

## SEQUENCE LISTING

<110> CropDesign N.V.

<120> Yield enhancement in plants by modulation of ZmPKT

<130> PF60829

<160> 9

<170> PatentIn version 3.3

<210> 1

<211> 1942

<212> DNA

<213> Zea mays

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<213> Zea mays

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PF60829.ST25.txt

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<213> Zea mays

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Glu Thr Leu Ala Lys His Leu Phe His Trp Glu Thr Asn Pro Leu Ser  
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165 170 175  
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Leu Val Leu Met Asp Ser Cys Leu Glu Gly His Val Ser Ser Ser Asp  
210 215 220  
Gly Thr Asp Leu Met Arg Leu Ala Ser Arg Cys Leu Gln Tyr Glu Ala  
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<213> Zea mays

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PF60829.ST25.txt

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Glu	Thr	Leu	Ala	Lys	His	Leu	Phe	His	Trp	Glu	Thr	Gln	Pro	Leu	Ser
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Arg	Ile	Leu	Phe	Asp	Gln	Asp	Gly	Asn	Pro	Arg	Leu	Ser	Cys	Phe	Gly
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Thr	Met	Leu	Ala	Arg	Arg	Cys	Leu	Cys	Tyr	Leu	Met	Ala	Gly	Met	Pro
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&lt;211&gt; 488

&lt;212&gt; PRT

&lt;213&gt; Oryza sativa

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Thr	Asp	Gly	Phe	Ser	Pro	Glu	Arg	Ile	Val	Ser	Glu	His	Gly	Glu	Lys
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Phe	Leu	Glu	Glu	Ala	Arg	Ala	Val	Gly	Gln	Leu	Arg	Ser	Val	Arg	Leu
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Glu Val Ser Phe His	Ser Trp Thr Gly Gln Gln Val Ser Asp Ser Ile			
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Leu Val Lys Lys His	Gly Asp Ser Ala Phe Gln Ser Lys Asp Phe Ala			
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Ser Pro Thr Met Leu	Ala Arg Arg Ser Phe Val Tyr Met Val Leu Gly			
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Lys Leu Gln Glu Gly	Leu Ala Asp Ala Lys Lys Ala Ala Asp Ile Ser			
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Pro Glu Trp Pro Thr	Ala His Tyr Leu Gln Gly Met Ala Tyr Leu Ala			
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Met Gly Met Glu Pro	Glu Gly His Glu Glu Leu Lys Gln Gly Ala Ala			
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35 40 45
Thr Cys Gly Phe Ser Thr Asp Ser Ile Val Ser Glu His Gly Val Lys
50 55 60
Ala Pro Asn Val Val Tyr Lys Gly Arg Leu Glu Asp Asp Arg Trp Ile
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Ala Val Lys Arg Phe Asn Arg Ser Ala Trp Pro Asp Thr Arg Gln Phe
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Glu Phe Met Pro Phe Glu Thr Leu Ser Lys His Leu Phe His Trp Asp
130 135 140
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Ala Gln Ala Leu Glu Tyr Cys Ser Ser Lys Gly Arg Ala Leu Tyr His
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Asp Leu Asn Ala Tyr Arg Ile Leu Phe Asp Gln Asp Gly Asn Pro Arg
180 185 190
Leu Ser Cys Phe Gly Leu Met Lys Asn Ser Arg Asp Gly Lys Ser Tyr
195 200 205
Ser Thr Asn Leu Ala Phe Thr Pro Pro Glu Tyr Leu Arg Thr Gly Arg

