

## SEQUENCE LISTING

<110> Wacker Chemie AG

5 <120> Verfahren zur Herstellung von Hydroxytyrosol

<130> HTS

<160> 6

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<170> PatentIn version 3.5

<210> 1

<211> 1632

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<212> DNA

<213> Ralstonia solanacearum

<220>

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<221> misc\_feature

<222> (1)..(1632)

<223> rscK60 cds

<400> 1

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ggactcatcc aggagaaatc aatggctgtg cgtagaacgg tgcgaaggc aatgcgcgga 180

30

accagtgtcg ccacggtatt cgcgggcaag ctgaccggtc tctcgcctat tgcctgcgat 240

gcggccccct tgcctggtacg gcgcaacctg caaggcatga agctggaaga cccggacctg 300

35

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<210> 2

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<212> PRT

<213> RscK60-Oxidase

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<220>

<221> PEPTIDE

<222> (1) .. (543)

15 <223> RscK60-Oxidase

<400> 2

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20 1 5 10 15

Cys Pro Leu His Ile Ala Ser Pro Gly Phe Arg Val Ala Gly Phe Pro

25 20 25 30

Ala Pro Pro His Thr Asn Thr Asn Gly Leu Ile Gln Glu Lys Ser Met

35 40 45

30

Val Val Arg Arg Thr Val Leu Lys Ala Ile Ala Gly Thr Ser Val Ala

50 55 60

35 Thr Val Phe Ala Gly Lys Leu Thr Gly Leu Ser Ala Ile Ala Ala Asp

65 70 75 80

Ala Ala Pro Leu Leu Val Arg Arg Asn Leu His Gly Met Lys Leu Asp

85

90

95

5 Asp Pro Asp Leu Ser Ala Tyr Arg Glu Phe Val Ser Ile Met Lys Ser

100

105

110

Lys Asn Gln Thr Gln Pro Leu Ser Trp Leu Gly Tyr Ala Asn Gln His

10

115

120

125

Gly Ser Leu Asn Gly Gly Phe Lys Tyr Cys Pro His Gly Asp Trp Tyr

130

135

140

15

Phe Leu Pro Trp His Arg Gly Phe Met Leu Met Tyr Glu Arg Ala Val

145

150

155

160

20

Ala Ala Leu Thr Gly Tyr Lys Ser Phe Ala Met Pro Tyr Trp Asn Trp

165

170

175

25 Thr Glu Asp Arg Leu Leu Pro Glu Ala Phe Thr Ala Lys Thr Tyr Asn

180

185

190

Gly Lys Pro Asn Pro Leu Tyr Val Pro Asn Arg Asn Asp Leu Thr Gly

30

195

200

205

Pro Tyr Ala Leu Thr Asp Ala Ile Val Gly Gln Lys Glu Val Met Asp

210

215

220

35

Lys Ile Tyr Ala Glu Thr Asn Phe Glu Val Phe Gly Thr Ser Arg Ser

225

230

235

240

Val Asp Arg Ser Val Gln Pro Pro Leu Val Gln Asn Ser Leu Asp Pro  
245 250 255

5

Lys Trp Val Pro Met Gly Gly Gly Thr Gln Gly Ile Leu Glu Arg Thr  
260 265 270

10

Pro His Asn Thr Val His Asn Asn Ile Gly Ala Phe Met Pro Thr Ala  
275 280 285

15

Ala Ser Pro Arg Asp Pro Val Phe Met Met His His Gly Asn Ile Asp  
290 295 300

Arg Val Trp Ala Thr Trp Asn Ala Leu Gly Arg Lys Asn Ser Thr Asp  
20 305 310 315 320

Pro Leu Trp Leu Gly Met Lys Phe Pro Asn Asn Tyr Ile Asp Pro Gln  
325 330 335

25

Gly Arg Tyr Tyr Thr Gln Gly Val Ser Asp Leu Leu Ser Thr Glu Ala  
340 345 350

30

Leu Gly Tyr Arg Tyr Asp Val Met Pro Arg Ala Asp Asn Lys Val Val  
355 360 365

35

Asn Asn Ala Arg Ala Glu His Leu Leu Ala Leu Phe Lys Thr Gly Asp  
370 375 380

Ser Val Lys Leu Ala Asp His Met Lys Leu Arg Ser Val Leu Lys Gly  
 385 390 395 400

5 Glu His Pro Ala Ala Thr Ala Val Leu Pro Leu Asn Ser Ala Val Gln  
 405 410 415

10 Phe Glu Ala Gly Thr Val Thr Gly Ala Leu Ser Ala Asp Ala Asp Thr  
 420 425 430

15 Gly Lys Thr Thr Glu Val Val Ala Leu Ile Lys Asn Ile Arg Met Ser  
 435 440 445

Glu Asn Val Ile Ser Ile Arg Val Phe Val Asn Leu Pro Asp Ala Ser  
 450 455 460

20 Leu Asp Val Pro Glu Thr Asn Pro His Phe Val Thr Thr Leu Ser Phe  
 465 470 475 480

25 Leu Thr His Ala Val Gly His Asp His His Ala Leu Pro Ser Thr Met  
 485 490 495

30 Val Asn Leu Thr Asp Thr Leu Lys Ala Leu Asn Ile Arg Asp Asp Asn  
 500 505 510

35 Phe Ser Ile Asn Leu Val Ala Val Pro Lys Pro Gly Val Ala Val Glu  
 515 520 525

Ser Ser Gly Ser Val Thr Pro Glu Ser Ile Glu Val Ala Val Ile  
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<211> 496

