

PF60881.ST25.txt
SEQUENCE LISTING

<110> CropDesign N.V.

<120> yield enhancement in plants by modulation of maize MADS box transcription factor ZMM28

<130> PF60881

<150> US 60/942,304

<151> 2007-06-06

<160> 9

<170> PatentIn version 3.3

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<211> 1270

<212> DNA

<213> Zea mays

<400> 1

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aacgggctgc tgaagaaggc ccacgagatc tccgtgctct gcgacgcaga ggtcgcgctc      240
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<213> Zea mays

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20           25           30
His Glu Ile Ser Val Leu Cys Asp Ala Glu Val Ala Leu Ile Val Phe
35           40           45
Ser Thr Lys Gly Lys Leu Tyr Glu Tyr Ser Ser His Ser Ser Met Glu
50           55           60
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Glu	Ser	Glu	Ser	Glu	Pro	Ser	Pro	Ala	Pro	Ala	Gln	Ala	Asn	Arg	Gly
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His	Glu	Ile	Ser	Val	Leu	Cys	Asp	Ala	Asp	Val	Ala	Leu	Ile	Val	Phe
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Ile	Leu	Lys	Ser	Lys	Leu	Asp	Ala	Leu	Gln	Lys	Ser	Gln	Arg	Gln	Leu
			100						105				110		
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Ala	Thr	Pro	Ser	Thr	Ser	Ser	Pro	Thr	Pro	Val	Thr	Ala	Pro	Asp	Pro
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210						215					220				

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 35 40 45
 Ser Thr Lys Gly Lys Leu Tyr Glu Tyr Ser Ser Gln Asp Ser Ser Met
 50 55 60
 Asp Val Ile Leu Glu Arg Tyr Gln Arg Tyr Ser Phe Glu Glu Arg Ala
 65 70 75 80
 Val Leu Asp Pro Ser Ile Gly Asn Gln Ala Asn Trp Gly Asp Glu Tyr
 85 90 95
 Gly Ser Leu Lys Ile Lys Leu Asp Ala Phe Gln Lys Ser Gln Arg Gln
 100 105 110
 Leu Leu Gly Glu Gln Leu Gly Pro Leu Thr Thr Lys Glu Leu Gln Gln
 115 120 125
 Leu Glu Gln Gln Leu Asp Ser Ser Leu Lys His Ile Arg Ser Arg Lys
 130 135 140
 Asn Gln Leu Leu Phe Glu Ser Ile Ser Glu Leu Gln Lys Lys Glu Lys
 145 150 155 160
 Ser Leu Lys Asp Gln Asn Gly Val Leu Gln Lys His Leu Val Glu Thr
 165 170 175
 Glu Lys Glu Lys Asn Asn Val Leu Ser Asn Ile His His Gln Glu Gln
 180 185 190
 Leu Asn Gly Ala Thr Asn Ile Asn His Gln Glu Gln Leu Asn Gly Ala
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 Thr Thr Ser Ser Pro Ser Pro Thr Pro Ala Thr Ala Gln Asp Ser Met
 210 215 220
 Ala Thr Pro Asn Ile Gly Pro Tyr Gln Ser Ser Glu Ser Gly Gly Gly
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 His Glu Ile Ser Val Leu Cys Asp Ala Glu Val Ala Leu Ile Val Phe
 35 40 45
 Ser Thr Lys Gly Lys Leu Tyr Glu Tyr Ser Ser Gln Asp Ser Ser Met

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Gly Ser Leu Lys Ile Lys Leu Asp Ala Leu Gln Lys Ser Gln Arg Gln		95
	100	105
Leu Leu Gly Glu Gln Leu Asp Pro Leu Thr Thr Lys Glu Leu Gln Gln		110
	115	120
Leu Glu Gln Gln Leu Asp Ser Ser Leu Lys His Ile Arg Ser Arg Lys		125
	130	135
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145	150	155
Ser Leu Lys Asp Gln Asn Gly Val Leu Gln Lys His Leu Val Glu Thr		160
	165	170
Glu Lys Glu Lys Asn Asn Val Leu Ser Asn Ile His His Arg Glu Gln		175
	180	185
Leu Asn Glu Ala Thr Asn Ile His His Gln Glu Gln Leu Ser Gly Ala		190
	195	200
Thr Thr Ser Ser Pro Ser Pro Thr Pro Pro Thr Ala Gln Asp Ser Met		205
	210	215
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225	230	235
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Gln Leu Met Tyr Glu Ser Ile Asn Glu Leu Gln Lys Lys Glu Lys Ala	
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Ile Gln Glu Gln Asn Ser Met Leu Ser Lys Gln Ile Lys Glu Arg Glu	
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Lys Ile Leu Arg Ala Gln Gln Glu Gln Trp Asp Gln Gln Asn Gln Gly	
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225					230					235					240		
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Ser	Asn	Lys	Gly	Lys	Leu	Phe	Glu	Tyr	Ser	Thr	Asp	Ser	Cys	Met	Asp		
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65					70					75					80		
Val	Ser	Asn	Glu	Pro	Gln	Ser	Pro	Ala	Asn	Trp	Thr	Leu	Glu	Tyr	Ser		
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Lys	Leu	Lys	Ala	Arg	Ile	Glu	Leu	Leu	Gln	Arg	Asn	His	Arg	His	Tyr		
			100					105					110				
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Glu	Gln	Gln	Leu	Asp	Thr	Ala	Leu	Lys	Asn	Ile	Arg	Thr	Arg	Lys	Asn		
		130				135						140					
Gln	Leu	Leu	Tyr	Asp	Ser	Ile	Ser	Glu	Leu	Gln	His	Lys	Glu	Lys	Ala		
145				150						155					160		
Ile	Gln	Glu	Gln	Asn	Thr	Met	Leu	Ala	Lys	Lys	Ile	Lys	Glu	Lys	Glu		
				165					170					175			
Lys	Glu	Ile	Ala	Gln	Gln	Pro	Gln	Trp	Glu	His	His	Arg	His	His	Thr		
			180					185					190				
Asn	Ala	Ser	Ile	Met	Pro	Pro	Pro	Pro	Gln	Tyr	Ser	Met	Ala	Pro	Gln		
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Phe	Pro	Cys	Ile	Asn	Val	Gly	Asn	Thr	Tyr	Glu	Gly	Glu	Gly	Ala	Asn		
	210					215					220						
Glu	Asp	Arg	Arg	Asn	Glu	Leu	Asp	Leu	Thr	Leu	Asp	Ser	Leu	Tyr	Ser		
225					230					235					240		
Cys	His	Leu	Gly	Cys	Phe	Ala	Ala										
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			20					25					30				
His	Glu	Ile	Ser	Val	Leu	Cys	Asp	Ala	Glu	Val	Ala	Leu	Ile	Val	Phe		
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His Glu Xaa Ser Val Leu Cys Asp Ala Xaa Val Ala Leu Xaa Val Phe
35 40 45
Ser Xaa Lys Gly Lys Leu
50