

13-1230-WO_SequenceListing_ST25.txt
SEQUENCE LISTING

<110> Evolva SA
Hicks, Paula
Mikkelsen, Michael
Houghten-Larsen, Jens
Hansen, Jorgen
Smits, Hans Peter
Mueller, Jens

<120> STEVIOL GLYCOSIDE COMPOSITIONS SENSORY PROPERTIES

<130> 13-1230-WO

<150> US 61/733,693

<151> 2012-12-05

<160> 13

<170> PatentIn version 3.5

<210> 1

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic peptide

<400> 1

Thr Ser Phe Ala Glu Tyr Trp Asn Leu Leu Ser Pro
1 5 10

<210> 2

<211> 1446

<212> DNA

<213> Stevia rebaudiana

<400> 2

atggatgcaa tggcaactac tgagaaaaag cctcatgtga tcttcattcc atttcctgca	60
caatctcaca taaaggcaat gctaaagtta gcacaactat tacaccataa gggattacag	120
ataactttcg tgaataccga cttcatccat aatcaatttc tggaatctag tggccctcat	180
tgtttgagcg gagccccagg gtttagattc gaaacaattc ctgacggtgt ttcacattcc	240
ccagaggcct ccatcccaat aagagagagt ttactgaggt caatagaaac caactttttg	300
gatcgtttca ttgacttggt cacaaaactt ccagaccac caacttgcac aatctctgat	360
ggctttctgt cagtgtttac tatcgacgct gccaaaaagt tgggtatccc agttatgatg	420
tactggactc ttgctgcatg cggtttcatg ggtttctatc acatccattc tcttatcgaa	480
aagggttttg ctccactgaa agatgcatca tacttaacca acggctacct ggatactggt	540
attgactggg taccaggtat ggaaggtata agacttaaag attttccttt ggattgggtct	600
acagacctta atgataaagt attgatgttt actacagaag ctccacaaag atctcataag	660
gtttcacatc atatctttca cacctttgat gaattggaac catcaatcat caaaaccttg	720
tctctaagat acaatcatat ctacactatt ggtccattac aattacttct agatcaaatt	780
cctgaagaga aaaagcaaac tgggtattaca tccttacacg gctactcttt agtgaaagag	840

13-1230-WO_SequenceListing_ST25.txt

```

gaaccagaat gttttcaatg gctacaaagt aaagagccta attctgtggt ctacgtcaac      900
ttcgggaagta caacagtcac gtccttgga gatatgactg aatttggttg gggccttgct      960
aattcaaadc attactttct atggattatc aggtccaatt tggtaatagg ggaaaacgcc      1020
gtattacctc cagaattgga ggaacacatc aaaaagagag gtttcattgc ttcctggtgt      1080
tctcaggaaa aggtattgaa acatccttct gttggtggtt tccttactca ttgcggttg      1140
ggctctacaa tcgaatcact aagtgcagga gttccaatga tttgttggcc atattcatgg      1200
gaccaactta caaattgtag gtatatctgt aaagagtggg aagttggatt agaaatggga      1260
acaaaggtta aacgtgatga agtgaaaaga ttggttcagg agttgatggg ggaagggtggc      1320
cacaagatga gaaacaaggc caaagattgg aaggaaaaag ccagaattgc tattgctcct      1380
aacgggtcat cctctctaaa cattgataag atgggtcaaag agattacagt ctagccaga      1440
aactaa      1446

```

```

<210> 3
<211> 660
<212> PRT
<213> Stevia rebaudiana

```

<400> 3

```

Met Gln Ser Asn Ser Val Lys Ile Ser Pro Leu Asp Leu Val Thr Ala
1           5           10           15

```

```

Leu Phe Ser Gly Lys Val Leu Asp Thr Ser Asn Ala Ser Glu Ser Gly
          20           25           30

```

```

Glu Ser Ala Met Leu Pro Thr Ile Ala Met Ile Met Glu Asn Arg Glu
          35           40           45

```

```

Leu Leu Met Ile Leu Thr Thr Ser Val Ala Val Leu Ile Gly Cys Val
          50           55           60

```

```

Val Val Leu Val Trp Arg Arg Ser Ser Thr Lys Lys Ser Ala Leu Glu
65           70           75           80

```

```

Pro Pro Val Ile Val Val Pro Lys Arg Val Gln Glu Glu Glu Val Asp
          85           90           95

```

```

Asp Gly Lys Lys Lys Val Thr Val Phe Phe Gly Thr Gln Thr Gly Thr
          100           105           110

```

```

Ala Glu Gly Phe Ala Lys Ala Leu Val Glu Glu Ala Lys Ala Arg Tyr
          115           120           125

```

```

Glu Lys Ala Val Phe Lys Val Ile Asp Leu Asp Asp Tyr Ala Ala Asp
          130           135           140

```

```

Asp Asp Glu Tyr Glu Glu Lys Leu Lys Lys Glu Ser Leu Ala Phe Phe
145           150           155           160

```

13-1230-WO_SequenceListing_ST25.txt

Phe Leu Ala Thr Tyr Gly Asp Gly Glu Pro Thr Asp Asn Ala Ala Arg
 165 170 175
 Phe Tyr Lys Trp Phe Thr Glu Gly Asp Ala Lys Gly Glu Trp Leu Asn
 180 185 190
 Lys Leu Gln Tyr Gly Val Phe Gly Leu Gly Asn Arg Gln Tyr Glu His
 195 200 205
 Phe Asn Lys Ile Ala Lys Val Val Asp Asp Gly Leu Val Glu Gln Gly
 210 215 220
 Ala Lys Arg Leu Val Pro Val Gly Leu Gly Asp Asp Asp Gln Cys Ile
 225 230 235 240
 Glu Asp Asp Phe Thr Ala Trp Lys Glu Leu Val Trp Pro Glu Leu Asp
 245 250 255
 Gln Leu Leu Arg Asp Glu Asp Asp Thr Thr Val Ala Thr Pro Tyr Thr
 260 265 270
 Ala Ala Val Ala Glu Tyr Arg Val Val Phe His Glu Lys Pro Asp Ala
 275 280 285
 Leu Ser Glu Asp Tyr Ser Tyr Thr Asn Gly His Ala Val His Asp Ala
 290 295 300
 Gln His Pro Cys Arg Ser Asn Val Ala Val Lys Lys Glu Leu His Ser
 305 310 315 320
 Pro Glu Ser Asp Arg Ser Cys Thr His Leu Glu Phe Asp Ile Ser Asn
 325 330 335
 Thr Gly Leu Ser Tyr Glu Thr Gly Asp His Val Gly Val Tyr Cys Glu
 340 345 350
 Asn Leu Ser Glu Val Val Asn Asp Ala Glu Arg Leu Val Gly Leu Pro
 355 360 365
 Pro Asp Thr Tyr Ser Ser Ile His Thr Asp Ser Glu Asp Gly Ser Pro
 370 375 380
 Leu Gly Gly Ala Ser Leu Pro Pro Pro Phe Pro Pro Cys Thr Leu Arg
 385 390 395 400
 Lys Ala Leu Thr Cys Tyr Ala Asp Val Leu Ser Ser Pro Lys Lys Ser
 405 410 415
 Ala Leu Leu Ala Leu Ala Ala His Ala Thr Asp Pro Ser Glu Ala Asp
 420 425 430

