

1.2784_Sequenzprotokoll
SEQUENCE LISTING

<110> Forschungszentrum Jülich GmbH

<120> Pyruvatcarboxylase und für die Pyruvatcarboxylase kodierende DNA, Plasmid enthaltend die DNA, sowie Mikroorganismus zur Produktion und Verfahren zur Herstellung von Produkten, deren Biosynthese Oxalacetat als Vorstufe beinhaltet und Chromosom

<130> PT1.2784 PCT

<160> 5

<170> PatentIn version 3.5

<210> 1

<211> 3423

<212> DNA

<213> Corynebacterium glutamicum

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1.2784_Sequenzprotokoll

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 <213> Corynebacterium glutamicum

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Ser Phe His Arg Ser Phe Ala Ser Glu Ala Val Arg Ile Gly Thr Glu
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Gly Ser Pro Val Lys Ala Tyr Leu Asp Ile Asp Glu Ile Ile Gly Ala
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Ala Lys Lys Val Lys Ala Asp Ala Ile Tyr Pro Gly Tyr Gly Phe Leu
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Ser Glu Asn Ala Gln Leu Ala Arg Glu Cys Ala Glu Asn Gly Ile Thr
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Phe Ile Gly Pro Thr Pro Glu Val Leu Asp Leu Thr Gly Asp Lys Ser
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Arg Ala Val Thr Ala Ala Lys Lys Ala Gly Leu Pro Val Leu Ala Glu
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Ser Thr Pro Ser Lys Asn Ile Asp Glu Ile Val Lys Ser Ala Glu Gly
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Gln Thr Tyr Pro Ile Phe Val Lys Ala Val Ala Gly Gly Gly Gly Arg
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Gly Met Arg Phe Val Ala Ser Pro Asp Glu Leu Arg Lys Leu Ala Thr
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Glu Ala Ser Arg Glu Ala Glu Ala Ala Phe Gly Asp Gly Ala Val Tyr
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Val Glu Arg Ala Val Ile Asn Pro Gln His Ile Glu Val Gln Ile Leu
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Gly Asp His Thr Gly Glu Val Val His Leu Tyr Glu Arg Asp Cys Ser
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 Ala Ala Glu Ala Val Ala Lys Leu Thr Pro Glu Leu Leu Ser Val Glu
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 Asp Pro Trp Asp Arg Leu Asp Glu Leu Arg Glu Ala Met Pro Asn Val
 595 600 605
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 610 615 620
 Tyr Pro Asp Ser Val Cys Arg Ala Phe Val Lys Glu Ala Ala Ser Ser
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 Thr Tyr Phe Ala Ala Ala Gln Ala Gly Ala Asp Ala Val Asp Gly Ala
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 Ser Ala Pro Leu Ser Gly Thr Thr Ser Gln Pro Ser Leu Ser Ala Ile
 770 775 780

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805 810 815

Leu Pro Phe Glu Ser Gly Thr Pro Gly Pro Thr Gly Arg Val Tyr Arg
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Ala Leu Gly Leu Ala Asp Arg Phe Glu Leu Ile Glu Asp Asn Tyr Ala
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Ala Val Asn Glu Met Leu Gly Arg Pro Thr Lys Val Thr Pro Ser Ser
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Lys Val Val Gly Asp Leu Ala Leu His Leu Val Gly Ala Gly Val Asp
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Pro Ala Asp Phe Ala Ala Asp Pro Gln Lys Tyr Asp Ile Pro Asp Ser
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taa	3423

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Ser Phe His Arg Ser Phe Ala Ser Glu Ala Val Arg Ile Gly Thr Glu
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Ala Lys Lys Val Lys Ala Asp Ala Ile Tyr Pro Gly Tyr Gly Phe Leu
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Gln Thr Tyr Pro Ile Phe Val Lys Ala Val Ala Gly Gly Gly Gly Arg
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Glu Ala Ser Arg Glu Ala Glu Ala Ala Phe Gly Asp Gly Ala Val Tyr
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195

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Asp Glu Lys Gly Asn His val Phe Ile Glu Met Asn Pro Arg Ile Gln
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Thr Gln Asp Lys Ile Lys Thr His Gly Ala Ala Leu Gln Cys Arg Ile
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Thr Thr Glu Asp Pro Asn Asn Gly Phe Arg Pro Asp Thr Gly Thr Ile
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Ala Gln Leu Gly Gly Glu Ile Thr Ala His Phe Asp Ser Met Leu val
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Lys Met Thr Cys Arg Gly Ser Asp Phe Glu Thr Ala val Ala Arg Ala
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Gln Arg Ala Leu Ala Glu Phe Thr val Ser Gly val Ala Thr Asn Ile
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Seite 10

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 His Gln Ser Leu Leu Ala Thr Arg Val Arg Ser Phe Ala Leu Lys Pro
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 Ser Gly Ala His Ile Leu Ala Ile Lys Asp Met Ala Gly Leu Leu Arg
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 Pro Ala Ala Val Thr Lys Leu Val Thr Ala Leu Arg Arg Glu Phe Asp
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 Leu Pro Val His Val His Thr His Asp Thr Ala Gly Gly Gln Leu Ala
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745

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