PF60829.ST25.txt

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Arg Gly Lys Asn Phe Leu Met Leu Met Asp Ser Cys Leu Asp Gly His				
	260	265	270	
Phe Ser Asn Asp Asp Gly Thr Asp Leu Val Arg Leu Ala Ser Arg Cys				
	275	280	285	
Leu Gln Tyr Glu Ala Arg Glu Arg Pro Asn Val Lys Ser Leu Val Ser				
	290	295	300	
Ser Leu Ala Pro Leu Gln Lys Glu Thr Asp Ile Pro Ser His Val Leu				
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Met Gly Ile Pro His Gly Ala Ala Ser Pro Lys Glu Thr Thr Ser Leu				
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Glu Leu Ser Phe Gln Val Trp Thr Asp Gln Ile Gln Glu Thr Leu Asn				
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Ser Lys Lys Gln Gly Asp Ala Ala Phe Lys Gly Lys Asp Phe Val Thr				
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Pro Thr Val Phe Ala Arg Arg Cys Leu Cys Tyr Leu Met Ser Asn Met				
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Glu Trp Pro Thr Ala Phe Tyr Leu Gln Ala Ala Leu Phe Ser Leu				
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Gly Met Asp Lys Asp Ala Cys Glu Thr Leu Lys Asp Gly Thr Ser Leu				
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Ser Glu Arg Leu Ala Asn Leu Val Gly Cys Cys Cys Glu Gly Glu Glu	
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	125

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Glu	Ala	Asn	Pro	Arg	Leu	Ser	Cys	Phe	Gly	Leu	Met	Lys	Asn	Ser	Arg 185	
Asp	Gly	Arg	Ser	Tyr	Ser	Thr	Asn	Leu	Ala	Phe	Thr	Pro	Pro	Glu	Tyr 200	
Leu 225	Arg	Thr	Gly	Arg	Ile	Thr	Pro	Glu	Ser	Val	Val	Tyr	Ser	Phe	Gly 210	
Thr	Leu	Leu	Leu	Gly 245	Leu	Leu	Ser	Gly	Lys	His	Ile	Pro	Pro	Ser	His 235	
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Leu	Ala	Ser	Arg	Cys	Leu	Gln	Tyr	Glu	Pro	Arg	Glu	Arg	Pro	Asn	Val 280	
Lys 305	Leu	Leu	Val	Thr	Ala	Leu	Thr	Pro	Leu	Gln	Lys	Glu	Thr	Ser	Val 295	
Pro	Ser	Asn	Val	Leu 325	Met	Gly	Ile	Pro	Asp	Arg	Ser	Leu	Ser	Ser	Lys 310	
Glu	Thr	Val	Ser 340	Leu	Thr	Pro	Phe	Gly	Asp	Ala	Cys	Ser	Arg	Arg	Asp 330	
Leu	Thr	Ala	Ile	His	Glu	Ile	Leu	Glu	Lys	Val	Gly	Tyr	Lys	Asp	Asp 345	
Glu	Gly	Val	Ala	Asn	Glu	Leu	Ser	Phe	Gln	Met	Trp	Thr	Asn	Gln	Ile 360	
Gln 385	Glu	Thr	Leu	Asn	Ser	Lys	Lys	Leu	Gly	Asp	Ser	Ala	Phe	His	Ala 375	
Arg	Asp	Phe	Ser	Thr 405	Ala	Ile	Asp	Cys	Tyr	Thr	Gln	Phe	Ile	Asp	Gly 390	
Gly	Thr	Met	Val	Ser 420	Pro	Thr	Val	Tyr	Ala	Arg	Arg	Cys	Leu	Cys	Tyr 410	
Leu	Met	Asn	Asp	Met	Ala	Gln	Glu	Ala	Leu	Gly	Asp	Ala	Met	Gln	Ala 425	
Gln	Ser	Ile	Ser	Pro	Thr	Trp	Pro	Thr	Ala	Tyr	Tyr	Leu	Gln	Ala	Ala 440	
Ala 465	Leu	Phe	Thr	Leu	Gly	Met	Asp	Asn	Asp	Ala	Gln	Glu	Ser	Leu	Lys 455	
Asp	Gly	Thr	Thr	Leu 485	Glu	Thr	Arg	Lys	Tyr	Arg	Asn					