

SEQUENCE LISTING

<110> Kaneka Corporation

<120> NOVEL ALCOHOL DEHYDROGENASE, GENE FOR THE ALCOHOL DEHYDROGENASE, VECTOR, TRANS
FORMANT, AND METHOD FOR PRODUCTION OF OPTICALLY ACTIVE ALCOHOL BY USING THEM

<130> B060689W001-

<140> PCT/JP2007/072813

<141> 2007-11-27

<150> JP2006-321139

<151> 2006-11-29

<160> 13

<170> PatentIn version 3.1

<210> 1

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<212> PRT

<213> Candida maltosa

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20

25

30

Gln Leu Leu Met Lys Val Asp Ala Val Gly Leu Cys His Ser Asp Leu

35

40

45

His Val Ile Tyr Glu Gly Leu Asp Cys Gly Asp Asn Tyr Val Met Gly

50

55

60

His Glu Ile Ala Gly Thr Val Ala Ala Leu Gly Ala Glu Val Asp Gly

65

70

75

80

Phe Ala Val Gly Asp Arg Val Ala Cys Val Gly Pro Asn Gly Cys Gly

85

90

95

Ile Cys Lys His Cys Leu Lys Gly Glu Asp Asn Val Cys Lys Lys Ala

100

105

110

Phe Gly Asp Trp Phe Gly Leu Gly Ser Asp Gly Gly Tyr Glu Glu Tyr

115

120

125

Leu Leu Val Arg Arg Pro Arg Asn Leu Val Lys Ile Pro Asp Asn Val

130

135

140

Thr Thr Glu Glu Ala Ala Ala Ile Thr Asp Ala Val Leu Thr Pro Tyr

145

150

155

160

His Ala Ile Lys Val Ala Gly Val Gly Pro Thr Thr Asn Leu Leu Ile

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Val Gly Ala Gly Gly Leu Gly Gly Asn Ala Ile Gln Val Ala Lys Ala			
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Phe Gly Ala Thr Val Thr Val Leu Asp Lys Lys Asp Lys Ala Arg Glu			
195	200	205	
Gln Ala Lys Ser Leu Gly Ala Asp Asn Val Tyr Asp Glu Leu Pro Ser			
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Ser Val Glu Pro Gly Ser Phe Asp Val Cys Ile Asp Phe Val Ser Val			
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Gln Ala Thr Phe Asp Leu Cys Gln Thr Tyr Cys Glu Pro Lys Gly Thr			
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Ile Ile Pro Val Gly Leu Gly Ala Ser Asn Leu Ser Ile Asn Leu Gly			
260	265	270	
Asp Leu Asp Leu Arg Glu Ile Arg Val Leu Gly Ser Phe Trp Gly Thr			
275	280	285	
Ser Leu Asp Leu Arg Glu Ala Phe Glu Leu Ala Ala Gln Gly Lys Val			
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accatgctat taaggttgct ggtgttggtc caactactaa tcttttaatt gttgggtctg    180
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atgaattacc atcaagtgc gaaccagggt cttttgatgt atgtattgat ttigtgtctg    360
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