

Fig. 1

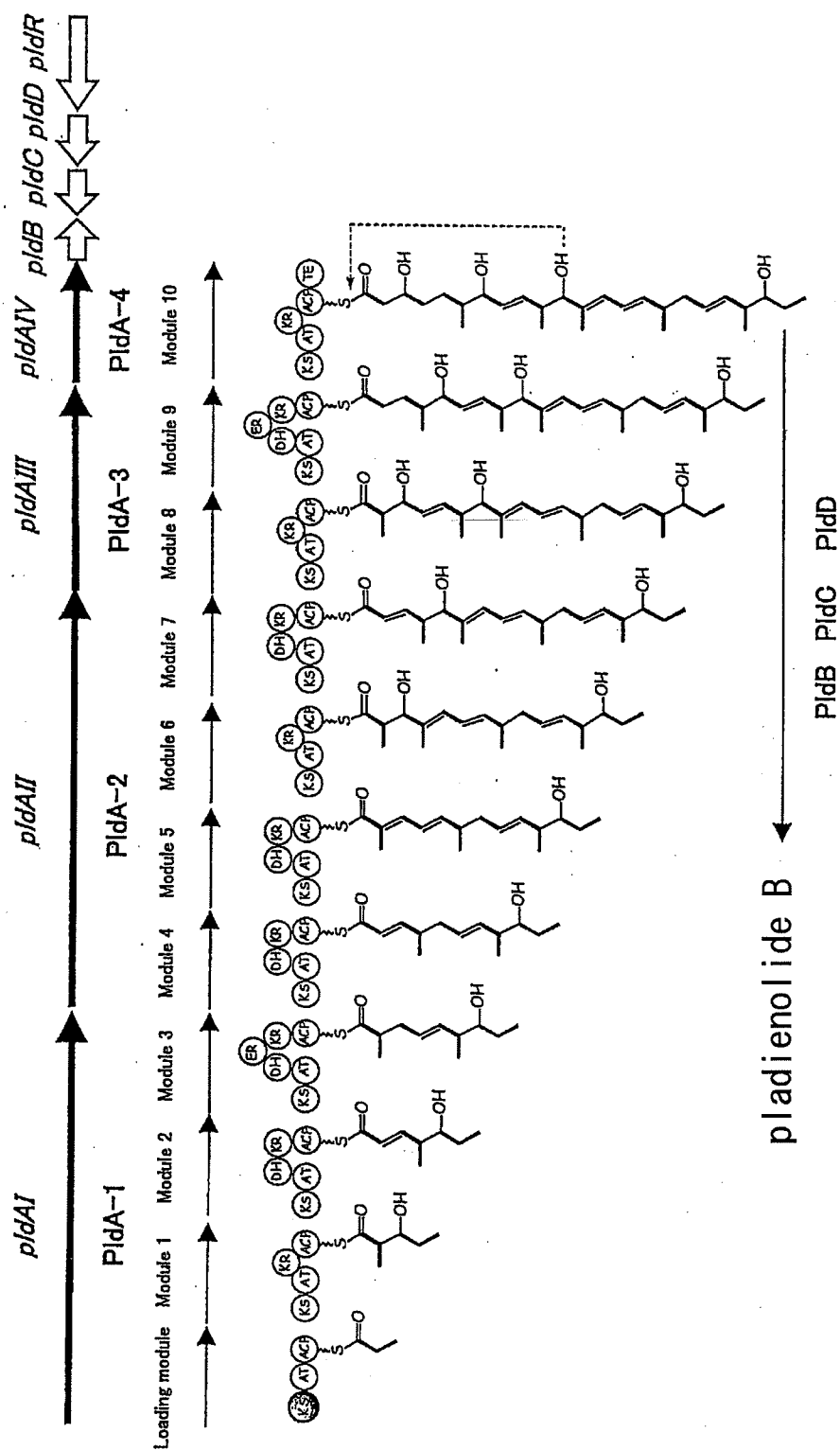