13-1230-WO_SequenceListing_ST25.txt

Arg Leu Lys Phe Leu Ala Ser Pro Ala Gly Lys Asp Glu Tyr Ser Gln
435 440 445

Trp Ile Val Ala Ser Gln Arg Ser Leu Leu Glu Val Met Glu Ala Phe
450 455 460

Pro Ser Ala Lys Pro Ser Leu Gly Val Phe Phe Ala Ser Val Ala Pro
465 470 475 480

Arg Leu Gln Pro Arg Tyr Tyr Ser Ile Ser Ser Ser Pro Lys Met Ala
485 490 495

Pro Asp Arg Ile His Val Thr Cys Ala Leu Val Tyr Glu Lys Thr Pro
500 505 510

Ala Gly Arg Ile His Lys Gly Val Cys Ser Thr Trp Met Lys Asn Ala
515 520 525

Val Pro Met Thr Glu Ser Gln Asp Cys Ser Trp Ala Pro Ile Tyr Val
530 535 540

Arg Thr Ser Asn Phe Arg Leu Pro Ser Asp Pro Lys Val Pro Val Ile
545 550 555 560

Met Ile Gly Pro Gly Thr Gly Leu Ala Pro Phe Arg Gly Phe Leu Gln
565 570 575

Glu Arg Leu Ala Leu Lys Glu Ala Gly Thr Asp Leu Gly Leu Ser Ile
580 585 590

Leu Phe Phe Gly Cys Arg Asn Arg Lys Val Asp Phe Ile Tyr Glu Asn
595 600 605

Glu Leu Asn Asn Phe Val Glu Thr Gly Ala Leu Ser Glu Leu Ile Val
610 615 620

Ala Phe Ser Arg Glu Gly Pro Thr Lys Glu Tyr Val Gln His Lys Met
625 630 635 640

Ser Glu Lys Ala Ser Asp Ile Trp Asn Leu Leu Ser Glu Gly Ala Tyr
645 650 655

Leu Tyr Val Cys
660

<210> 4
<211> 2124
<212> DNA
<213> Stevia rebaudiana

<400> 4
atgcaatcta actccgtgaa gatttcgccg cttgatctgg taactgcgct gtttagcggc 60
aaggtttttg acacatcgaa cgcacgcgaa tcgggagaat ctgctatgct gccgactata 120
Page 4

13-1230-WO_SequenceListing_ST25.txt

gcgatgatta	tgagagaatcg	tgagctgttg	atgataactca	caacgtcggg	tgctgtattg	180
atcggatgcg	ttgtcgtttt	gggtgtggcgg	agatcgtcta	cgaagaagtc	ggcgttggag	240
ccaccggtga	ttgtggttcc	gaagagagtg	caagaggagg	aagttgatga	tggtagaaga	300
aaagttacgg	ttttcttcgg	cacccaaact	ggaacagctg	aaggcttcgc	taaggcactt	360
gttgaggaag	ctaaagctcg	atatgaaaag	gctgtcttta	aagtaattga	tttggatgat	420
tatgctgctg	atgacgatga	gtatgaggag	aaactaaaga	aagaatcttt	ggcctttttc	480
tttttggtta	cgtatggaga	tggtgagcca	acagataatg	ctgccagatt	ttataaatgg	540
tttactgagg	gagatgcaa	aggagaatgg	cttaataagc	ttcaatatgg	agtatttggt	600
ttgggtaaca	gacaatatga	acattttaac	aagatcgcaa	aagtggttga	tgatggtctt	660
gtagaacagg	gtgcaaagcg	tcttgttcct	gttggacttg	gagatgatga	tcaatgtatt	720
gaagatgact	tcaccgcatg	gaaagagtta	gtatggccgg	agttggatca	attacttcgt	780
gatgaggatg	acacaactgt	tgctactcca	tacacagctg	ctgttgacga	atatcgcggt	840
gtttttcatg	aaaaaccaga	cgcgctttct	gaagattata	gttatacaaa	tggccatgct	900
gttcatgatg	ctcaacatcc	atgcagatcc	aacgtggctg	tcaaaaagga	acttcatagt	960
cctgaatctg	accggtcttg	cactcatctt	gaatttgaca	tctcgaacac	cggactatca	1020
tatgaaactg	gggaccatgt	tggagttttac	tgtgaaaact	tgagtgaagt	tgtgaatgat	1080
gctgaaagat	tagtaggatt	accaccagac	acttactcct	ccatccacac	tgatagtga	1140
gacgggtcgc	cacttggcgg	agcctcattg	ccgcctcctt	tcccgccatg	cactttaagg	1200
aaagcattga	cgtgttatgc	tgatgttttg	agttctccca	agaagtcggc	tttgcttgca	1260
ctagctgctc	atgccaccga	tcccagtgaa	gctgatagat	tgaaatttct	tgcatcccc	1320
gccggaaagg	atgaatatcc	tcaatggata	gttgcaagcc	aaagaagtct	ccttgaagtc	1380
atggaagcat	tcccgtcagc	taagccttca	cttggtgttt	tctttgcatc	tgttgccccg	1440
cgcttacaac	caagatacta	ctctatttct	tcctcaccca	agatggcacc	ggataggatt	1500
catgttacat	gtgcattagt	ctatgagaaa	acacctgcag	gccgcatcca	caaaggagtt	1560
tggtcaactt	ggatgaagaa	cgcagtgcc	atgaccgaga	gtcaagattg	cagttggggc	1620
ccaatatacg	tccgaacatc	caatttcaga	ctaccatctg	accctaaggt	cccggttatc	1680
atgattggac	ctggcactgg	tttggctcct	tttagagggt	tccttcaaga	gcggttagct	1740
ttaaaggaag	ccggaactga	cctcggttta	tccattttat	tcttcggatg	taggaatcgc	1800
aaagtggatt	tcatatatga	aaacgagctt	aacaactttg	tgagactgg	tgctctttct	1860
gagcttattg	ttgctttctc	ccgtgaaggc	ccgactaagg	aatatgtgca	acacaagatg	1920
agtgagaagg	cttcggatat	ctggaacttg	ctttctgaag	gagcatatct	atacgtatgt	1980
ggatgatcca	aaggcatggc	caaagatgta	catcgaacc	tccacacaat	tgtgcaagaa	2040
cagggatctc	ttgactcgtc	aaaggcagaa	ctctacgtga	agaatctaca	aatgtcagga	2100
agatacctcc	gtgacgtttg	gtaa				2124