5 <212> PRT

<213> Artificial Sequence

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<223> RscK60-del Oxidase

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<221> PEPTIDE

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15 <223> RscK60-del Oxidase

<400> 3

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20

1

5

10

15

Ala Thr Val Phe Ala Gly Lys Leu Thr Gly Leu Ser Ala Val Ala Ala

25

20

25

30

Asp Ala Ala Pro Leu Arg Val Arg Arg Asn Leu His Gly Met Lys Met

30

35

40

45

Asp Asp Pro Asp Leu Ser Ala Tyr Arg Glu Phe Val Gly Ile Met Lys

50

55

60

35 Gly Lys Asp Gln Thr Gln Ala Leu Ser Trp Leu Gly Phe Ala Asn Gln

65

70

75

80

His Gly Thr Leu Asn Gly Gly Tyr Lys Tyr Cys Pro His Gly Asp Trp  
 85 90 95

5 Tyr Phe Leu Pro Trp His Arg Gly Phe Val Leu Met Tyr Glu Arg Ala  
 100 105 110

10 Val Ala Ala Leu Thr Gly Tyr Lys Thr Phe Ala Met Pro Tyr Trp Asn  
 115 120 125

15 Trp Thr Glu Asp Arg Leu Leu Pro Glu Ala Phe Thr Ala Lys Thr Tyr  
 130 135 140

Asn Gly Lys Thr Asn Pro Leu Tyr Val Pro Asn Arg Asn Glu Leu Thr  
 145 150 155 160

20 Gly Pro Tyr Ala Leu Thr Asp Ala Ile Val Gly Gln Lys Glu Val Met  
 165 170 175

25 Asp Lys Ile Tyr Ala Glu Thr Asn Phe Glu Val Phe Gly Thr Ser Arg  
 180 185 190

30 Ser Val Asp Arg Ser Val Arg Pro Pro Leu Val Gln Asn Ser Leu Asp  
 195 200 205

35 Pro Lys Trp Val Pro Met Gly Gly Gly Asn Gln Gly Ile Leu Glu Arg  
 210 215 220

Thr Pro His Asn Thr Val His Asn Asn Ile Gly Ala Phe Met Pro Thr  
 225 230 235 240



Ala Ala Ser Pro Arg Asp Pro Val Phe Met Met His His Gly Asn Ile  
245 250 255

5

Asp Arg Val Trp Ala Thr Trp Asn Ala Leu Gly Arg Lys Asn Ser Thr  
260 265 270

10

Asp Pro Leu Trp Leu Gly Met Lys Phe Pro Asn Asn Tyr Ile Asp Pro  
275 280 285

15

Gln Gly Arg Tyr Tyr Thr Gln Gly Val Ser Asp Leu Leu Ser Thr Glu  
290 295 300

Ala Leu Gly Tyr Arg Tyr Asp Val Met Pro Arg Ala Asp Asn Lys Val  
20 305 310 315 320

Val Asn Asn Ala Arg Ala Glu His Leu Leu Ala Leu Phe Lys Thr Gly  
325 330 335

25

Asp Ser Val Lys Leu Ala Asp His Ile Arg Leu Arg Ser Val Leu Lys  
340 345 350

30

Gly Glu His Pro Val Ala Thr Ala Val Glu Pro Leu Asn Ser Ala Val  
355 360 365

35

Gln Phe Glu Ala Gly Thr Val Thr Gly Ala Leu Gly Ala Asp Val Gly  
370 375 380

Thr Gly Ser Thr Thr Glu Val Val Ala Leu Ile Lys Asn Ile Arg Ile  
385 390 395 400

5 Pro Tyr Asn Val Ile Ser Ile Arg Val Phe Val Asn Leu Pro Asn Ala  
405 410 415

Asn Leu Asp Val Pro Glu Thr Asp Pro His Phe Val Thr Ser Leu Ser  
10 420 425 430

Phe Leu Thr His Ala Ala Gly His Asp His His Ala Leu Pro Ser Thr  
435 440 445

15

Met Val Asn Leu Thr Asp Thr Leu Lys Ala Leu Asn Ile Arg Asp Asp  
450 455 460

20

Asn Phe Ser Ile Asn Leu Val Ala Val Pro Gln Pro Gly Val Ala Val  
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25 Glu Ser Ser Gly Gly Val Thr Pro Glu Ser Ile Glu Val Ala Val Ile  
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30 <211> 33

<212> DNA

<213> Artificial Sequence

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35 <223> Primer forward

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<222> (1)..(33)

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<210> 5

10 <211> 34

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<213> Artificial Sequence

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15 <223> Primer reverse

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20 <222> (1)..(34)

<223> rsck60-2r

<400> 5

atataagctt tcaaattgacg ggcacctcga tcga

34

25

<210> 6

<211> 34

<212> DNA

30 <213> Artificial Sequence

<220>

<223> Primer forward

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<220>

<221> primer\_bind

<222> (1)..(34)

<223> rsck60-3f

<400> 6

ttaagaattc atggtcgtgc gtagaacggt gctg

34