Fig. 2

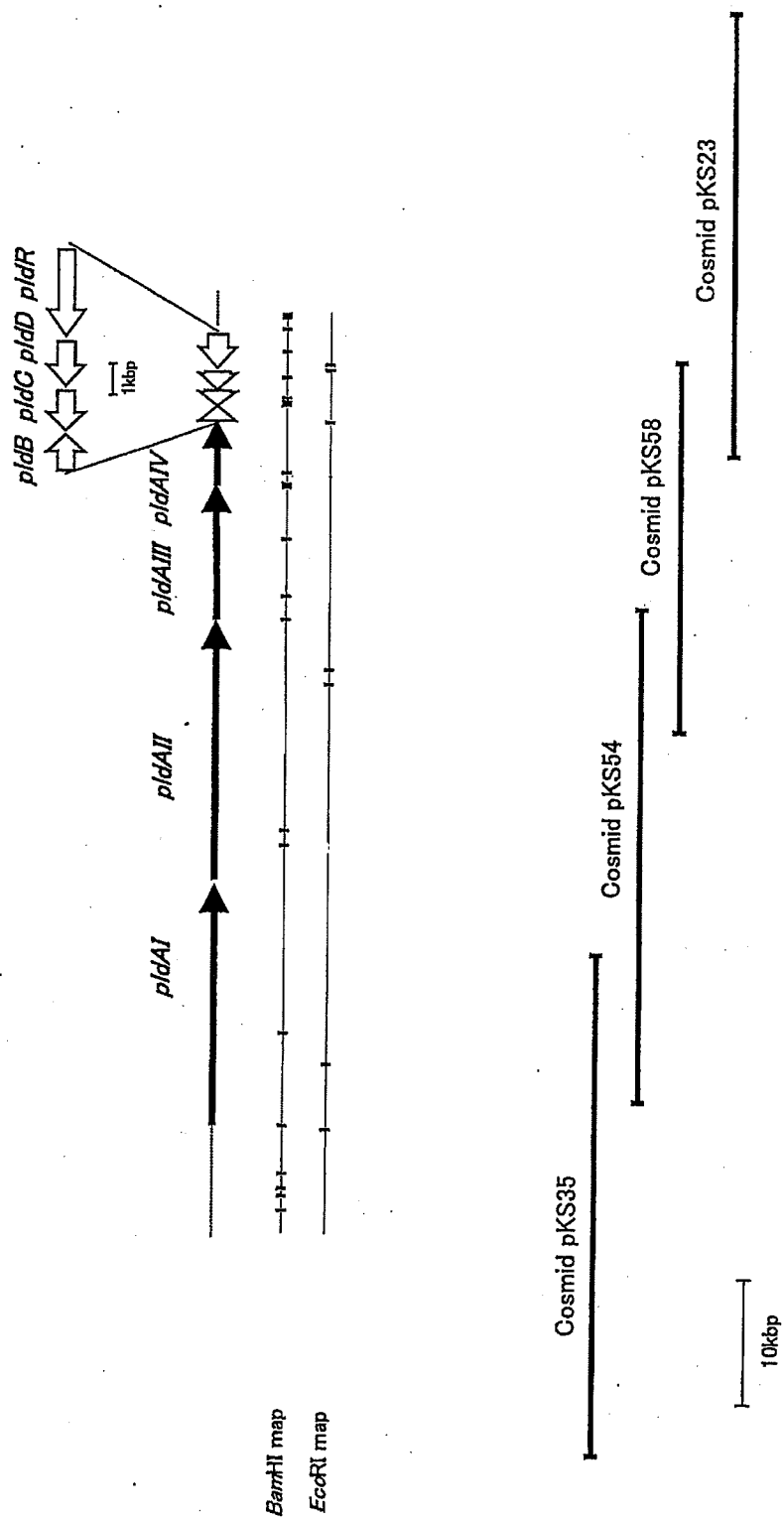