13-1230-WO_SequenceListing_ST25.txt

<210> 5
 <211> 2506
 <212> DNA
 <213> Arabidopsis thaliana

<400> 5
 cgtcagtcac caaggctaatt tcgtcgcgag ttgctacgac gccgttttcgg ttgcttcttg 60
 tttcttttatg tctatcaacc ttcgctcctc cggttggttcg tctccgatct cagctacttt 120
 ggaacgagga ttggactcag aagtacagac aagagctaac aatgtgagct ttgagcaaac 180
 aaaggagaag attaggaaga tggttgagaa agtggagctt tctgttttcgg cctacgatac 240
 tagttgggta gcaatgggtc catcaccgag ctcccaaaat gctccacttt tcccacagtg 300
 tgtgaaatgg ttattggata atcaacatga agatggatct tggggacttg ataaccatga 360
 ccatcaatct cttaagaagg atgtgttatc atctacactg gctagtatcc tcgctgtaaa 420
 gaagtgggga attggtgaaa gacaaataaa caagggtctc cagttttattg agctgaattc 480
 tgcattagtc actgatgaaa ccatacagaa accaacaggg tttgatatta tatttccttg 540
 gatgattaaa tatgctagag atttgaatct gacgattcca ttgggctcag aagtgggtgga 600
 tgacatgata cgaaaaagag atctggatct taaatgtgat agtgaaaagt tttcaaaggg 660
 aagagaagca tatctggcct atgttttaga ggggacaaga aacctaaaag attgggattt 720
 gatagtcaaa tatcaaagga aaaatgggtc actgtttgat tctccagcca caacagcagc 780
 tgcttttact cagtttggga atgatggttg tctccgttat ctctgttctc tccttcagaa 840
 attcgaggct gcagttcctt cagtttatcc atttgatcaa tatgcacgcc ttagtataat 900
 tgtcactctt gaaagcttag gaattgatag agatttcaaa accgaaatca aaagcatatt 960
 ggatgaaacc tatagatatt ggcttcgtgg ggatgaagaa atatgtttgg acttgccac 1020
 ttgtgctttg gctttccgat tattgcttgc tcatggctat gatgtgtctt acgatccgct 1080
 aaaaccattt gcagaagaat ctggtttctc tgatactttg gaaggatatg ttaagaatac 1140
 gttttctgtg ttagaattat ttaaggctgc tcaaagttat ccacatgaat cagctttgaa 1200
 gaagcagtgt tggttgacta aacaatatct ggagatggaa ttgtccagct ggggttaagac 1260
 ctctgttcga gataaatacc tcaagaaaga ggtcgaggat gctcttgctt ttccctccta 1320
 tgcaagccta gaaagatcag atcacaggag aaaaatactc aatggttctg ctgtggaaaa 1380
 caccagagtt acaaaaacct catatcgttt gcacaatatt tgcacctctg atatcctgaa 1440
 gttagctgtg gatgacttca atttctgcca gtccatacac cgtgaagaaa tggaacgtct 1500
 tgataggtgg attgtggaga atagattgca ggaactgaaa tttgccagac agaagctggc 1560
 ttactgttat ttctctgggg ctgcaacttt attttctcca gaactatctg atgctcgtat 1620
 atcgtgggcc aaaggtggag tacttacaac ggtttagtagac gacttctttg atgttgagg 1680
 gtccaaagaa gaactggaaa acctcataca cttggtcgaa aagtgggatt tgaacggtgt 1740
 tcctgagtac agctcagaac atgttgagat catattctca gttctaaggg acaccattct 1800
 cgaaacagga gacaaagcat tcacctatca aggacgcaat gtgacacacc acattgtgaa 1860

13-1230-WO_SequenceListing_ST25.txt

aatttggttg gatctgctca agtctatgtt gagagaagcc gagtgggtcca gtgacaagtc	1920
aacaccaagc ttggaggatt acatggaaaa tgcgtacata tcatttgcatt taggaccaat	1980
tgtcctccca gctacctatc tgatcggacc tccacttcca gagaagacag tcgatagcca	2040
ccaatataat cagctctaca agctcgtgag cactatgggt cgtcttctaa atgacataca	2100
aggttttaag agagaaagcg cggaagggaa gctgaatgag gtttcattgc acatgaaaca	2160
cgagagagac aatcgagca aagaagtgat catagaatcg atgaaagggt tagcagagag	2220
aaagagggaa gaattgcata agctagtttt ggaggagaaa ggaagtgtgg ttccaaggga	2280
atgcaaagaa gcgttcttga aaatgagcaa agtgttgaac ttattttaca ggaaggacga	2340
tggattcaca tcaaatgata tgatgagtct tgttaaatca gtgatctacg agcctgttag	2400
cttacagaaa gaatctttaa cttgatccaa gttgatctgg caggtaaact cagtaaatga	2460
aaataagact ttgggtcttct tctttgttgc ttcagaacaa gaagag	2506

<210> 6
 <211> 1503
 <212> DNA
 <213> Stevia rebaudiana

<400> 6	
atggaagcct cttacctata ctttctatt ttgcttttac tggcatcata cctgttcacc	60
actcaactta gaaggaagag cgctaactta ccaccaaccg tgtttccatc aataccaatc	120
attggacact tatacttact caaaaagcct ctttatagaa ctttagcaaa aattgccgct	180
aagtacggac caatactgca attacaactc ggctacagac gtgttctggt gatttcctca	240
ccatcagcag cagaagagt ctttaccat aacgatgtaa tcttcgcaaa tagacctag	300
acattgtttg gcaaaatagt ggggtgaaca tcccttgga gtttatccta cggcgatcaa	360
tggcgtaatc taaggagagt agcttctatc gaaatcctat cagttcatag gttgaacgaa	420
tttcatgata tcagagtgga tgagaacaga ttgttaatta gaaaacttag aagttcatct	480
tctcctgtta ctcttataac agtcttttat gctctaacat tgaacgtcat tatgagaatg	540
atctctggca aaagatattt cgacagtggg gatagagaat tggaggagga aggtaagaga	600
tttcgagaaa tcttagacga aacgttgctt ctagccggtg cttctaattg tggcgactac	660
ttaccaatat tgaactggtt gggagttaag tctcttgaaa agaaattgat cgctttgcag	720
aaaaagagag atgacttttt ccagggtttg attgaacagg ttagaaaatc tcgtggtgct	780
aaagtaggca aaggtagaaa aacgatgata gaactcttat tatctttgca agagtcagaa	840
cctgagtact atacagatgc tatgataaga tcttttgtcc taggtctgct ggctgcaggt	900
agtgatactt cagcgggcac tatggaatgg gccatgagct tactgggtcaa tcacccacat	960
gtattgaaga aagctcaagc tgaaatcgat agagttatcg gtaataacag attgattgac	1020
gagtcagaca ttggaaatat cccttacatc ggggtgtatta tcaatgaaac tctaagactc	1080
tatccagcag ggccattgtt gttcccatat gaaagtcttg ccgactgcgt tatttccggt	1140
tacaatatac ctagaggtag aatgttaatc gtaaaccaat gggcgattca tcacgatcct	1200

