<110> CJ CheilJedang Corporation

<120> IMP-producing microorganism and method of producing IMP using the same

<130> OPA18596

<150> KR10-2017-0173504
<151> 2017-12-15

<160> 31

<170> KoPatentIn 3.0

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35 40 45

Lys Val Thr Ile Glu Glu Ile Cys Glu Ala Ala Gly Ile Ser Arg Arg
50 55 60

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

Ser Ser Glu Pro Leu Thr Glu Lys Gln Arg Asn Asp Phe Leu Asn Ala
85 90 95

Asp Ala Ser Asn Leu Leu Gln Leu Met Val Glu Gln Ile Lys Gln His
100 105 110

Leu Glu Ser Ser His Gln Ser Gln Ala Ile His Asp Arg Arg Gln Arg
115 120 125

Ile Phe Ala Asp Pro Asp Val Ala Val Arg Ala Met Ala Phe Arg Lys
130 135 140

Glu Arg Ser Arg Glu Thr Met Glu Leu Ile Ala Gln Arg Leu Arg Glu
145 150 155 160

His Pro Glu Glu Gln Arg Ala Pro Glu Leu Asp Pro Glu Thr Glu Ala
165 170 175

Met Leu Leu Ser Gly Phe Ile Arg Glu Ala Thr Trp Met Ala Ile Ser
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Arg Pro Asp Arg Asp Cys Ala Leu Pro Val Gly Asp Arg Ile Tyr Arg

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35 40 45

Ile Ile Phe Ala Ala Leu Met Leu Thr Met Leu Met Ser Ser Leu Gly
50 55 60

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

Gly Val Asp Gln Met Ser Trp Val Ile Ser Ala Phe Met Val Thr Met
85 90 95

Thr Ile Ala Met Pro Leu Ala Gly Gln Leu Gly Asp Arg Met Gly Arg
100 105 110

Lys Trp Val Tyr Ile Ser Gly Ile Ser Ile Phe Val Ile Gly Ser Thr
115 120 125

Leu Gly Gly Phe Ala Asn Gly Met Gly Met Leu Ile Thr Gly Arg Ala
130 135 140

Ile Gln Gly Phe Gly Ala Gly Ile Met Met Ile Ser Ser Gln Ser Ile
145 150 155 160

Val Ala Glu Val Val Ser Ala Arg Glu Arg Gly Lys Phe Met Gly Ile
165 170 175

Met Gly Gly Val Phe Gly Val Ser Ser Val Leu Gly Pro Val Leu Gly
180 185 190

Gly Trp Phe Thr Asp Gly Pro Gly Trp Arg Trp Gly Leu Trp Ile Asn
195 200 205

Ile Pro Leu Gly Leu Leu Ala Ile Ile Val Cys Ala Phe Val Leu Lys
210 215 220

Leu Arg Val Gly Glu Gln Gly Phe Lys Gly Phe Asp Trp Met Gly Phe

225 230 235 240

Ala Ala Ile Ala Ile Thr Thr Ser Thr Leu Ile Leu Leu Thr Thr Trp
245 250 255

Gly Gly Ser Glu Tyr Glu Trp Thr Ser Pro Thr Ile Leu Ser Met Ala
260 265 270

Ala Val Val Ile Val Gly Ala Leu Leu Thr Val Phe Ile Glu Ser Arg
275 280 285

Ala Ser Gln Pro Leu Ile Pro Val Gln Leu Phe Lys Asn Arg Asn Met
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Val Leu Thr Thr Leu Ala Gly Thr Val Leu Gly Leu Ala Met Met Gly
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325 330 335

Pro Thr Glu Ala Gly Leu Met Met Ile Pro Met Met Val Gly Met Ile
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Gly Val Ser Thr Gly Val Gly Phe Ile Ile Ala Lys Thr Gly Asn Tyr
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Trp Met Ser Gln Met Thr Val Glu Thr Ser Leu Thr Gly Ile Gly Val
385 390 395 400

Arg Phe Leu Val Phe Gly Val Gly Leu Gly Phe Val Met Gln Val Leu
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Val Leu Ile Val Gln Asn Ser Phe Pro Val Ser Gln Val Gly Thr Ala
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Thr Ala Ala Asn Asn Phe Phe Arg Gln Ile Gly Ser Ala Leu Gly Ala
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Ser Ile Val Gly Ser Met Phe Ile His Asn Met Gln Asn Glu Met Ala
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Thr Arg Leu Pro Asp Ala Leu Ala Ser Leu Gly Lys Glu Gly Ala Ala
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Ile Ser Gln Gln Phe Gln Gly Ala Asp Ala Ala Asn Ser Leu Thr Pro
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His Ala Val Ala Glu Leu Pro Asp Val Leu Arg Asp Ala Ile Leu Asn
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Ser Tyr Asn Asp Gly Leu Thr Pro Val Ile Gly Met Met Val Pro Leu
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ccagtgggtg accgcatcta tcgcgcgatg gaattggtaa agaattacac gaaaggactg 660

gaatggtagc taaaaactcc accccaagca cggccggcca cgccagtgct cacactgcgg 720

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