SEQUENCE LISTING

<110> Nanyang Technological University
CHANG, Mathew W
LO, Tat-Ming S
POH, Chueh-Loo

<120> An expression construct for sensing cell density and substrate availability and its use in conversion of hydroxycinnamic acids

<130> P107172

<150> US61/661593
<151> 2012-06-19

<160> 8

<170> PatentIn version 3.5

<210> 1
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<212> DNA
<213> Artificial Sequence

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35 40 45

Gly Ala Thr Gln Arg Val Leu Asp Ala Thr Gln Leu Tyr Leu Gly Glu

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

Arg Arg Ala Leu Arg Gly Asp Val Ala Ser Arg Arg Arg Met Ile Glu
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Ser Asn Leu Arg Leu Val Val Lys Ile Ala Arg Arg Tyr Gly Asn Arg
100 105 110

Gly Leu Ala Leu Leu Asp Leu Ile Glu Glu Gly Asn Leu Gly Leu Ile
115 120 125

Arg Ala Val Glu Lys Phe Asp Pro Glu Arg Gly Phe Arg Phe Ser Thr
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Tyr Ala Thr Trp Trp Ile Arg Gln Thr Ile Glu Arg Ala Ile Met Asn
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Gln Thr Arg Thr Ile Arg Leu Pro Ile His Ile Val Lys Glu Leu Asn
165 170 175

Val Tyr Leu Arg Thr Ala Arg Glu Leu Ser His Lys Leu Asp His Glu
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Pro Ser Ala Glu Glu Ile Ala Glu Gln Leu Asp Lys Pro Val Asp Asp
195 200 205

Val Ser Arg Met Leu Arg Leu Asn Glu Arg Ile Thr Ser Val Asp Thr
210 215 220

Pro Leu Gly Gly Asp Ser Glu Lys Ala Leu Leu Asp Ile Leu Ala Asp
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Glu Lys Glu Asn Gly Pro Glu Asp Thr Thr Gln Asp Asp Asp Met Lys
245 250 255

Gln Ser Ile Val Lys Trp Leu Phe Glu Leu Asn Ala Lys Gln Arg Glu
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Val Leu Ala Arg Arg Phe Gly Leu Leu Gly Tyr Glu Ala Ala Thr Leu
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Glu Asp Val Gly Arg Glu Ile Gly Leu Thr Arg Glu Arg Val Arg Gln
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Gly Leu Asn Ile Glu Ala Leu Phe Arg Glu

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<213> Pseudomonas putida

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accgttggcc atcgtcagtc gctgtactac atcatgaccg gcaagacctt cgatggtcgc 540

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aatggcttca agcgttgccg cgagctgacc tgggaacaga acgaggacta cctctacgcc 720

aagctcgacc agtcgcgcct gctggacact accggcggcc gcgagcaggg catgaagcag 780

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<210> 6
<211> 183
<212> DNA
<213> Pseudomonas putida

<400> 6
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<212> PRT
<213> Pseudomonas putida

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Val Gly Glu Gly Val Leu Glu Asp Leu Ile Gly Tyr Ala Leu Arg Arg
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Ala Gln Leu Lys Leu Phe Gln Asn Leu Ile Ala Arg Leu Ser Ala His
35 40 45

Asp Leu Arg Pro Ala Gln Phe Ser Ala Leu Ala Ile Ile Asp Gln Asn
50 55 60

Pro Gly Leu Met Gln Ala Asp Leu Ala Arg Ala Leu Ala Ile Asp Pro
65 70 75 80

Pro Gln Val Val Pro Met Leu Asn Lys Leu Glu Glu Arg Ala Leu Ala
85 90 95

Val Arg Val Arg Cys Lys Pro Asp Lys Arg Ser Tyr Gly Ile Phe Leu
100 105 110

Ser Lys Ser Gly Glu Ala Leu Leu Lys Glu Leu Lys His Ile Ala Ala
115 120 125

Asp Ser Asp His Gln Ala Thr Ser Asn Leu Ser Asp Asp Glu Arg Thr
130 135 140

Glu Leu Leu Arg Leu Leu Lys Lys Ile Tyr Arg Asp
145 150 155