13-1230-WO_SequenceListing_ST25.txt

aaagtctggg atgatacctga aacctttaaa cctgaaagat ttcaaggatt agaaggaact 1260
 agagatgggt tcaaacttat gccattcggg tctgggagaa gaggatgtcc aggtgaaggt 1320
 ttggcaataa ggctgttagg gatgacacta ggctcagtga tccaatgttt tgattgggag 1380
 agagtaggag atgagatggg tgacatgaca gaaggtttgg gtgtcacact tcctaaggcc 1440
 gttccattag ttgccaaatg taagccacgt tccgaaatga ctaatctcct atccgaactt 1500
 taa 1503

<210> 7
 <211> 500
 <212> PRT
 <213> Stevia rebaudiana
 <400> 7

Met Glu Ala Ser Tyr Leu Tyr Ile Ser Ile Leu Leu Leu Leu Ala Ser
 1 5 10 15

Tyr Leu Phe Thr Thr Gln Leu Arg Arg Lys Ser Ala Asn Leu Pro Pro
 20 25 30

Thr Val Phe Pro Ser Ile Pro Ile Ile Gly His Leu Tyr Leu Leu Lys
 35 40 45

Lys Pro Leu Tyr Arg Thr Leu Ala Lys Ile Ala Ala Lys Tyr Gly Pro
 50 55 60

Ile Leu Gln Leu Gln Leu Gly Tyr Arg Arg Val Leu Val Ile Ser Ser
 65 70 75 80

Pro Ser Ala Ala Glu Glu Cys Phe Thr Asn Asn Asp Val Ile Phe Ala
 85 90 95

Asn Arg Pro Lys Thr Leu Phe Gly Lys Ile Val Gly Gly Thr Ser Leu
 100 105 110

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

Ser Ile Glu Ile Leu Ser Val His Arg Leu Asn Glu Phe His Asp Ile
 130 135 140

Arg Val Asp Glu Asn Arg Leu Leu Ile Arg Lys Leu Arg Ser Ser Ser
 145 150 155 160

Ser Pro Val Thr Leu Ile Thr Val Phe Tyr Ala Leu Thr Leu Asn Val
 165 170 175

Ile Met Arg Met Ile Ser Gly Lys Arg Tyr Phe Asp Ser Gly Asp Arg
 180 185 190

Glu Leu Glu Glu Glu Gly Lys Arg Phe Arg Glu Ile Leu Asp Glu Thr

195

200

205

Leu Leu Leu Ala Gly Ala Ser Asn Val Gly Asp Tyr Leu Pro Ile Leu
 210 215 220

Asn Trp Leu Gly Val Lys Ser Leu Glu Lys Lys Leu Ile Ala Leu Gln
 225 230 235 240

Lys Lys Arg Asp Asp Phe Phe Gln Gly Leu Ile Glu Gln Val Arg Lys
 245 250 255

Ser Arg Gly Ala Lys Val Gly Lys Gly Arg Lys Thr Met Ile Glu Leu
 260 265 270

Leu Leu Ser Leu Gln Glu Ser Glu Pro Glu Tyr Tyr Thr Asp Ala Met
 275 280 285

Ile Arg Ser Phe Val Leu Gly Leu Leu Ala Ala Gly Ser Asp Thr Ser
 290 295 300

Ala Gly Thr Met Glu Trp Ala Met Ser Leu Leu Val Asn His Pro His
 305 310 315 320

Val Leu Lys Lys Ala Gln Ala Glu Ile Asp Arg Val Ile Gly Asn Asn
 325 330 335

Arg Leu Ile Asp Glu Ser Asp Ile Gly Asn Ile Pro Tyr Ile Gly Cys
 340 345 350

Ile Ile Asn Glu Thr Leu Arg Leu Tyr Pro Ala Gly Pro Leu Leu Phe
 355 360 365

Pro His Glu Ser Ser Ala Asp Cys Val Ile Ser Gly Tyr Asn Ile Pro
 370 375 380

Arg Gly Thr Met Leu Ile Val Asn Gln Trp Ala Ile His His Asp Pro
 385 390 395 400

Lys Val Trp Asp Asp Pro Glu Thr Phe Lys Pro Glu Arg Phe Gln Gly
 405 410 415

Leu Glu Gly Thr Arg Asp Gly Phe Lys Leu Met Pro Phe Gly Ser Gly
 420 425 430

Arg Arg Gly Cys Pro Gly Glu Gly Leu Ala Ile Arg Leu Leu Gly Met
 435 440 445

Thr Leu Gly Ser Val Ile Gln Cys Phe Asp Trp Glu Arg Val Gly Asp
 450 455 460

Glu Met Val Asp Met Thr Glu Gly Leu Gly Val Thr Leu Pro Lys Ala
 465 470 475 480

13-1230-WO_SequenceListing_ST25.txt

Val Pro Leu Val Ala Lys Cys Lys Pro Arg Ser Glu Met Thr Asn Leu
 485 490 495

Leu Ser Glu Leu
 500

<210> 8
 <211> 2489
 <212> DNA
 <213> Zea mays

<400> 8
 atggttttgt cttcttcttg tactacagta ccacacttat cttcattagc tgtcgtgcaa 60
 cttggtcctt ggagcagtag gattaaaaag aaaaccgata ctggtgcagt accagccgct 120
 gcaggaaggt ggagaagggc cttggctaga gcacagcaca catcagaatc cgcagctgtc 180
 gcaaagggca gcagtttgac ccctatagtg agaactgacg ctgagtcaag gagaacaaga 240
 tggccaaccg atgacgatga cgccgaacct ttagtggatg agatcagggc aatgcttact 300
 tccatgtctg atggtgacat ttccgtgagc gcatacgata cagcctgggt cggatttggtt 360
 ccaagattag acggcgggtga aggtcctcaa tttccagcag ctgtgagatg gataagaaat 420
 aaccagttgc ctgacggaag ttggggcgat gccgcattat tctctgccta tgacaggctt 480
 atcaataccc ttgcctgcgt tgtaactttg acaaggtggt ccctagaacc agagatgaga 540
 ggtagaggac tatctttttt gggtaggaac atgtggaaat tagcaactga agatgaagag 600
 tcaatgccta ttggcttcga attagcattt ccatctttga tagagcttgc taagagccta 660
 ggtgtccatg acttccctta tgatcaccag gccctacaag gaatctactc ttcaagagag 720
 atcaaaatga agaggattcc aaaagaagtg atgcataccg ttccaacatc aatattgcac 780
 agtttgagg gtagccttg cctagattgg gctaaactac ttaaactaca gagcagcgac 840
 ggaagttttt tgttctcacc agctgccact gcatatgctt taatgaatac cggagatgac 900
 aggtgtttta gctacatcga tagaacagta aagaaattca acggcggcgt ccctaattgtt 960
 tatccagtgg atctatttga acatatttgg gccgttgata gacttgaaag attaggaatc 1020
 tccaggtact tccaaaagga gatcgaacaa tgcattgatt atgtaaacag gcattggact 1080
 gaggacggt tttgttgggc aaggaactct gatgtcaaag aggtggacga cacagctatg 1140
 gccttttagac ttcttaggtt gcacggctac agcgtcagtc ctgatgtgtt taaaaacttc 1200
 gaaaagacgg tgaatttttc gcatttgtcg gacagtctaa tcaagctgtt accggtatgt 1260
 acaacttaaa cagagcaagc cagatatcct tcccaggcga ggatgtgctt catagagctg 1320
 gtgccttctc atatgagttc ttgaggagaa aagaagcaga gggagctttg agggacaagt 1380
 ggatcatttc taaagatcta cctggtgaag ttgtgtatac tttggatttt ccatggtacg 1440
 gcaacttacc tagagtcgag gccagagact acctagagca atacggaggt ggtgatgacg 1500
 tttggattgg caagacattg tataggatgc cacttgtaaa caatgatgta tatttggaaat 1560
 tggcaagaat ggatttcaac cactgccagg ctttgcata gttagagtgg caaggactaa 1620

