

SEQUENCE LISTING

<110> Mitsui Chemicals

<120> METHOD OF PRODUCING L-GLUTAMIC ACID USING MICROORGANISM HAVING
CARBON DIOXIDE FIXATION PATHWAY

<130> Demo

<160> 31

<170> PatentIn version 3.5

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<223> Primer

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<223> Primer

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<211> 1352

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<213> *Corynebacterium casei*

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 <213> *Methylococcus capsulatus*

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<213> *Methylococcus capsulatus*

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 <223> Primer

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 <220>
 <223> Primer

 <400> 12
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 <211> 53
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 <220>
 <223> Primer

 <400> 13
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 <210> 14
 <211> 28
 <212> DNA
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 <220>
 <223> Primer

 <400> 14
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 <210> 15
 <211> 2727
 <212> DNA
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<400> 21
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<210> 22
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<400> 22
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<210> 23
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<213> *Corynebacterium glutamicum* 2256 (ATCC 13869)

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Phe Leu Ile Pro Arg Ile Gly Arg Leu Ala Met Arg Ile Ile Lys Gln
 35 40 45

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

Cys Ile Asn Asn Ser Asn Asn Trp Ser Arg Ala Val Val Val Ile Pro
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Ile Pro Met Leu Gly Ser Glu Asn Ile Thr Asp Val Ile Ala Arg Ser
 195 200 205

Glu Ala Ala Thr Arg Arg Ala Leu Gly Gln Glu Lys Ile Ala Pro Glu
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Ile Leu Gly Glu Leu Asp Val His Pro Ala Thr Glu Val Thr Pro Pro
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Thr Val Val Gly Met Pro Trp Met Val Thr Met Arg Phe Leu Val Gln
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Val Thr Ala Gly Asn Gln Trp Leu Val Glu Arg Ala Ile Arg Thr Glu
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Ile Ile Asn Glu Phe Trp Glu Glu Tyr Gly Ser Ala Thr Thr Thr Ser
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Gly Thr Leu Ile Asp Ser Leu His Val Glu His Glu Glu Pro Lys Thr
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Ser Leu Ile Asp Ala Ser Pro Gln Ala Leu Lys Glu Pro Lys Pro Glu
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Asp Asn Ala Asp Ala Ser Ala Ile Asn Ala Gly Asn Pro Glu Lys Glu
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Glu Thr Ala Lys Pro Asp His Ser Leu Arg Gly Phe Phe Arg Thr Asp
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Tyr Tyr Pro Asn Arg Trp Gln Lys Ile Leu Ser Phe Gly Gly Arg Val
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Arg Met Ser Thr Ser Leu Leu Leu Gly Ala Leu Leu Leu Leu Ser Leu
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Phe Lys Gly Leu Phe Leu Phe
420