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<170> PatentIn version 3.5

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<211> 677

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<213> Brassica napus

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

Val Leu Tyr Pro Thr Gly Ile Thr Ser Glu Val Gly Leu Ile Tyr Leu
145 150 155 160

Ala Leu Pro His Ile Lys Thr Ser Glu Met Tyr Ser Val Arg Met Pro
165 170 175

Asn Thr Leu Asn Phe Ser Phe Asp Phe Phe Tyr Ala Thr Ile Leu Ala
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Leu Ala Ile Tyr Val Pro Gly Ser Pro His Met Tyr Arg Tyr Met Leu
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Gly Gln Arg Lys Arg Ala Leu Ser Lys Ser Lys Arg Glu
210 215 220

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<213> Brassica napus

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Lys Pro Leu Gln Leu Ala Gln Thr Ala Ala Val Leu Glu Ile Leu His
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Gly Leu Val Gly Leu Val Arg Ser Pro Val Ser Ala Thr Leu Pro Gln
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Ile Gly Ser Arg Leu Phe Leu Thr Trp Gly Ile Leu Tyr Ser Phe Pro
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Glu Val Gln Ser His Phe Leu Val Ala Ser Leu Val Ile Ser Trp Ser
100 105 110

Ile Thr Glu Ile Ile Arg Tyr Ser Phe Phe Gly Leu Lys Glu Ala Leu
115 120 125

Gly Phe Ala Pro Ser Trp His Leu Trp Leu Arg Tyr Ser Ser Phe Leu
130 135 140

Val Leu Tyr Pro Thr Gly Ile Thr Ser Glu Val Gly Leu Ile Tyr Leu
145 150 155 160

Ala Leu Pro His Ile Lys Thr Ser Glu Met Tyr Ser Val Arg Met Pro
165 170 175

Asn Thr Leu Asn Phe Ser Phe Asp Phe Phe Tyr Ala Thr Leu Leu Val
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Gly Gln Arg Lys Arg Ala Leu Ser Lys Ser Lys Arg Glu
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<213> Euglena gracilis

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 <213> *Euglena gracilis*

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35 40 45

Val His Ala Ala Leu Gly Met Val Arg Ser Pro Val Ala Thr Thr Phe
50 55 60

Met Gln Val Leu Ser Arg Val Met Leu Val Ser Ala Val Gln Tyr Ala
65 70 75 80

Pro Ser Thr Gln Gly Asn Asp Asn Trp Phe Leu Trp Leu Met Cys Leu
85 90 95

Ala Trp Ser Ile Thr Glu Val Val Arg Tyr Ser Tyr Tyr Ser Leu Ser
100 105 110

Gln Gln Gly Val Asn Asp Lys Leu Leu Thr Trp Leu Arg Tyr Ser Leu
115 120 125

Phe Val Val Leu Tyr Pro Ala Gly Val Ala Gly Glu Met Gly Cys Leu
130 135 140

Tyr Lys Ser Ile Pro Ala Met Lys Asp Thr Pro Pro Ala Asp Ala Pro
145 150 155 160

Phe Leu Val Lys His Met Leu Gln Pro Met Leu Lys Asn Ser Leu Gly
165 170 175

Tyr Leu Leu Ile Val Val Pro Val Tyr Val Val Gly Leu Lys Thr Leu
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Tyr Ser Tyr Met Leu Ala Gln Arg Arg Lys Ile Phe Gly Gly Ala Glu
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Ala His Ala Ala Ser Gly Asn Lys Ser Ser Leu Trp Gly Ala Val Gly
35 40 45

Pro Thr Ile Ser Lys Phe Gln Trp Leu Ala Val Leu Glu Val Val His
50 55 60

Ala Ala Leu Gly Met Val Arg Ser Pro Val Ala Thr Thr Phe Met Gln
65 70 75 80

Val Leu Ser Arg Val Met Leu Val Ser Ala Val Gln Tyr Ala Pro Ser
 85 90 95
 Thr Gln Gly Asn Asp Asn Trp Phe Leu Trp Leu Met Cys Leu Ala Trp
 100 105 110
 Ser Ile Thr Glu Val Val Arg Tyr Ser Tyr Tyr Ser Leu Ser Gln Gln
 115 120 125
 Gly Val Asn Asp Lys Leu Leu Thr Trp Leu Arg Tyr Ser Leu Phe Val
 130 135 140
 Val Leu Tyr Pro Ala Gly Val Ala Gly Glu Met Gly Cys Leu Tyr Lys
 145 150 155 160
 Ser Ile Pro Ala Met Lys Asp Thr Pro Pro Ala Asp Ala Pro Phe Leu
 165 170 175
 Val Lys His Met Leu Gln Pro Met Leu Lys Asn Ser Leu Gly Tyr Leu
 180 185 190
 Leu Ile Val Val Pro Val Tyr Val Val Gly Leu Lys Thr Leu Tyr Ser
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 Tyr Met Leu Ala Gln Arg Arg Lys Ile Phe Gly Gly Ala Glu Lys Lys
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 Asn Gln
 225

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35 40 45

Asp Thr Ser Phe His Gly Gly Ala Trp Arg Cys Gly Phe Lys Phe Gly
50 55 60

Ser Ile Gly Val Gly Ser Val Leu Ser Ala Val Phe Thr Asn Tyr Val
65 70 75 80

Leu Lys Thr Tyr Leu Thr Met Tyr Asn Ala Gly Gln Ala Gly Gly Trp
85 90 95

Met Ile Ala Leu Gly Lys Ile Leu Ala His Ala Ala Ser Gly Asn Lys
100 105 110

Ser Ser Leu Trp Gly Ala Val Gly Pro Thr Ile Ser Lys Phe Gln Trp
115 120 125

Leu Ala Val Leu Glu Val Val His Ala Ala Phe Gly Met Val Arg Ser
130 135 140

Pro Val Ala Thr Thr Phe Val Gln Val Leu Ser Arg Val Met Leu Val
145 150 155 160

Ser Ala Val Gln Tyr Ala Pro Ser Thr Gln Gly Asn Asp Asn Trp Phe
165 170 175

Leu Trp Leu Met Cys Leu Ala Trp Ser Ile Thr Glu Val Val Arg Tyr
180 185 190

Ser Tyr Tyr Ser Leu Ser Gln Gln Gly Val Asn Asp Lys Leu Leu Thr
195 200 205

Trp Leu Arg Tyr Ser Leu Phe Val Val Leu Tyr Pro Ala Gly Val Ala

210	215	220
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Pro Pro Ala Asp Ala Pro Phe Leu Val Lys His Met Leu Gln Pro Met		
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Leu Lys Asn Ser Leu Gly Tyr Leu Leu Ile Val Val Pro Val Tyr Val		
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Val Gly Leu Lys Thr Leu Tyr Ser Tyr Met Leu Ala Gln Arg Arg Lys		
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<400> 12
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25

<210> 13
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<220>
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22

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