

# SEQUENCE LISTING

<110> TWIST BIOSCIENCE CORPORATION

<120> NUCLEIC ACID BASED DATA STORAGE

<130> 44854-738.601

<140>

<141>

<150> 62/462,284

<151> 2017-02-22

<160> 28

<170> PatentIn version 3.5

<210> 1

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 1

agacaatcaa ccatttgggg tggacagcct tgacctctag acttcggcat tttttttttt 60

tt 62

<210> 2

<211> 112

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
polynucleotide

<400> 2

cgggatcctt atcgtcatcg tcgtacagat cccgacccat ttgctgtcca ccagtcatgc 60

tagccatacc atgatgatga tgatgatgag aaccccgcat tttttttttt tt 112

<210> 3

<211> 19

<212> DNA

<213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic primer  
  
 <400> 3  
 atgcgggggtt ctcacatc 19

<210> 4  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic primer  
  
 <400> 4  
 cgggacatt atcgatcgc 20

<210> 5  
 <211> 11  
 <212> DNA  
 <213> Artificial Sequence

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

<220>  
 <221> modified\_base  
 <222> (3)..(6)  
 <223> a, c, t, g, unknown or other

<400> 5  
 acnnnngtay c 11

<210> 6  
 <211> 11  
 <212> DNA  
 <213> Artificial Sequence

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

<220>  
 <221> modified\_base  
 <222> (3)..(7)

<223> a, c, t, g, unknown or other

<400> 6

acnnnnnctc c

11

<210> 7

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 7

atctatgtcg ggtgcggaga aagaggtaat

30

<210> 8

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<220>

<221> modified\_base

<222> (4)..(8)

<223> a, c, t, g, unknown or other

<400> 8

caannnnngt gg

12

<210> 9

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<220>

<221> modified\_base

<222> (4)..(7)

<223> a, c, t, g, unknown or other

<400> 9  
cacnnnngtg 10

<210> 10  
<211> 10  
<212> DNA  
<213> Artificial Sequence

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

<220>  
<221> modified\_base  
<222> (4)..(7)  
<223> a, c, t, g, unknown or other

<400> 10  
caynnnnrtg 10

<210> 11  
<211> 15  
<212> DNA  
<213> Artificial Sequence

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

<220>  
<221> modified\_base  
<222> (4)..(12)  
<223> a, c, t, g, unknown or other

<400> 11  
ccannnnnnn nntgg 15

<210> 12  
<211> 12  
<212> DNA  
<213> Artificial Sequence

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

<220>

<221> modified\_base  
<222> (4)..(9)  
<223> a, c, t, g, unknown or other

<400> 12  
ccannnnnnt gg 12

<210> 13  
<211> 11  
<212> DNA  
<213> Artificial Sequence

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

<220>  
<221> modified\_base  
<222> (4)..(8)  
<223> a, c, t, g, unknown or other

<400> 13  
ccannnnntg g 11

<210> 14  
<211> 11  
<212> DNA  
<213> Artificial Sequence

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

<220>  
<221> modified\_base  
<222> (3)..(9)  
<223> a, c, t, g, unknown or other

<400> 14  
ccnnnnnnng g 11

<210> 15  
<211> 11  
<212> DNA  
<213> Artificial Sequence

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

oligonucleotide

<220>  
<221> modified\_base  
<222> (4)..(8)  
<223> a, c, t, g, unknown or other

<400> 15  
cctnnnnnag g

11

<210> 16  
<211> 12  
<212> DNA  
<213> Artificial Sequence

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

<220>  
<221> modified\_base  
<222> (4)..(9)  
<223> a, c, t, g, unknown or other

<400> 16  
cgannnnnnt gc

12

<210> 17  
<211> 10  
<212> DNA  
<213> Artificial Sequence

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

<220>  
<221> modified\_base  
<222> (4)..(7)  
<223> a, c, t, g, unknown or other

<400> 17  
gaannnnnttc

10

<210> 18  
<211> 10  
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<220>

<221> modified\_base

<222> (4)..(7)

<223> a, c, t, g, unknown or other

<400> 18

gacnnnngtc

10

<210> 19

<211> 11

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<220>

<221> modified\_base

<222> (4)..(8)

<223> a, c, t, g, unknown or other

<400> 19

gacnnnnngt c

11

<210> 20

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<220>

<221> modified\_base

<222> (4)..(9)

<223> a, c, t, g, unknown or other

<400> 20

gacnnnnnng tc

12

<210> 21  
<211> 10  
<212> DNA  
<213> Artificial Sequence

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

<220>  
<221> modified\_base  
<222> (4)..(7)  
<223> a, c, t, g, unknown or other

<400> 21  
gatnnnnatc

10

<210> 22  
<211> 11  
<212> DNA  
<213> Artificial Sequence

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

<220>  
<221> modified\_base  
<222> (4)..(8)  
<223> a, c, t, g, unknown or other

<400> 22  
gcannnnntg c

11

<210> 23  
<211> 11  
<212> DNA  
<213> Artificial Sequence

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

<220>  
<221> modified\_base  
<222> (4)..(8)  
<223> a, c, t, g, unknown or other

<400> 23  
gccnnnnnngg c 11

<210> 24  
<211> 11  
<212> DNA  
<213> Artificial Sequence

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

<220>  
<221> modified\_base  
<222> (3)..(9)  
<223> a, c, t, g, unknown or other

<400> 24  
gcnnnnnnng c 11

<210> 25  
<211> 13  
<212> DNA  
<213> Artificial Sequence

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

<220>  
<221> modified\_base  
<222> (5)..(9)  
<223> a, c, t, g, unknown or other

<400> 25  
ggccnnnnng gcc 13

<210> 26  
<211> 27  
<212> DNA  
<213> Artificial Sequence

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

<400> 26

taactataac ggtcctaagg tagcgaa 27

<210> 27

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 27

tagggataac agggtaat 18

<210> 28

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 28

tggcaaacag ctattatggg tattatgggt 30