

LISTADO DE SECUENCIAS

<110> MONSANTO TECHNOLOGY LLC
 BROWER-TOLAND, Brent
 DAI, Shunhong
 GABBERT, Karen
 GOLDSCHMIDT, Alexander
 HOWELL, Miya
 MCDILL, Brad
 OVADYA, Dan
 SAVIDGE, Beth
 SHARMA, Vijay

<120> COMPOSICIONES Y M/TODOS PARA ALTERAR LA FLORACIEN Y ARQUITECTURA DE PLANTA PARA MEJORAR EL POTENCIAL DE RENDIMIENTO

<130> P34461W000

<150> US 62/410355

<151> 2016-10-19

<150> US 62/411408

<151> 2016-10-21

<160> 110

<170> PatentIn versi n 3.5

<210> 1

<211> 531

<212> ADN

<213> Glycine max

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<213> Glycine max

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Asp Val Leu Asp Pro Phe Glu Tyr Ser Ile Pro Met Arg Val Thr Tyr
20 25 30

Asn Asn Arg Asp Val Ser Asn Gly Cys Glu Phe Lys Pro Ser Gln Val
35 40 45

Val Asn Gln Pro Arg Val Asn Ile Gly Gly Asp Asp Leu Arg Asn Phe
50 55 60

Tyr Thr Leu Ile Ala Val Asp Pro Asp Ala Pro Ser Pro Ser Asp Pro
65 70 75 80

Asn Leu Arg Glu Tyr Leu His Trp Leu Val Thr Asp Ile Pro Ala Thr
85 90 95

Thr Gly Ala Ser Phe Gly His Glu Val Val Thr Tyr Glu Ser Pro Arg
100 105 110

Pro Met Met Gly Ile His Arg Leu Val Phe Val Leu Phe Arg Gln Leu
115 120 125

Gly Arg Glu Thr Val Tyr Ala Pro Gly Trp Arg Gln Asn Phe Asn Thr
130 135 140

Lys Glu Phe Ala Glu Leu Tyr Asn Leu Gly Leu Pro Val Ala Ala Val
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Tyr Phe Asn Ile Gln Arg Glu Ser Gly Ser Gly Gly Arg Arg Leu Tyr
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 <213> Glycine max

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Arg Ala Ile Ser Asn Gly Leu Glu Leu Arg Pro Ser Gln Val Val Asn		
35	40	45
Arg Pro Arg Val Thr Val Gly Gly Glu Asp Leu Arg Thr Phe Tyr Thr		
50	55	60
Leu Val Met Val Asp Ala Asp Ala Pro Ser Pro Ser Asn Pro Val Leu		
65	70	75
Arg Glu Tyr Leu His Trp Met Val Thr Asp Ile Pro Ala Thr Thr Asn		
85	90	95
Ala Ser Phe Gly Arg Glu Val Val Phe Tyr Glu Ser Pro Asn Pro Ser		
100	105	110
Val Gly Ile His Arg Ile Val Phe Val Leu Phe Gln Gln Leu Gly Arg		
115	120	125
Asp Thr Val Ile Thr Pro Glu Trp Arg His Asn Phe Asn Ser Arg Asn		
130	135	140
Phe Ala Glu Ile Asn Asn Leu Ala Pro Val Ala Ala Ala Tyr Ala Asn		
145	150	155
Cys Gln Arg Glu Arg Gly Cys Gly Gly Arg Arg Tyr		
165	170	