13-1230-WO_SequenceListing_ST25.txt

```

aaagatggta tactgaaaat aggttgatgg actttggtgt cgcccaagaa gatgccctta 1680
gagcttattt tcttgagcc gcatctgttt acgagccttg tagagctgcc gagaggcttg 1740
catgggctag agccgcaata ctagctaacg ccgtgagcac ccacttaaga aatagcccat 1800
cattcagaga aaggttagag cattctctta ggtgtagacc tagtgaagag acagatggct 1860
cctggtttaa ctctcaagt ggctctgatg cagttttagt aaaggctgtc ttaagactta 1920
ctgattcatt agccagggaa gcacagccaa tccatggagg tgaccagaa gatattatac 1980
acaagttgtt aagatctgct tgggccgagt gggttagga aaaggcagac gctgccgata 2040
gcgtgtgcaa tggtagttct gcagtagaac aagagggatc aagaatggc catgataaac 2100
agacctgtct attattggct agaatgatcg aaatttctgc cggtagggca gctggtgaag 2160
cagccagtga ggacggcgat agaagaataa ttcaattaac aggtccatc tgcgacagtc 2220
ttaagcaaaa aatgctagtt tcacaggacc ctgaaaaaaaa tgaagagatg atgtctcacg 2280
tggatgacga attgaagttg aggattagag agttcgttca atatttgctt agactagggtg 2340
aaaaaaagac tggatctagc gaaaccaggc aaacattttt aagtatagtg aaatcatggt 2400
actatgctgc tcattgccca cctcatgtcg ttgatagaca cattagtaga gtgattttcg 2460
agccagtaag tgccgcaaag taaccgcgg 2489

