

1

SEQUENCE LISTING

<110> INSTITUT UNIV. DE CIÈNCIA I TECNOLOGIA, S.A.

5 <120> THERMOSTABLE BIOCATALYST COMBINATION FOR NUCLEOSIDE SYNTHESIS

<130> P25190EP00

<140>

10 <141>

<150> EP093822963

<151> 2009-12-22

15 <160> 8

<170> PatentIn version 3.3

<210> 1

20 <211> 28

<212> DNA

<213> artificial

<220>

25 <223> primer related to Sulfolobus solfataricus deoD forward

<400> 1

caccgtgcc ttttagaaa atggttcc 28

30

<210> 2

<211> 27

<212> DNA

<213> artificial

35

<220>

<223> primer related to Sulfolobus solfataricus deoD reverse

<400> 2

40 aatcagtttt aagaatctta aggtaat 27

<210> 3

<211> 25

45 <212> DNA

<213> artificial

<220>

<223> primer related to Aeropyrum pernix udp forward

50

<400> 3

caccgtggcc cgctacgttc tcctc 25

55 <210> 4

<211> 28

<212> DNA

<213> artificial

60 <220>

<223> primer related to Aeropyrum pernix udp reverse

<400> 4

gaattcctat gtgcgtctgc acgccagg 28

2

<210> 5
 <211> 18
 5 <212> DNA
 <213> artificial

 <220>
 <223> primer related to TrxFus forward
 10 <400> 5
 ttcctcgacg ctaacctg 18

 15 <210> 6
 <211> 20
 <212> DNA
 <213> Artificial

 20 <220>
 <223> primer related to T7 reverse
 <400> 6
 tagttattgc tcaggggtgg 20
 25

 <210> 7
 <211> 825
 <212> DNA
 30 <213> Sulfolobus solfataricus

 <400> 7
 gtgccatttt tagaaaatgg ttccatggta tatggtgatt tcattagaaa tcaagaggta 60
 35 agaaaaagaa ttacaaagga agaacttggg atagaagaag acgaaatccc ggaaagggtg 120
 gttgtaacac ctatgccatt taatactcaa tttcctaaaa actttgaaga tactttaact 180
 aacttaggaa tttaaagtaaa taggttaaaa gtggaagacc aaatacttag acaattcgga 240
 40 ggaaatttat tgcttgaaaa agacggtaat agaggattta ttgcgttcac aggcagaggt 300
 ctgatagatt tcaactgagag gataaggatt ttagctacag tttcgcgcat taaagatata 360
 45 ttattttattg gtactgcagg atcggttatct aatgaaatat taataggaga tctaaatata 420
 ccaaaatacg ccatcccatc cgaaaacgta agtgattttt acgctgatcc taccatagca 480
 attccacaag ctgatgaaaa gttgctgaac gaagtttatg agtacgctga ggaaactgga 540
 50 gttaaaaccc actcaacctt acatgcaaca ctacttttcc cttattccga aactactgag 600
 ttctaaact acttattaaa tatcggcgtt tctacgatag atatggaagt cagtgccttt 660
 55 tataagatgt ctagatttta cggtaaaaaga gctgttgacg tattacgaat ttcagatag 720
 cctttaatag aactgcataa gcaagaggaa ttgattaagg caagaaggga aattgcagtt 780
 aatgctgttt tcagaattac ctttaagattc ttaaaactga tttaa 825
 60

 <210> 8
 <211> 765
 <212> DNA
 65 <213> Aeropyrum pernix

3

<400> 8
gtggcccgcct acgtttctcct cccgggagac cccgagagga cagaccttat agcccgccctc 60
tgggatgaag cgaggcttgt agcgaccac cgggagtaca ggacgtggac cggctttctac 120
5 aaggggacat cgataagtgt aacaagcacc gggataggct ctcccagcac ggcgatagcc 180
gttgaggagc tgctgagggt tggagccgag actttcataa gagtaggcac tatgggcgggt 240
10 ataagggagg atctgcggcc cggcaccctg gttatagga gtgcggcgggt taggatggag 300
gggacgagcg gccagtacgc tcccggggg ttcccagcgg ccgccagcta tgacgttgtg 360
gcggcgctgg tggaggctgc tgaggcgctc ggggttaggt atgaggttgg cgttgttgcc 420
15 agcacggaca gctttctacct gggccagggg aggccgggggt acggggggta tatgacgccg 480
gaggcttcgg aagtcatacc cctcctcagg tcagccggcg tcctcggctt cgagatggag 540
20 gcctccgccc tcttcacct atcccagctc tacggcgcca gggcagggtg cgtgtgcgcg 600
gtagtggcaa acaggggttag cggggagttt gtggtaaacg cgggggttga agacgctgct 660
agggttgcct ccgaggcgggt agccatacta gcaggctggg acagggagag ggagaagagg 720
25 ggtaagaaat ggttttacct gagcctggcg tgcagacgca catag 765