Fig. 3

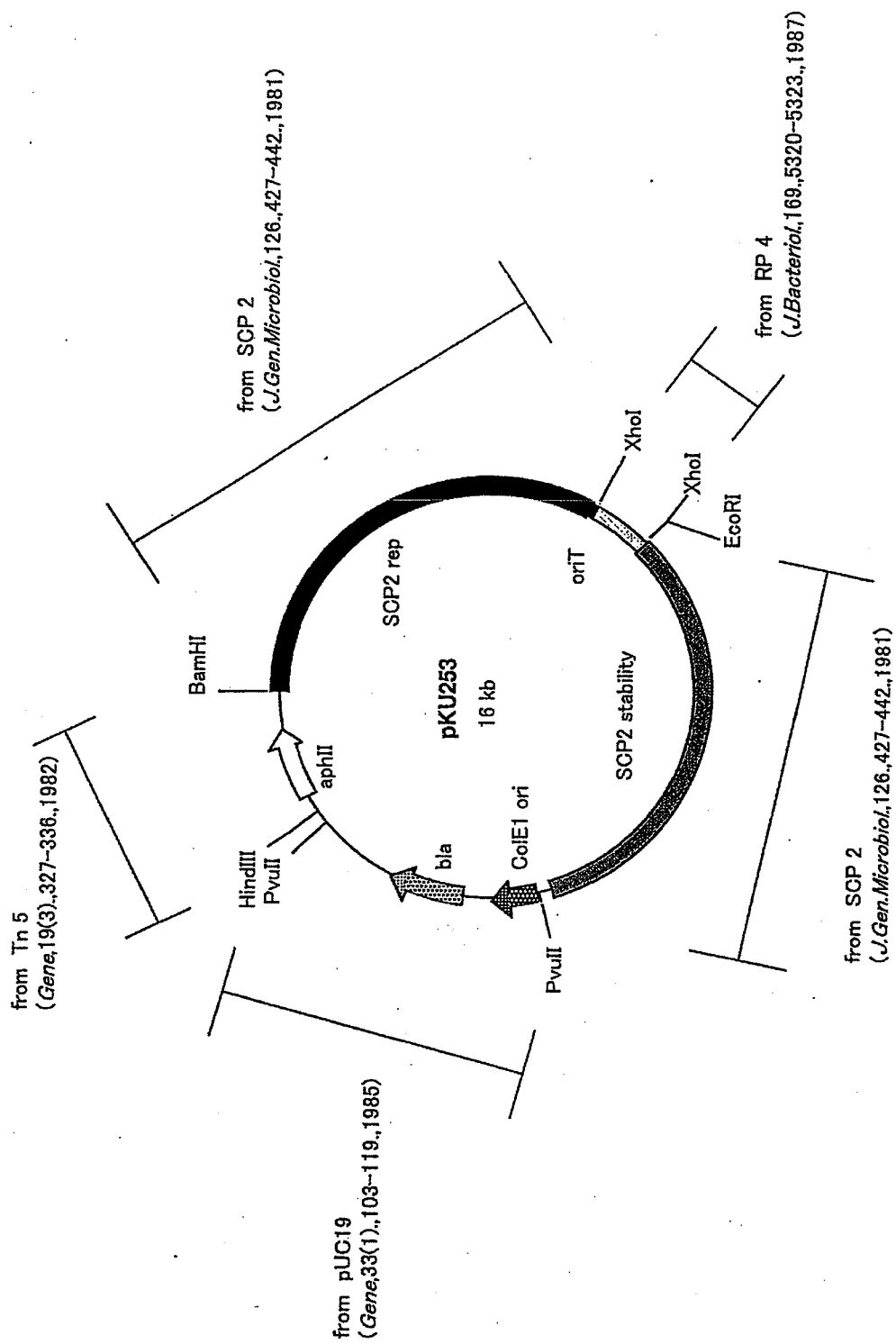