```

<210> 9
 <211> 827
 <212> PRT
 <213> Zea mays

<400> 9

Met Val Leu Ser Ser Ser Cys Thr Thr Val Pro His Leu Ser Ser Leu
 1 5 10 15

Ala Val Val Gln Leu Gly Pro Trp Ser Ser Arg Ile Lys Lys Lys Thr
 20 25 30

Asp Thr Val Ala Val Pro Ala Ala Ala Gly Arg Trp Arg Arg Ala Leu
 35 40 45

Ala Arg Ala Gln His Thr Ser Glu Ser Ala Ala Val Ala Lys Gly Ser
 50 55 60

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

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

Ala Met Leu Thr Ser Met Ser Asp Gly Asp Ile Ser Val Ser Ala Tyr
 100 105 110

Asp Thr Ala Trp Val Gly Leu Val Pro Arg Leu Asp Gly Gly Glu Gly
 115 120 125

13-1230-WO_SequenceListing_ST25.txt

Pro Gln Phe Pro Ala Ala Val Arg Trp Ile Arg Asn Asn Gln Leu Pro
130 135 140

Asp Gly Ser Trp Gly Asp Ala Ala Leu Phe Ser Ala Tyr Asp Arg Leu
145 150 155 160

Ile Asn Thr Leu Ala Cys Val Val Thr Leu Thr Arg Trp Ser Leu Glu
165 170 175

Pro Glu Met Arg Gly Arg Gly Leu Ser Phe Leu Gly Arg Asn Met Trp
180 185 190

Lys Leu Ala Thr Glu Asp Glu Glu Ser Met Pro Ile Gly Phe Glu Leu
195 200 205

Ala Phe Pro Ser Leu Ile Glu Leu Ala Lys Ser Leu Gly Val His Asp
210 215 220

Phe Pro Tyr Asp His Gln Ala Leu Gln Gly Ile Tyr Ser Ser Arg Glu
225 230 235 240

Ile Lys Met Lys Arg Ile Pro Lys Glu Val Met His Thr Val Pro Thr
245 250 255

Ser Ile Leu His Ser Leu Glu Gly Met Pro Gly Leu Asp Trp Ala Lys
260 265 270

Leu Leu Lys Leu Gln Ser Ser Asp Gly Ser Phe Leu Phe Ser Pro Ala
275 280 285

Ala Thr Ala Tyr Ala Leu Met Asn Thr Gly Asp Asp Arg Cys Phe Ser
290 295 300

Tyr Ile Asp Arg Thr Val Lys Lys Phe Asn Gly Gly Val Pro Asn Val
305 310 315 320

Tyr Pro Val Asp Leu Phe Glu His Ile Trp Ala Val Asp Arg Leu Glu
325 330 335

Arg Leu Gly Ile Ser Arg Tyr Phe Gln Lys Glu Ile Glu Gln Cys Met
340 345 350

Asp Tyr Val Asn Arg His Trp Thr Glu Asp Gly Ile Cys Trp Ala Arg
355 360 365

Asn Ser Asp Val Lys Glu Val Asp Asp Thr Ala Met Ala Phe Arg Leu
370 375 380

Leu Arg Leu His Gly Tyr Ser Val Ser Pro Asp Val Phe Lys Asn Phe
385 390 395 400

13-1230-WO_SequenceListing_ST25.txt

Glu Lys Asp Gly Glu Phe Phe Ala Phe Val Gly Gln Ser Asn Gln Ala
 405 410 415
 Val Thr Gly Met Tyr Asn Leu Asn Arg Ala Ser Gln Ile Ser Phe Pro
 420 425 430
 Gly Glu Asp Val Leu His Arg Ala Gly Ala Phe Ser Tyr Glu Phe Leu
 435 440 445
 Arg Arg Lys Glu Ala Glu Gly Ala Leu Arg Asp Lys Trp Ile Ile Ser
 450 455 460
 Lys Asp Leu Pro Gly Glu Val Val Tyr Thr Leu Asp Phe Pro Trp Tyr
 465 470 475 480
 Gly Asn Leu Pro Arg Val Glu Ala Arg Asp Tyr Leu Glu Gln Tyr Gly
 485 490 495
 Gly Gly Asp Asp Val Trp Ile Gly Lys Thr Leu Tyr Arg Met Pro Leu
 500 505 510
 Val Asn Asn Asp Val Tyr Leu Glu Leu Ala Arg Met Asp Phe Asn His
 515 520 525
 Cys Gln Ala Leu His Gln Leu Glu Trp Gln Gly Leu Lys Arg Trp Tyr
 530 535 540
 Thr Glu Asn Arg Leu Met Asp Phe Gly Val Ala Gln Glu Asp Ala Leu
 545 550 555 560
 Arg Ala Tyr Phe Leu Ala Ala Ala Ser Val Tyr Glu Pro Cys Arg Ala
 565 570 575
 Ala Glu Arg Leu Ala Trp Ala Arg Ala Ala Ile Leu Ala Asn Ala Val
 580 585 590
 Ser Thr His Leu Arg Asn Ser Pro Ser Phe Arg Glu Arg Leu Glu His
 595 600 605
 Ser Leu Arg Cys Arg Pro Ser Glu Glu Thr Asp Gly Ser Trp Phe Asn
 610 615 620
 Ser Ser Ser Gly Ser Asp Ala Val Leu Val Lys Ala Val Leu Arg Leu
 625 630 635 640
 Thr Asp Ser Leu Ala Arg Glu Ala Gln Pro Ile His Gly Gly Asp Pro
 645 650 655
 Glu Asp Ile Ile His Lys Leu Leu Arg Ser Ala Trp Ala Glu Trp Val
 660 665 670

13-1230-WO_SequenceListing_ST25.txt

Arg Glu Lys Ala Asp Ala Ala Asp Ser Val Cys Asn Gly Ser Ser Ala
675 680 685

Val Glu Gln Glu Gly Ser Arg Met Val His Asp Lys Gln Thr Cys Leu
690 695 700

Leu Leu Ala Arg Met Ile Glu Ile Ser Ala Gly Arg Ala Ala Gly Glu
705 710 715 720

Ala Ala Ser Glu Asp Gly Asp Arg Arg Ile Ile Gln Leu Thr Gly Ser
725 730 735

Ile Cys Asp Ser Leu Lys Gln Lys Met Leu Val Ser Gln Asp Pro Glu
740 745 750

Lys Asn Glu Glu Met Met Ser His Val Asp Asp Glu Leu Lys Leu Arg
755 760 765

Ile Arg Glu Phe Val Gln Tyr Leu Leu Arg Leu Gly Glu Lys Lys Thr
770 775 780

Gly Ser Ser Glu Thr Arg Gln Thr Phe Leu Ser Ile Val Lys Ser Cys
785 790 795 800

Tyr Tyr Ala Ala His Cys Pro Pro His Val Val Asp Arg His Ile Ser
805 810 815

Arg Val Ile Phe Glu Pro Val Ser Ala Ala Lys
820 825

<210> 10
<211> 712
<212> PRT
<213> Arabidopsis thaliana
<400> 10

Met Ser Ser Ser Ser Ser Ser Ser Thr Ser Met Ile Asp Leu Met Ala
1 5 10 15

Ala Ile Ile Lys Gly Glu Pro Val Ile Val Ser Asp Pro Ala Asn Ala
20 25 30

Ser Ala Tyr Glu Ser Val Ala Ala Glu Leu Ser Ser Met Leu Ile Glu
35 40 45

Asn Arg Gln Phe Ala Met Ile Val Thr Thr Ser Ile Ala Val Leu Ile
50 55 60

Gly Cys Ile Val Met Leu Val Trp Arg Arg Ser Gly Ser Gly Asn Ser
65 70 75 80

Lys Arg Val Glu Pro Leu Lys Pro Leu Val Ile Lys Pro Arg Glu Glu
85 90 95

13-1230-WO_SequenceListing_ST25.txt

Glu Ile Asp Asp Gly Arg Lys Lys Val Thr Ile Phe Phe Gly Thr Gln
 100 105 110
 Thr Gly Thr Ala Glu Gly Phe Ala Lys Ala Leu Gly Glu Glu Ala Lys
 115 120 125
 Ala Arg Tyr Glu Lys Thr Arg Phe Lys Ile Val Asp Leu Asp Asp Tyr
 130 135 140
 Ala Ala Asp Asp Asp Glu Tyr Glu Glu Lys Leu Lys Lys Glu Asp Val
 145 150 155 160
 Ala Phe Phe Phe Leu Ala Thr Tyr Gly Asp Gly Glu Pro Thr Asp Asn
 165 170 175
 Ala Ala Arg Phe Tyr Lys Trp Phe Thr Glu Gly Asn Asp Arg Gly Glu
 180 185 190
 Trp Leu Lys Asn Leu Lys Tyr Gly Val Phe Gly Leu Gly Asn Arg Gln
 195 200 205
 Tyr Glu His Phe Asn Lys Val Ala Lys Val Val Asp Asp Ile Leu Val
 210 215 220
 Glu Gln Gly Ala Gln Arg Leu Val Gln Val Gly Leu Gly Asp Asp Asp
 225 230 235 240
 Gln Cys Ile Glu Asp Asp Phe Thr Ala Trp Arg Glu Ala Leu Trp Pro
 245 250 255
 Glu Leu Asp Thr Ile Leu Arg Glu Glu Gly Asp Thr Ala Val Ala Thr
 260 265 270
 Pro Tyr Thr Ala Ala Val Leu Glu Tyr Arg Val Ser Ile His Asp Ser
 275 280 285
 Glu Asp Ala Lys Phe Asn Asp Ile Thr Leu Ala Asn Gly Asn Gly Tyr
 290 295 300
 Thr Val Phe Asp Ala Gln His Pro Tyr Lys Ala Asn Val Ala Val Lys
 305 310 315 320
 Arg Glu Leu His Thr Pro Glu Ser Asp Arg Ser Cys Ile His Leu Glu
 325 330 335
 Phe Asp Ile Ala Gly Ser Gly Leu Thr Met Lys Leu Gly Asp His Val
 340 345 350
 Gly Val Leu Cys Asp Asn Leu Ser Glu Thr Val Asp Glu Ala Leu Arg
 355 360 365