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 <213> Glycine max

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 <213> Glycine max

<400> 6

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 1 5 10 15

Asp Val Leu Asp Pro Phe Glu Cys Ser Ile Pro Met Arg Val Thr Tyr
 20 25 30

Asn Asn Lys Asp Val Ser Asn Gly Cys Glu Phe Lys Pro Ser Gln Val
 35 40 45

Val Asn Gln Pro Arg Ile Asn Ile Gly Gly Asp Asp Phe Arg Asn Phe
 50 55 60

Tyr Thr Leu Ile Ala Val Asp Pro Asp Ala Pro Ser Pro Ser Asp Pro
 65 70 75 80

Asn Phe Arg Glu Tyr Leu His Trp Leu Val Thr Asp Ile Pro Ala Thr
 85 90 95

Thr Gly Pro Thr Phe Gly His Glu Val Val Thr Tyr Glu Asn Pro Arg
100 105 110

Pro Met Met Gly Ile His Arg Ile Val Phe Val Leu Phe Arg Gln Gln
115 120 125

Gly Arg Glu Thr Val Tyr Ala Pro Gly Trp Arg Gln Asn Phe Ile Thr
130 135 140

Arg Glu Phe Ala Glu Leu Tyr Asn Leu Gly Leu Pro Val Ala Ala Val
145 150 155 160

Tyr Phe Asn Ile Gln Arg Glu Ser Gly Cys Gly Gly Arg Arg Leu Cys
165 170 175

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<212> ADN
<213> Zea mays

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<211> 175
<212> PRT
<213> Zea mays

<400> 8

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Leu Asp Pro Phe Thr Pro Thr Ile Pro Leu Arg Ile Thr Tyr Asn Asn
20 25 30

Arg Leu Leu Leu Pro Ser Ala Glu Leu Lys Pro Ser Ala Val Val Ser
35 40 45

Lys Pro Arg Val Asp Ile Gly Gly Ser Asp Met Arg Ala Phe Tyr Thr
50 55 60

Leu Val Leu Ile Asp Pro Asp Ala Pro Ser Pro Ser His Pro Ser Leu
65 70 75 80

Arg Glu Tyr Leu His Trp Met Val Thr Asp Ile Pro Glu Thr Thr Ser
85 90 95

Val Asn Phe Gly Gln Glu Leu Ile Phe Tyr Glu Arg Pro Asp Pro Arg
100 105 110

Ser Gly Ile His Arg Leu Val Phe Val Leu Phe Arg Gln Leu Gly Arg
115 120 125

Gly Thr Val Phe Ala Pro Glu Met Arg His Asn Phe Asn Cys Arg Ser
130 135 140

Phe Ala Arg Gln Tyr His Leu Ser Ile Ala Thr Ala Thr His Phe Asn
145 150 155 160

Cys Gln Arg Glu Gly Gly Ser Gly Gly Arg Arg Phe Arg Glu Glu

165

170

175

<210> 9
 <211> 525
 <212> ADN
 <213> *Nicotiana tabacum*

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 <212> PRT
 <213> *Nicotiana tabacum*

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 20 25 30

Arg Glu Val Asn Asn Ala Cys Gly Leu Lys Pro Ser Gln Ile Val Thr
 35 40 45

Gln Pro Arg Val Gln Ile Gly Gly Asp Asp Leu Arg Asn Phe Tyr Thr
 50 55 60

Leu Val Met Val Asp Pro Asp Ala Pro Ser Pro Ser Asn Pro Asn Leu
 65 70 75 80

Arg Glu Tyr Leu His Trp Leu Val Thr Asp Ile Pro Ala Thr Thr Asp
 85 90 95

Thr Ser Phe Gly Asn Glu Val Ile Cys Tyr Glu Asn Pro Gln Pro Ser
 100 105 110

Leu Gly Ile His Arg Phe Val Phe Val Leu Phe Arg Gln Leu Gly Arg
 115 120 125

Glu Thr Val Tyr Ala Pro Gly Trp Arg Gln Asn Phe Ser Thr Arg Asp
 130 135 140

Phe Ala Glu Val Tyr Asn Leu Gly Leu Pro Val Ser Ala Val Tyr Phe
 145 150 155 160

Asn Cys His Arg Glu Ser Gly Thr Gly Gly Arg Arg Ala Tyr
 165 170

<210> 11
 <211> 534
 <212> ADN
 <213> Solanum lycopersicum

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<210> 12
 <211> 177
 <212> PRT
 <213> Solanum lycopersicum

<400> 12

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Val	Leu	Asp	Pro	Phe	Thr	Arg	Thr	Ile	Gly	Leu	Arg	Val	Ile	Tyr	Arg
			20					25					30		

Asp	Arg	Glu	Val	Asn	Asn	Gly	Cys	Glu	Leu	Arg	Pro	Ser	Gln	Val	Ile
		35					40					45			

