

SEQUENCE LISTING

<110> Mitsubishi Chemical Corporation

<120> SYNTHETIC PATHWAY GENERATING APPARATUS, SYNTHESIS PATHWAY GENERATING METHOD, SYNTHESIS PATHWAY GENERATING PROGRAM, AND METHOD OF PRODUCING 3-HYDROXYPROPIONIC ACID, CROTONYL ALCOHOL AND BUTADIENE

<130> B11111-11359

<150> JP2010-281794

<151> 2010-12-17

<150> JP2011-179573

<151> 2011-08-19

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<170> PatentIn version 3.3

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Gln	Leu	Glu	Ala 290	Ile	Leu	Lys 295	Gln	Ala	Ala	Asp	Arg 300	Phe	Pro	Lys	Lys	
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 Cys Gly Ser Gly Glu Phe Gln Ser Leu Ser Gln Lys Glu Tyr Glu Gln
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 Met Val Glu Val Ala Val Ser Ala Ala Gly Gly Lys Val Pro Val Tyr
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 Thr Gly Val Gly Gly Asn Leu Ser Thr Ala Leu Asp Trp Ala Gln Leu
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 Val His Gly Glu Gln Glu Gly Leu Tyr Gln Tyr Ala Lys Thr Ile Ile
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 Glu Ser Thr Asp Leu Asn Ala Ile Leu Tyr Gln Arg Asp Asn Ala Val
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 Leu Ser Val Glu Gln Ile Lys Arg Leu Thr Glu Cys Glu Gln Leu Val
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 Gly Val Lys Asp Gly Val Gly Asn Met Asp Leu Asn Ile Asn Leu Val
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 Tyr Thr Ile Gly Asp Arg Leu Gly Trp Leu Asn Gly Met Pro Met Ala
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 Glu Val Thr Met Pro Ala Tyr Leu Pro Ile Gly Phe His Ser Tyr Ser
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 Ser Ala Ile Ser Asn Tyr Ile Pro His Ile Ser Arg Met Phe Tyr Asp
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 Ala Leu Lys Asn Gly Asn Asp Glu Leu Val Lys Glu Leu Tyr Arg His
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 Val Ile Leu Pro Ile Asn Asp Ile Arg Lys Gln Arg Lys Gly Tyr Ala
 245 250 255
 Val Ser Leu Ile Lys Ala Gly Met Glu Ile Met Gly Leu Asn Val Arg
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 Asn Thr Ala Arg Pro Pro Val Gly Pro Val Glu Lys Asp His Tyr Gln
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