13-1230-WO_SequenceListing_ST25.txt

Leu 370 Leu Asp Met Ser Pro Asp 375 Thr Tyr Phe Ser Leu 380 His Ala Glu Lys
 Glu 385 Asp Gly Thr Pro Ile 390 Ser Ser Ser Leu 395 Pro Pro Phe Pro 400
 Cys Asn Leu Arg Thr 405 Ala Leu Thr Arg Tyr 410 Ala Cys Leu Leu Ser 415 Ser
 Pro Lys Lys Ser 420 Ala Leu Val Ala Leu 425 Ala Ala His Ala Ser 430 Asp Pro
 Thr Glu 435 Ala Glu Arg Leu Lys His 440 Leu Ala Ser Pro Ala 445 Gly Lys Asp
 Glu 450 Tyr Ser Lys Trp Val Val 455 Glu Ser Gln Arg Ser 460 Leu Leu Glu Val
 Met 465 Ala Glu Phe Pro Ser 470 Ala Lys Pro Pro Leu 475 Gly Val Phe Phe Ala 480
 Gly Val Ala Pro Arg 485 Leu Gln Pro Arg Phe 490 Tyr Ser Ile Ser Ser 495 Ser
 Pro Lys Ile Ala 500 Glu Thr Arg Ile His 505 Val Thr Cys Ala Leu 510 Val Tyr
 Glu Lys Met 515 Pro Thr Gly Arg Ile 520 His Lys Gly Val Cys 525 Ser Thr Trp
 Met 530 Lys Asn Ala Val Pro Tyr 535 Glu Lys Ser Glu Lys 540 Leu Phe Leu Gly
 Arg 545 Pro Ile Phe Val Arg 550 Gln Ser Asn Phe Lys 555 Leu Pro Ser Asp Ser 560
 Lys Val Pro Ile Ile 565 Met Ile Gly Pro Gly 570 Thr Gly Leu Ala Pro 575 Phe
 Arg Gly Phe Leu 580 Gln Glu Arg Leu Ala 585 Leu Val Glu Ser Gly 590 Val Glu
 Leu Gly Pro 595 Ser Val Leu Phe Phe 600 Gly Cys Arg Asn Arg 605 Arg Met Asp
 Phe Ile 610 Tyr Glu Glu Glu Leu 615 Gln Arg Phe Val Glu 620 Ser Gly Ala Leu
 Ala 625 Glu Leu Ser Val Ala 630 Phe Ser Arg Glu Gly 635 Pro Thr Lys Glu Tyr 640

13-1230-WO_SequenceListing_ST25.txt

Val Gln His Lys Met Met Asp Lys Ala Ser Asp Ile Trp Asn Met Ile
645 650 655

Ser Gln Gly Ala Tyr Leu Tyr Val Cys Gly Asp Ala Lys Gly Met Ala
660 665 670

Arg Asp Val His Arg Ser Leu His Thr Ile Ala Gln Glu Gln Gly Ser
675 680 685

Met Asp Ser Thr Lys Ala Glu Gly Phe Val Lys Asn Leu Gln Thr Ser
690 695 700

Gly Arg Tyr Leu Arg Asp Val Trp
705 710

<210> 11
<211> 2139
<212> DNA
<213> Arabidopsis thaliana

<400> 11
atgtcttcct cttcctcttc cagtacctct atgattgatt tgatggctgc tattattaaa 60
ggatgaaccag ttatcgtctc cgaccagca aatgcctctg cttatgaatc agttgctgca 120
gaattgtctt caatgttgat cgaaaacaga caattcgcca tgatcgtaac tacatcaatc 180
gctgttttga tcggttgat tgatcatgttg gtatggagaa gatccggtag tggtaattct 240
aaaagagtcg aacctttgaa accattagta attaagccaa gagaagaaga aatagatgac 300
ggtagaaaga aagttacaat atttttcggg acccaaactg gtacagctga aggttttgca 360
aaagccttag gtgaagaagc taaggcaaga tacgaaaaga ctagattcaa gatagtcgat 420
ttggatgact atgccgctga tgacgatgaa tacgaagaaa agttgaagaa agaagatggt 480
gcatttttct ttttggaac ctatggtgac ggtgaaccaa ctgacaatgc agccagattc 540
tacaaatggt ttacagaggg taatgatcgt ggtgaatggt tgaaaaactt aaagtacggt 600
gttttcggtt tgggtaacag acaatacgaa catttcaaca aagttgcaaa gggtgtcgac 660
gatatttttg tcgaacaagg tgctcaaaga ttagtccaag taggtttggg tgacgatgac 720
caatgtatag aagatgactt tactgcctgg agagaagctt tgtggcctga attagacaca 780
atcttgagag aagaaggtga caccgccgtt gctaccccat atactgctgc agtattagaa 840
tacagagttt ccatccatga tagtgaagac gcaaagttta atgatatcac tttggccaat 900
ggtaacggtt atacagtttt cgatgcacaa cacccttaca aagctaactg tgcagtcaag 960
agagaattac atacaccaga atccgacaga agttgtatag acttggaatt tgatatcgct 1020
ggttccggtt taaccatgaa gttgggtgac catgtaggtg ttttatgcca caatttgtct 1080
gaaactgttg atgaagcatt gagattgttg gatatgtccc ctgacactta ttttagtttg 1140
cacgctgaaa aagaagatgg tacaccaatt tccagttctt taccacctcc attccctcca 1200
tgtaacttaa gaacagcctt gaccagatac gcttgcttgt tatcatcccc taaaaagtcc 1260
gccttggttg ctttagccgc tcatgctagt gatcctactg aagcagaaag attgaaacac 1320

13-1230-WO_SequenceListing_ST25.txt

ttagcatctc	cagccggtaa	agatgaatat	tcaaagtggg	tagttgaatc	tcaaagatca	1380
ttgttagaag	ttatggcaga	atttccatct	gccaaagcctc	cattaggtgt	cttcttttgc	1440
ggtgtagcac	ctagattgca	accaagattc	tactcaatca	gttctttcacc	taagatcgct	1500
gaaactagaa	ttcatgttac	atgtgcatta	gtctacgaaa	agatgccaac	cggtagaatt	1560
cacaaggggtg	tatgctctac	ttggatgaaa	aatgctgttc	cttacgaaaa	atcagaaaag	1620
ttgttcttag	gtagaccaat	cttcgtaaga	caatcaaact	tcaagttgcc	ttctgattca	1680
aagggtccaa	taatcatgat	aggtcctggg	acaggttttag	ccccattcag	aggtttcttg	1740
caagaaagat	tggctttagt	tgaatctggg	gtcgaattag	gtccttcagt	tttgttcttt	1800
ggtttagaaa	acagaagaat	ggatttcattc	tatgaagaag	aattgcaaag	attcgtcgaa	1860
tctggtgcat	tgccgaatt	atctgtagct	ttttcaagag	aagggtccaa	taaggaatac	1920
gttcaacata	agatgatgga	taaggcatcc	gacatatgga	acatgatcag	tcaaggtgct	1980
tatttgtacg	tttgcggtga	cgcaaagggt	atggccagag	atgtccatag	atctttgcac	2040
acaattgctc	aagaacaagg	ttccatggat	agtaccaaag	ctgaagggtt	cgtaaagaac	2100
ttacaaactt	ccggtagata	cttgagagat	gtctggtga			2139