Asn	Gln	Pro	Arg	Val	Glu	Val	Gly	Gly	Asp	Asp	Leu	Arg	Thr	Phe	Phe
	50					55					60				

Thr	Leu	Val	Met	Val	Asp	Pro	Asp	Ala	Pro	Ser	Pro	Ser	Asp	Pro	Asn
65					70					75					80

Leu	Arg	Glu	Tyr	Leu	His	Trp	Leu	Val	Thr	Asp	Ile	Pro	Ala	Thr	Thr
				85					90					95	

Gly	Ser	Ser	Phe	Gly	Gln	Glu	Ile	Val	Ser	Tyr	Glu	Ser	Pro	Arg	Pro
			100					105					110		

Ser	Met	Gly	Ile	His	Arg	Phe	Val	Phe	Val	Leu	Phe	Arg	Gln	Leu	Gly
		115					120					125			

Arg Gln Thr Val Tyr Ala Pro Gly Trp Arg Gln Asn Phe Asn Thr Arg
 130 135 140

Asp Phe Ala Glu Leu Tyr Asn Leu Gly Leu Pro Val Ala Ala Val Tyr
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Phe Asn Cys Gln Arg Glu Ser Gly Ser Gly Gly Arg Arg Arg Ser Ala
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Asp

<210> 13
 <211> 528
 <212> ADN
 <213> Arabidopsis thaliana

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 <211> 175
 <212> PRT
 <213> Arabidopsis thaliana

<400> 14

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Asp Val Leu Asp Pro Phe Asn Arg Ser Ile Thr Leu Lys Val Thr Tyr
20 25 30

Gly Gln Arg Glu Val Thr Asn Gly Leu Asp Leu Arg Pro Ser Gln Val
35 40 45

Gln Asn Lys Pro Arg Val Glu Ile Gly Gly Glu Asp Leu Arg Asn Phe
50 55 60

Tyr Thr Leu Val Met Val Asp Pro Asp Val Pro Ser Pro Ser Asn Pro
65 70 75 80

His Leu Arg Glu Tyr Leu His Trp Leu Val Thr Asp Ile Pro Ala Thr
85 90 95

Thr Gly Thr Thr Phe Gly Asn Glu Ile Val Cys Tyr Glu Asn Pro Ser
100 105 110

Pro Thr Ala Gly Ile His Arg Val Val Phe Ile Leu Phe Arg Gln Leu
115 120 125

Gly Arg Gln Thr Val Tyr Ala Pro Gly Trp Arg Gln Asn Phe Asn Thr
130 135 140

Arg Glu Phe Ala Glu Ile Tyr Asn Leu Gly Leu Pro Val Ala Ala Val
145 150 155 160

Phe Tyr Asn Cys Gln Arg Glu Ser Gly Cys Gly Gly Arg Arg Leu
165 170 175

<210> 15
 <211> 528
 <212> ADN
 <213> *Arabidopsis thaliana*

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 <211> 175
 <212> PRT
 <213> *Arabidopsis thaliana*

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 20 25 30
 Gly His Arg Glu Val Thr Asn Gly Leu Asp Leu Arg Pro Ser Gln Val
 35 40 45
 Leu Asn Lys Pro Ile Val Glu Ile Gly Gly Asp Asp Phe Arg Asn Phe
 50 55 60

Tyr Thr Leu Val Met Val Asp Pro Asp Val Pro Ser Pro Ser Asn Pro
65 70 75 80

His Gln Arg Glu Tyr Leu His Trp Leu Val Thr Asp Ile Pro Ala Thr
85 90 95

Thr Gly Asn Ala Phe Gly Asn Glu Val Val Cys Tyr Glu Ser Pro Arg
100 105 110

Pro Pro Ser Gly Ile His Arg Ile Val Leu Val Leu Phe Arg Gln Leu
115 120 125

Gly Arg Gln Thr Val Tyr Ala Pro Gly Trp Arg Gln Gln Phe Asn Thr
130 135 140

Arg Glu Phe Ala Glu Ile Tyr Asn Leu Gly Leu Pro Val Ala Ala Ser
145 150 155 160

Tyr Phe Asn Cys Gln Arg Glu Asn Gly Cys Gly Gly Arg Arg Thr
165 170 175

<210> 17
<211> 540
<212> ADN
<213> Oryza sativa

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<210> 18
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 <212> PRT
 <213> Oryza sativa

