

44854_718_601_SL
SEQUENCE LISTING

<110> TWIST BIOSCIENCE CORPORATION

<120> OLIGONUCLEIC ACID VARIANT LIBRARIES AND SYNTHESIS THEREOF

<130> 44854-718.601

<140>

<141>

<150> 62/354,034

<151> 2016-06-23

<150> 62/263,548

<151> 2015-12-04

<150> 62/220,879

<151> 2015-09-18

<160> 31

<170> PatentIn version 3.5

<210> 1

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 1

atggtgagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 2

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
primer

<400> 2

atgttagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 3

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 3

atgttaagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 4

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 4

atgattagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 5

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 5

atgtctagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 6

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 6

atgcctagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 7

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 7

atgactagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 8

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 8

atggctagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 9

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 9

atgtatagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 10

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 10

atgcatagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 11

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 11

atgcaaagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 12

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 12

atgaatagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 13

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 13

atgaaaagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 14

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 14

atggatagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 15

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 15

atggaaagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 16

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 16

atgtgtagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 17

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 17

atgtggagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 18

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 18

atgcgtagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 19

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 19

atgggtagca agggcgagga gctgttcacc ggggtggtgc ccat

44

<210> 20

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 20

agacaatcaa ccatttgggg tggacagcct tgacctctag acttcggcat tttttttttt

60

tt

62

<210> 21

<211> 112

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 21

cgggatacctt atcgatcatcg tcgtacagat cccgacccat ttgctgtcca ccagtcatgc

60

tagccatacc atgatgatga tgatgatgag aaccccgcat tttttttttt tt

112

<210> 22

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 22

atgcgggggtt ctcatcatc

19

<210> 23
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 23
 cgggatacctt atcgatcatcg

20

<210> 24
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 24
 Ala Trp Ile Lys Arg Glu Gln
 1 5

<210> 25
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> Any amino acid

<400> 25
 Xaa Trp Ile Lys Arg Glu Gln
 1 5

<210> 26
 <211> 7
 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (2)..(2)

<223> Any amino acid

<400> 26

Ala Xaa Ile Lys Arg Glu Gln
1 5

<210> 27

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (3)..(3)

<223> Any amino acid

<400> 27

Ala Trp Xaa Lys Arg Glu Gln
1 5

<210> 28

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Any amino acid

<400> 28

Ala Trp Ile Xaa Arg Glu Gln
1 5

<210> 29

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (5)..(5)

<223> Any amino acid

<400> 29

Ala Trp Ile Lys Xaa Glu Gln
1 5

<210> 30

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (6)..(6)

<223> Any amino acid

<400> 30

Ala Trp Ile Lys Arg Xaa Gln
1 5

<210> 31

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

44854_718_601_SL

peptide

<220>

<221> MOD_RES

<222> (7)..(7)

<223> Any amino acid

<400> 31

Ala Trp Ile Lys Arg Glu Xaa

1

5