<210> 12
 <211> 1377
 <212> DNA
 <213> Stevia rebaudiana

<400> 12	
atggaaaaca	agaccgaaac aacagttaga cgtaggcgta gaatcattct gtttccagta 60
ccttttcaag	ggcacatcaa tccaatacta caactagcca acgttttgta ctctaaagggt 120
ttttctatta	caatctttca caccaatttc aacaaaccaa aaacatccaa ttaccacat 180
ttcacattca	gattcatact tgataatgat ccacaagatg aacgtatttc aaacttacct 240
accacgggtc	ctttagctgg aatgagaatt ccaatcatca atgaacatgg tgccgatgag 300
cttagaagag	aattagagtt acttatgttg gcatccgaag aggacgagga agtctcttgt 360
ctgattactg	acgctctatg gtactttgcc caatctgtgg ctgatagttt gaatttgagg 420
agattggtac	taatgacatc cagtctgttt aactttcacg ctcatgttag ttaccacaa 480
tttgacgaat	tggtgatactt ggaccctgat gacaagacta ggtagagga acaggcctct 540
ggttttccta	tggtgaaagt caaagatatc aagtctgcct attctaattg gcaaatcttg 600
aaagagatct	taggaaagat gatcaaacag acaaaggctt catctggagt gatttggaac 660
agtttcaaag	agttagaaga gtctgaattg gagactgtaa tcagagaaat tccagcacct 720
tcattcctga	taccattacc aaaacatttg actgcttcct cttcctcttt gttggatcat 780
gacagaacag	tttttcaatg gttggaccaa caaccaccta gttctgtttt gtacgtgtca 840
tttggtagta	cttctgaagt cgatgaaaag gacttccttg aaatcgcaag aggcttagtc 900
gatagtaagc	agtcattcct ttgggtcgtg cgtccagggt tcgtgaaagg ctcaacatgg 960
gtcgaaccac	ttccagatgg ttttctaggc gaaagaggta gaatagtcaa atgggttcct 1020

13-1230-WO_SequenceListing_ST25.txt

```

caacaggaag ttttagctca tggcgctatt ggggcattct ggactcattc cggatggaat    1080
tcaacttttag aatcagtatg cgaaggggta cctatgatct tttcagattt tggctcttgat    1140
caaccactga acgcaagata catgtctgat gttttgaaag tgggtgtata tctagaaaat    1200
ggctgggaaa ggggtgaaat agctaataca ataagacgtg ttatggttga tgaagagggg    1260
gagtatatca gacaaaacgc aagagtgcgt aagcaaaagg cgcacgtttc tctaataaag    1320
ggaggctctt catacgaatc cttagaatct cttgtttcct acatttcac actgtaa    1377

```

```

<210> 13
<211> 473
<212> PRT
<213> Stevia rebaudiana

```

```
<400> 13
```

```

Met Ala Thr Ser Asp Ser Ile Val Asp Asp Arg Lys Gln Leu His Val
1          5          10          15

```

```

Ala Thr Phe Pro Trp Leu Ala Phe Gly His Ile Leu Pro Tyr Leu Gln
          20          25          30

```

```

Leu Ser Lys Leu Ile Ala Glu Lys Gly His Lys Val Ser Phe Leu Ser
          35          40          45

```

```

Thr Thr Arg Asn Ile Gln Arg Leu Ser Ser His Ile Ser Pro Leu Ile
          50          55          60

```

```

Asn Val Val Gln Leu Thr Leu Pro Arg Val Gln Glu Leu Pro Glu Asp
65          70          75          80

```

```

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

```

```

Lys Ala Ser Asp Gly Leu Gln Pro Glu Val Thr Arg Phe Leu Glu Gln
          100          105          110

```

```

His Ser Pro Asp Trp Ile Ile Tyr Asp Tyr Thr His Tyr Trp Leu Pro
          115          120          125

```

```

Ser Ile Ala Ala Ser Leu Gly Ile Ser Arg Ala His Phe Ser Val Thr
          130          135          140

```

```

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

```

```

Asn Gly Ser Asp Gly Arg Thr Thr Val Glu Asp Leu Thr Thr Pro Pro
          165          170          175

```

```

Lys Trp Phe Pro Phe Pro Thr Lys Val Cys Trp Arg Lys His Asp Leu
          180          185          190

```

13-1230-WO_SequenceListing_ST25.txt

Ala Arg Leu Val Pro Tyr Lys Ala Pro Gly Ile Ser Asp Gly Tyr Arg
195 200 205

Met Gly Leu Val Leu Lys Gly Ser Asp Cys Leu Leu Ser Lys Cys Tyr
210 215 220

His Glu Phe Gly Thr Gln Trp Leu Pro Leu Leu Glu Thr Leu His Gln
225 230 235 240

Val Pro Val Val Pro Val Gly Leu Leu Pro Pro Glu Ile Pro Gly Asp
245 250 255

Glu Lys Asp Glu Thr Trp Val Ser Ile Lys Lys Trp Leu Asp Gly Lys
260 265 270

Gln Lys Gly Ser Val Val Tyr Val Ala Leu Gly Ser Glu Val Leu Val
275 280 285

Ser Gln Thr Glu Val Val Glu Leu Ala Leu Gly Leu Glu Leu Ser Gly
290 295 300

Leu Pro Phe Val Trp Ala Tyr Arg Lys Pro Lys Gly Pro Ala Lys Ser
305 310 315 320

Asp Ser Val Glu Leu Pro Asp Gly Phe Val Glu Arg Thr Arg Asp Arg
325 330 335

Gly Leu Val Trp Thr Ser Trp Ala Pro Gln Leu Arg Ile Leu Ser His
340 345 350

Glu Ser Val Cys Gly Phe Leu Thr His Cys Gly Ser Gly Ser Ile Val
355 360 365

Glu Gly Leu Met Phe Gly His Pro Leu Ile Met Leu Pro Ile Phe Gly
370 375 380

Asp Gln Pro Leu Asn Ala Arg Leu Leu Glu Asp Lys Gln Val Gly Ile
385 390 395 400

Glu Ile Pro Arg Asn Glu Glu Asp Gly Cys Leu Thr Lys Glu Ser Val
405 410 415

Ala Arg Ser Leu Arg Ser Val Val Val Glu Lys Glu Gly Glu Ile Tyr
420 425 430

Lys Ala Asn Ala Arg Glu Leu Ser Lys Ile Tyr Asn Asp Thr Lys Val
435 440 445

Glu Lys Glu Tyr Val Ser Gln Phe Val Asp Tyr Leu Glu Lys Asn Ala
450 455 460

Arg Ala Val Ala Ile Asp His Glu Ser

465

13-1230-wo_SequenceListing_ST25.txt
470