<400> 18

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Val Gly Asp Val Leu Asp Ala Phe Val Arg Ser Thr Asn Leu Lys Val
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Thr Tyr Gly Ser Lys Thr Val Ser Asn Gly Cys Glu Leu Lys Pro Ser
 35 40 45

Met Val Thr His Gln Pro Arg Val Glu Val Gly Gly Asn Asp Met Arg
 50 55 60

Thr Phe Tyr Thr Leu Val Met Val Asp Pro Asp Ala Pro Ser Pro Ser
 65 70 75 80

Asp Pro Asn Leu Arg Glu Tyr Leu His Trp Leu Val Thr Asp Ile Pro
 85 90 95

Gly Thr Thr Ala Ala Ser Phe Gly Gln Glu Val Met Cys Tyr Glu Ser
 100 105 110

Pro Arg Pro Thr Met Gly Ile His Arg Leu Val Phe Val Leu Phe Gln
 115 120 125

Gln Leu Gly Arg Gln Thr Val Tyr Ala Pro Gly Trp Arg Gln Asn Phe

130

135

140

Asn Thr Lys Asp Phe Ala Glu Leu Tyr Asn Leu Gly Ser Pro Val Ala
 145 150 155 160

Ala Val Tyr Phe Asn Cys Gln Arg Glu Ala Gly Ser Gly Gly Arg Arg
 165 170 175

Val Tyr Pro

<210> 19
 <211> 525
 <212> ADN
 <213> Populus trichocarpa

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<210> 20
 <211> 174
 <212> PRT
 <213> Populus trichocarpa

<400> 20

Met Ser Arg Asp Arg Asp Pro Leu Ser Val Gly Arg Val Ile Gly Asp
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Val Leu Asp Pro Phe Thr Lys Ser Ile Ser Leu Arg Val Thr Tyr Ser
20 25 30

Ser Arg Glu Val Asn Asn Gly Cys Glu Leu Lys Pro Ser Gln Val Ala
35 40 45

Asn Gln Pro Arg Val Asp Ile Gly Gly Glu Asp Leu Arg Thr Phe Tyr
50 55 60

Thr Leu Val Met Val Asp Pro Asp Ala Pro Ser Pro Ser Asp Pro Ser
65 70 75 80

Leu Arg Glu Tyr Leu His Trp Leu Val Thr Asp Ile Pro Ala Thr Thr
85 90 95

Gly Ala Ser Phe Gly His Glu Thr Val Cys Tyr Glu Ser Pro Arg Pro
100 105 110

Thr Met Gly Ile His Arg Phe Val Phe Val Leu Phe Arg Gln Leu Gly
115 120 125

Arg Gln Thr Val Tyr Ala Pro Gly Trp Arg Gln Asn Phe Asn Thr Arg
130 135 140

Asp Phe Ala Glu Val Tyr Asn Leu Gly Ser Pro Val Ala Ala Val Tyr
145 150 155 160

Phe Asn Cys Gln Arg Glu Ser Gly Ser Gly Gly Arg Arg Arg
165 170

<210> 21
<211> 519
<212> ADN

<213> Glycine max

<400> 21

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<210> 22

<211> 172

<212> PRT

<213> Glycine max

<400> 22

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Met Ala Arg Glu Asn Pro Leu Val Ile Gly Gly Val Ile Gly Asp Val
1           5           10          15
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Leu Asn Pro Phe Thr Ile Ser Val Ser Phe Thr Ile Ser Ile Asn Asn
          20          25          30
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Arg Ala Ile Ser Asn Gly Leu Glu Leu Arg Pro Ser Gln Val Val Asn
          35          40          45
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Arg Pro Arg Val Thr Val Gly Gly Glu Asp Leu Arg Thr Phe Tyr Thr
          50          55          60
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Leu Val Met Val Asp Ala Asp Ala Pro Ser Pro Ser Asn Pro Val Leu
65          70          75          80
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Arg Glu Tyr Leu His Trp Met Val Thr Asp Ile Pro Ala Thr Thr Asn
85 90 95

