Supplementary Data S2

The condon optimized D-psicose-3-epimerase (DPEase) gene for this study

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Optimized   1  CACGGTATTTACTATAGCTACTGGGAGCACGAATGGAGCGCGAAATTCGGCCCGTATATC
Original    1  CACGGCATCTATTATTCTTACTGGGAACATGAGTGGAGCGCCAAGTTCGGTCCCTATATC

Optimized  61  GAGAAGGTTGCGAAACTGGGTTTTGACATCATTGAAGTGGCGGCGCACCACATTAACGAG
Original   61  GAGAAGGTCGCCAAGCTCGGTTTCGACATCATCGAAGTCGCCGCCCACCATATCAACGAA

Optimized 121  TACAGCGATGCGGAACTGGCGACCATCCGTAAGAGCGCGAAAGACAACGGCATCATTCTG
Original  121  TACAGCGACGCCGAACTCGCGACCATCAGGAAGAGCGCGAAGGATAACGGCATCATCCTC

Optimized 181
ACCGCGGGTATTGGCCCGAGCAAGACCAAAAACCTGAGCAGCGAGGACGCGGCGGTTCGT
Original  181  ACCGCCGGCATCGGTCCGTCGAAAACCAAGAACCTGTCGTCGGAAGATGCTGCGGTGCGT

Optimized 241
GCGGCGGGTAAAGCGTTCTTTGAACGTACCCTGAGCAACGTGGCGAAGCTGGACATCCAC
Original  241  GCGGCCGGCAAGGCGTTCTTTGAAAGAACCCTTTCGAACGTCGCCAAGCTCGATATCCAC

Optimized 301
ACCATTGGTGGCGCGCTGCACAGCTACTGGCCGATCGACTATAGCCAGCCGGTTGACAAG
Original  301  ACCATCGGCGGCGCATTGCATTCCTATTGGCCAATCGATTATTCGCAGCCCGTCGACAAG

Optimized 361
GCGGGCGATTATGCGCGTGGTGTGGAGGGCATCAACGGTATTGCGGACTTCGCGAACGAT
Original  361  GCAGGCGATTATGCGCGCGGCGTCGAGGGTATCAACGGCATTGCCGATTTCGCCAATGAT

Optimized 421  CTGGGTATCAACCTGTGCATTGAGGTTCTGAACCGTTTCGAGAACCATGTGCTGAACACC
Original  421  CTCGGCATCAACCTGTGCATCGAAGTCCTCAACCGCTTTGAAAACCACGTCCTCAACACG

Optimized 481  GCGGCGGAAGGCGTGGCGTTTGTTAAGGATGTGGGTAAAAACAACGTGAAGGTTATGCTG
Original  481  GCGGCGGAAGGCGTCGCTTTTGTGAAGGATGTCGGCAAGAACAATGTGAAAGTCATGCTG

Optimized 541  GACACCTTCCACATGAACATTGAAGAGGACAGCTTTGGTGATGCGATCCGTACCGCGGGT
Original  541  GATACCTTCCACATGAACATCGAGGAAGACAGTTTCGGTGACGCCATCCGCACGGCCGGC

Optimized 601
CCGCTGCTGGGTCACTTCCACACCGGCGAGAGCAACCGTCGTGTTCCGGGTAAAGGCCGT
Original  601  CCGCTTCTGGGGCACTTCCATACCGGTGAAAGCAATCGCCGCGTACCGGGCAAGGGCAGA

Optimized 661  ATGCCGTGGCATGAAATTGGCCTGGCGCTGCGTGATATTAACTACACCGGTGCGGTTATC
Original  661  ATGCCGTGGCACGAAATCGGCCTTGCGCTGCGTGATATCAACTACACCGGCGCGGTAATC

Optimized 721  ATGGAGCCGTTTGTGAAAACCGGTGGCACCATCGGTAGCGACATTAAGGTTTGGCGTGAT
Original  721  ATGGAGCCTTTCGTCAAGACAGGCGGCACCATCGGCTCGGATATCAAGGTGTGGCGCGAC

Optimized 781
CTGAGCGGTGGCGCGGACATCGCGAAGATGGACGAAGATGCGCGTAACGCGCTGGCGTTC
Original  781  CTGAGCGGTGGCGCCGACATCGCGAAAATGGATGAAGATGCCCGCAATGCGCTGGCATTC

Optimized 841  AGCCGTTTTGTGCTGGGTGGCTGC
Original  841  TCCCGCTTCGTTCTTGGTGGCTGT
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