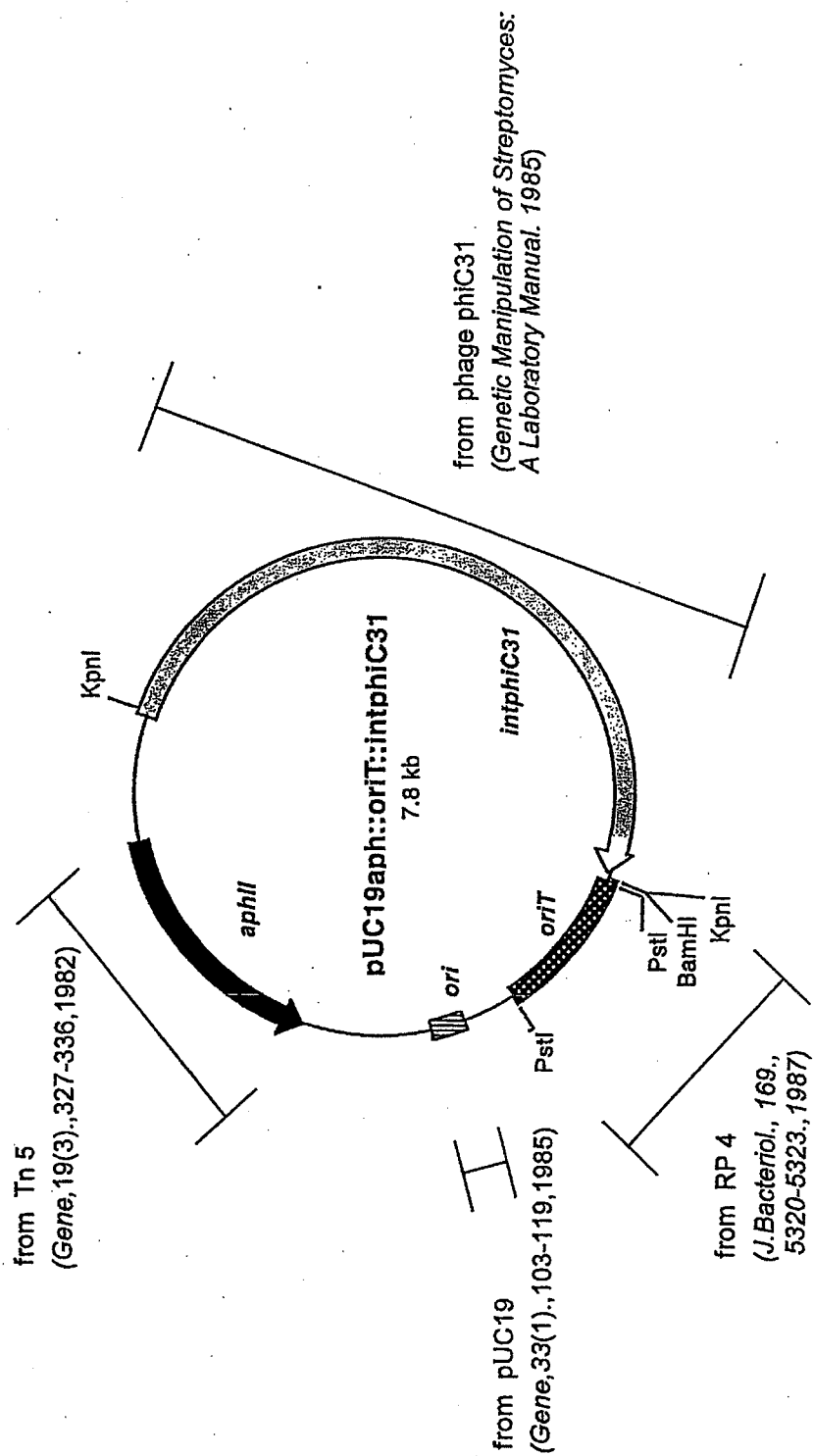