Ala Ser Phe Gly Arg Glu Val Val Phe Tyr Glu Ser Pro Asn Pro Ser
100 105 110

Ala Gly Ile His Arg Leu Val Phe Ile Leu Phe Gln Gln Leu Gly Arg
115 120 125

Asp Thr Val Ile Thr Pro Glu Trp Arg His Asn Phe Asn Ser Arg Asn
130 135 140

Phe Ala Glu Ile Asn Asn Leu Ala Pro Val Ala Ala Ala Tyr Ala Asn
145 150 155 160

Cys Gln Arg Glu Arg Gly Cys Gly Gly Arg Arg Tyr
165 170

<210> 23
<211> 525
<212> ADN
<213> Gossypium hirsutum

<400> 23
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<212> PRT
<213> *Gossypium hirsutum*

<400> 24

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Val Leu Asp Pro Phe Thr Arg Ser Ile Ser Leu Arg Val Thr Tyr Ala
20 25 30

Thr Arg Asp Val Ser Asn Gly Val Glu Leu Lys Pro Ser Gln Val Val
35 40 45

Asn Gln Pro Arg Val Asp Ile Gly Gly Asp Asp Leu Arg Thr Phe Tyr
50 55 60

Thr Leu Val Met Val Asp Pro Asp Ala Pro Ser Pro Ser Asp Pro Asn
65 70 75 80

Leu Arg Glu Tyr Leu His Trp Leu Val Thr Asp Ile Pro Ala Thr Thr
85 90 95

Gly Ala Ser Phe Gly Gln Glu Val Val Cys Tyr Glu Ser Pro Arg Pro
100 105 110

Thr Val Gly Ile His Arg Phe Val Phe Val Leu Phe Arg Gln Leu Gly
115 120 125

Arg Gln Thr Val Tyr Ala Pro Gly Trp Arg Gln Asn Phe Asn Thr Arg
130 135 140

Asp Phe Ala Glu Leu Tyr Asn Leu Gly Leu Pro Val Ala Ala Val Tyr
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Phe Asn Cys Gln Arg Glu Ser Gly Ser Gly Gly Arg Arg Thr
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 <211> 528
 <212> ADN
 <213> Brassica napus

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 <212> PRT
 <213> Brassica napus

<400> 26

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Gly Gln Arg Glu Val Thr Asn Gly Leu Asp Leu Arg Pro Ser Gln Val
 35 40 45

Leu Asn Lys Pro Arg Val Glu Ile Gly Gly Glu Asp Leu Arg Asn Phe
 50 55 60

Tyr Thr Leu Val Met Val Asp Pro Asp Val Pro Ser Pro Ser Asn Pro
 65 70 75 80

His Leu Arg Glu Tyr Leu His Trp Leu Val Thr Asp Ile Pro Ala Thr
 85 90 95

Thr Gly Thr Asn Phe Gly Asn Glu Ile Val Ser Tyr Glu Ser Pro Arg
 100 105 110

Pro Asn Ser Gly Ile His Arg Ile Val Leu Val Leu Phe Arg Gln Leu
 115 120 125

Gly Arg Gln Thr Val Tyr Glu Pro Gly Trp Arg Gln Gln Phe Asn Thr
 130 135 140

Arg Glu Phe Ala Ser Leu Tyr Asn Leu Gly Leu Pro Val Ala Ala Val
 145 150 155 160

Phe Tyr Asn Cys Gln Arg Glu Ser Gly Cys Gly Gly Arg Arg Ser
 165 170 175

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 <211> 543
 <212> ADN
 <213> Triticum aestivum

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 <213> Triticum aestivum

<400> 28

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Arg	Leu	Val	Leu	Ala	Gly	Ala	Glu	Leu	Arg	Pro	Ser	Ala	Ile	Val	Ser
			35					40				45			

Lys	Pro	Arg	Val	Asp	Ile	Gly	Gly	Ser	Asp	Met	Arg	Val	Leu	Tyr	Thr
			50				55				60				

