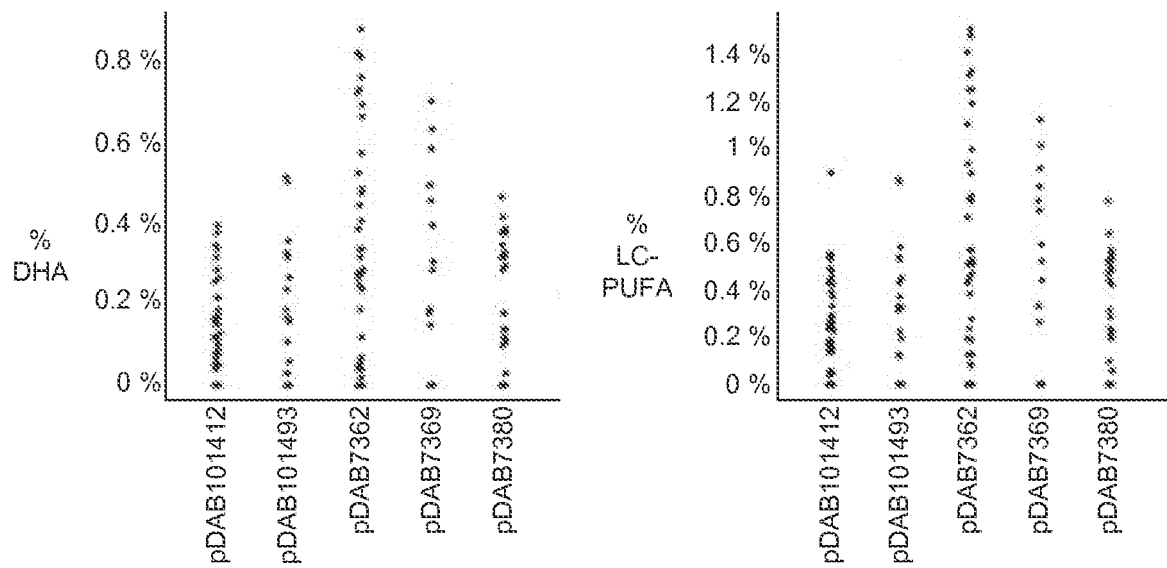


FIG. 51