Fig. 4



SEQUENCE LISTING

<110> Eisai R&D MANAGEMENT CO., LTD.

<110> Mercian Corporation

<120> Recombinant microorganisms and methods for producing macrolide compounds using the microorganisms

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<150> 2005-154114

<151> 2005-05-26

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Glu Ala Arg Ala Leu Leu Thr Asp Gln Arg Leu Ser Ala Asp Arg Gln						
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Asn Pro Ala Phe Pro Val Pro Phe Glu Arg Phe Ala Ala Ile Arg Arg						
65 70 75 80						
gtc cgg acg ccg ctg atc ggg gtc gac gac ccg gag cac aac acc cag	707					
Val Arg Thr Pro Leu Ile Gly Val Asp Asp Pro Glu His Asn Thr Gln						
85 90 95						
cgc cgg atg ctg atc ccc agc ttc agc ctc aag cgg acc gcc gca ctg	755					
Arg Arg Met Leu Ile Pro Ser Phe Ser Leu Lys Arg Thr Ala Ala Leu						
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Arg Pro Glu Ile Gln Arg Ile Val Asp Gly Leu Leu Asp Arg Met Leu						
115 120 125						
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Asp Gln Gly Pro Pro Thr Glu Leu Val Ser Ala Phe Ala Leu Pro Val						
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Pro Ser Met Val Ile Cys Ala Leu Leu Gly Val Ser Tyr Ala Asp His						
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Glu Phe Phe Glu Glu Glu Ser Arg Arg Ile Leu Arg Gly Arg Ser Ala						
165 170 175						
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Glu Glu Ala Glu Asp Ala Arg Leu Lys Leu Glu Glu Tyr Phe Thr Gly						
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Leu Ile Ala Ala Lys Glu Lys Asn Pro Gly Asp Gly Leu Leu Asp Glu	
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Leu Ile Glu Asp Arg Leu Arg Thr Gly Ala Leu Thr Arg Asp Glu Leu	
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Val Arg Leu Ala Met Ile Leu Leu Val Ala Gly His Glu Thr Thr Ala	
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Asn Met Ile Ser Leu Gly Thr Phe Thr Leu Leu Asp His Pro Glu Gln	
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Leu Ala Gln Leu Lys Ala Asp Glu Gly Leu Met Pro Ala Ala Ile Glu	
260 265 270	
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Glu Leu Leu Arg Phe Leu Ser Ile Ala Asp Gly Leu Leu Arg Val Ala	
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Thr Glu Asp Ile Glu Ile Gly Gly Gln Val Ile Arg Ala Asp Asp Ala	
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Val Leu Phe Pro Ala Ser Leu Ile Asn Arg Asp Glu Ala Ala Tyr Pro	
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Ala Pro Asp Glu Leu Asp Leu Gly Arg Ser Ala Arg His His Val Ala	
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Glu Met Glu Ile Ala Leu Arg Ser Leu Phe Thr Arg Ile Pro Gln Leu	
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Arg Leu Ala Val Pro Ala Ala Glu Ile Pro Phe Lys Asp Gly Asp Thr	
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Leu Gln Gly Met Ile Glu Leu Pro Leu Ala Trp	
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Gly Ala Gly Gln Cys Ala Leu Thr Ala Pro Gly Gly Phe Thr Gln Asp	
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Asp Asp Gly Phe Ser Ala Leu Leu Pro Gly Arg Glu Asp Gly Ala Gly	
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Asp Pro Leu Val Arg Glu Ala Ala Arg Ala Cys Pro Val Gln Ala Ile	
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455	
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                                         Met Thr
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gac acg aca gac ctg acc gag ctg tca gat ccc gtc tcc ttc ccc cag      225
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gac cgg agc tgc ccc tac cac cgg ccc acc ggg tac gac ccg ctg cgc      273
Asp Arg Ser Cys Pro Tyr His Pro Pro Thr Gly Tyr Asp Pro Leu Arg
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acc gaa cgg ccg ccc gcc cgc atc cgg ctc tac gac ggc cgc ccc gcc      321
Thr Glu Arg Pro Pro Ala Arg Ile Arg Leu Tyr Asp Gly Arg Pro Ala
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Trp Leu Val Thr His Ala Val Ala Arg Asp Leu Leu Val Asp Pro
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cgc ctg tcc acg gac cgc acc cgc tgc ggc ttc ccg gcc aca act ccc      417