Leu	Ile	Leu	Val	Asp	Pro	Asp	Ala	Pro	Ser	Pro	Ser	His	Pro	Ser	Leu
65					70					75					80

Arg	Glu	Tyr	Leu	His	Trp	Met	Val	Ser	Asp	Ile	Pro	Gly	Thr	Thr	Ser
				85						90					95

Gly Ser Phe Gly Gln Glu Leu Val Val Tyr Glu Arg Pro Glu Pro Arg
100 105 110

Ser Gly Ile His Arg Met Val Phe Val Leu Phe Gln Gln Leu Gly Arg
115 120 125

Gly Thr Val Phe Ala Pro Asp Val Arg His Asn Phe Ser Cys Arg Asn
130 135 140

Phe Ala Arg Gln Tyr His Leu Asn Ile Val Ala Ala Ser Tyr Phe Asn
145 150 155 160

Cys Gln Arg Glu Gly Gly Ser Gly Gly Arg Arg Phe Arg Pro Glu Ser
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Ser Gln Gly Glu
180

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<212> ADN
<213> Pisum sativum

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<212> PRT
<213> Pisum sativum

<400> 30

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Asp Val Ile Asp Pro Phe Glu Asn Ser Val Pro Leu Arg Val Thr Tyr
20 25 30

Gly Ser Arg Asp Val Asn Asn Gly Cys Glu Leu Lys Pro Ser His Val
35 40 45

Gly Asn Gln Pro Arg Val Asn Val Gly Gly Asn Asp Leu Arg Asn Ile
50 55 60

Tyr Thr Leu Val Leu Val Asp Pro Asp Ser Pro Ser Pro Ser Asn Pro
65 70 75 80

Thr Phe Arg Glu Tyr Leu His Trp Leu Val Thr Asp Ile Pro Ala Thr
85 90 95

Thr Glu Val Ser Phe Gly Asn Glu Ile Val Ser Tyr Glu Arg Pro Arg
100 105 110

Pro Thr Ser Gly Ile His Arg Phe Val Phe Ile Leu Phe Arg Gln Gln
115 120 125

Cys Arg Gln Arg Val Tyr Ala Pro Gly Trp Arg Gln Asn Phe Asn Thr
130 135 140

Arg Glu Phe Ala Glu Leu Tyr Asn Leu Gly Ser Pro Val Ala Ala Val

Phe Phe Asn Cys Gln Arg Glu Ser Gly Ser Gly Gly Arg Thr Phe Arg
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<211> 507
<212> ADN
<213> Arabidopsis thaliana

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<212> ADN
<213> Glycine max

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 <213> Glycine max

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<211> 2000
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<213> Glycine max

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 <213> Solanum tuberosum

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 <213> Solanum tuberosum

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<211> 471
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<213> *Arabidopsis thaliana*

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caaaagcaaa cctcttttgc atgcgtcctt aaaagacata aatttctctc aaaattttct 360
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<213> *Arabidopsis thaliana*

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 <212> ADN
 <213> Arabidopsis thaliana

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 <212> ADN
 <213> *Arabidopsis thaliana*

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<210> 44
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 <213> Glycine max

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 <212> ADN
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 <212> ADN
 <213> Solanum lycopersicum

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 <213> Solanum lycopersicum

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<211> 1812

<212> ADN

<213> Solanum lycopersicum

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 <213> Solanum lycopersicum

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 <213> Arabidopsis thaliana

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 <212> ADN
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<211> 1545
<212> ADN
<213> Glycine max

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<210> 81
 <211> 2001
 <212> ADN
 <213> Glycine max

<400> 81

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 <211> 1643
 <212> ADN
 <213> Glycine max

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 <211> 2001
 <212> ADN
 <213> Glycine max

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<210> 84
 <211> 2001
 <212> ADN
 <213> Solanum lycopersicum

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<211> 1817
<212> ADN
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<210> 86
 <211> 2001
 <212> ADN
 <213> Solanum lycopersicum

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<210> 87

<211> 1882

<212> ADN

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<400> 87

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 <212> ADN
 <213> Zea mays

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<212> ADN
<213> Zea mays

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 <211> 668
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