Arg Leu Ser Thr Asp Arg Thr Arg Ser Gly Phe Pro Ala Thr Thr Pro
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Arg Phe Ala Ala Val Arg Asp Arg Lys Pro Ala Leu Leu Gly Val Asp
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Asp Pro Lys His Arg Thr Gln Arg Trp Met Met Ile Pro Ser Phe Thr
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Leu Arg Arg Ala Thr Glu Leu Arg Pro Arg Ile Gln Glu Ile Val Asp
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gaa ctg ctg gac gtg atg atc gcc cag gga ccc ccg gcc gac ctg gtg      609
Glu Leu Leu Asp Val Met Ile Ala Gln Gly Pro Pro Ala Asp Leu Val
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Arg Ser Phe Ala Leu Pro Val Pro Ser Met Val Ile Cys Ala Leu Leu
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ggc gtg ccc tac gcc gac cac gag ttc ttc gag gac cag tcc agg cgg      705
Gly Val Pro Tyr Ala Asp His Glu Phe Phe Glu Asp Gln Ser Arg Arg
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Leu Ala Ala Tyr Leu Glu Asp Leu Ile Asp Glu Lys Arg Arg Arg Pro
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Gly Asp Gly Leu Leu Asp Glu Leu Val Gln Gln Arg Leu Asn Glu Gly
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gag ctc gac ccg gag gaa ctg acc gcg ctg gcg atg atc ctg ctg gtc      897
Glu Leu Asp Arg Glu Glu Leu Thr Ala Leu Ala Met Ile Leu Leu Val
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260 265 270	
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Leu Leu Pro Ala Ala Val Glu Glu Leu Met Arg Met Leu Ser Ile Ala	
275 280 285 290	
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Asp Gly Leu Leu Arg Gln Ala Thr Glu Asp Ile Glu Ile Ala Gly Thr	
295 300 305	
acc atc agg gcc ggg gac ggc gtg gtc ttc tcc acc tct gtc atc aac	1137
Thr Ile Arg Ala Gly Asp Gly Val Val Phe Ser Thr Ser Val Ile Asn	
310 315 320	
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Ser Thr Arg His His Val Ala Phe Gly Phe Gly Ile His Gln Cys Leu	
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Gly Gln Asn Leu Ala Arg Thr Glu Leu Glu Ile Ala Leu Arg Thr Leu	
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Leu Glu Arg Leu Pro Thr Leu Arg Leu Ala Ala Pro Pro Glu Glu Ile	
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ccc ttc aaa ccc ggc gac acc atc cag ggg atg ctg gaa ctc ccc gtc	1377
Pro Phe Lys Pro Gly Asp Thr Ile Gln Gly Met Leu Glu Leu Pro Val	
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Ser Trp Met His Ile Glu Ile Asp Lys Asp Arg Cys	
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Ile Gly Ala Gly Gln Cys Ala Leu Thr Ala Pro Gly Val Phe Thr Gln	
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Asp Asp Asp Gly Phe Ser Asp Leu Leu Pro Gly Arg Glu Asp Gly Ala	
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Gly Asp Pro Met Val Arg Glu Ala Ala Arg Ala Cys Pro Val Ser Ala	
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23

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<210> 7
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27

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<400> 8
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<223> Description of Artificial Sequence : pldB-L-Bgl2F Primer

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<400> 15
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<400> 16

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<400> 17

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22

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<210> 28

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<400> 28

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<210> 29

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<212> DNA

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<212> DNA

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35

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<210> 35
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<210> 38
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<210> 39

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<223> R195L-F primer

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<223> L403M-R primer

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