SEQUENCE LISTING

<110> ModernaTX, Inc.

<120> HIGH PURITY RNA COMPOSITIONS AND METHODS FOR PREPARATION THEREOF

<130> M1378.70047US02

<140> US 16/001,786
<141> 2018-06-06

<150> PCT/US2017/051674
<151> 2017-09-14

<150> US 62/394,711
<151> 2016-09-14

<160> 35

<170> PatentIn version 3.5

<210> 1
<211> 12
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<400> 1
cucuuauuuc cc 12

<210> 2
<211> 49
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by OH

<220>
<221> misc_feature
<222> (49)..(49)
<223> Modified by ppp

<400> 2
ggaaauaaga gagaaaagac ccuuuauucu cucuuuucuu cucauucuu 49

<210> 3
<211> 55
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by OH

<220>
<221> misc_feature
<222> (55)..(55)
<223> Modified by ppp

<400> 3
gggaaauaag agagaaaaga agagucccuu uauucucucu uuucuucuca uucuu 55

<210> 4
<211> 60
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by OH

<220>
<221> misc_feature
<222> (60)..(60)
<223> Modified by ppp

<400> 4
gggaaauaag agagaaaaga agaguaagaa cccuuuauuc ucucuuuucu ucucauucuu 60

<210> 5
<211> 65
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by OH

<220>
<221> misc_feature
<222> (65)..(65)
<223> Modified by ppp

<400> 5
gggaaauaag agagaaaaga agaguaagaa gaaaucccuu uauucucucu uuucuucuca 60

uucuu 65

<210> 6
<211> 70
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by OH

<220>
<221> misc_feature
<222> (70)..(70)
<223> Modified by ppp

<400> 6
gggaaauaag agagaaaaga agaguaagaa gaaauauaag cccuuuauuc ucucuuuucu 60

ucucauucuu 70

<210> 7
<211> 12
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by ppp

<400> 7
gggaaauaag ag 12

<210> 8
<211> 12
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by ppp

<400> 8
cucuuauuuc cc 12

<210> 9

<211> 16
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by ppp

<220>
<221> misc_feature
<222> (16)..(16)
<223> Modified by ppp

<400> 9
gggaaauacc cuuuau 16

<210> 10
<211> 24
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by ppp

<220>
<221> misc_feature
<222> (24)..(24)
<223> Modified by ppp

<400> 10
gggaaauaag agcccuuuau ucuc 24

<210> 11
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by ppp

<220>
<221> misc_feature
<222> (20)..(20)
<223> Modified by ppp

<400> 11
gggaaauacc cuuuauucuc 20

<210> 12
<211> 20
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by ppp

<220>
<221> misc_feature
<222> (20)..(20)
<223> Modified by ppp

<400> 12
gggaaauaag agcccuuuau 20

<210> 13
<211> 31
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by ppp

<220>
<221> misc_feature
<222> (31)..(31)
<223> Modified by ppp

<400> 13
gggaaauaag agaaaagaag agucccuuua u 31

<210> 14
<211> 35
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)

<223> Modified by ppp

<220>
<221> misc_feature
<222> (35)..(35)
<223> Modified by ppp

<400> 14
gggaaauaag agaaaagaag agucccuuua uucuc 35

<210> 15
<211> 40
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by ppp

<220>
<221> misc_feature
<222> (40)..(40)
<223> Modified by ppp

<400> 15
gggaaauaag agagaaaaga cccuuuauuc ucucuuuucu 40

<210> 16
<211> 41
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by OH

<220>
<221> misc_feature
<222> (41)..(41)
<223> Modified by ppp

<400> 16
aaaaaaaaaa aaaaaaaaaa aaaaauuuuu uuuuuuuuuu u 41

<210> 17
<211> 45
<212> RNA
<213> Artificial Sequence

<220>

<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by OH

<220>
<221> misc_feature
<222> (45)..(45)
<223> Modified by ppp

<400> 17
aaaaaaaaaa aaaaaaaaaa aaaaauuuuu uuuuuuuuuu uuuuu 45

<210> 18
<211> 49
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by OH

<220>
<221> misc_feature
<222> (49)..(49)
<223> Modified by ppp

<400> 18
aaaaaaaaaa aaaaaaaaaa aaaaauuuuu uuuuuuuuuu uuuuuuuuu 49

<210> 19
<211> 43
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by ppp

<220>
<221> misc_feature
<222> (43)..(43)
<223> Modified by ppp

<400> 19
gggaaauaag agaaaagaag agucccuuua uucucucuuu ucu 43

<210> 20
<211> 40
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by ppp

<220>
<221> misc_feature
<222> (40)..(40)
<223> Modified by ppp

<400> 20
gggaaauaag agagaaaaga cccuuuauuc ucucuuuucu 40

<210> 21
<211> 40
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by ppp

<220>
<221> misc_feature
<222> (40)..(40)
<223> Modified by OH

<400> 21
gggaaauaag agagaaaaga cccuuuauuc ucucuuuucu 40

<210> 22
<211> 40
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by OH

<220>
<221> misc_feature
<222> (40)..(40)

<223> Modified by ppp

<400> 22
gggaaauaag agagaaaaga cccuuuauuc ucucuuuucu 40

<210> 23
<211> 45
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by OH

<220>
<221> misc_feature
<222> (45)..(45)
<223> Modified by ppp

<400> 23
gggaaauaag agagaaaaga agagucccuu uauucucucu uuucu 45

<210> 24
<211> 50
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by OH

<220>
<221> misc_feature
<222> (50)..(50)
<223> Modified by ppp

<400> 24
gggaaauaag agagaaaaga agaguaagaa cccuuuauuc ucucuuuucu 50

<210> 25
<211> 55
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature

<222> (1)..(1)
<223> Modified by OH

<220>
<221> misc_feature
<222> (55)..(55)
<223> Modified by ppp

<400> 25
gggaaauaag agagaaaaga agaguaagaa gaaaucccuu uauucucucu uuucu 55

<210> 26
<211> 60
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by OH

<220>
<221> misc_feature
<222> (60)..(60)
<223> Modified by ppp

<400> 26
gggaaauaag agagaaaaga agaguaagaa gaaauauaag cccuuuauuc ucucuuuucu 60

<210> 27
<211> 67
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> Modified by OH

<220>
<221> misc_feature
<222> (67)..(67)
<223> Modified by ppp

<400> 27
gggaaauaag agagaaaaga agaguaagaa gaaauauaag agccaccccc uuuauucucu 60

cuuuucu 67

<210> 28
<211> 26
<212> RNA

<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<400> 28
gacucuucuu uucucucuua uuuccc 26

<210> 29
<211> 31
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<400> 29
guucuuacuc uucuuuucuc ucuuauuucc c 31

<210> 30
<211> 36
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<400> 30
gauuucuucu uacucuucuu uucucucuua uuuccc 36

<210> 31
<211> 60
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<400> 31
gggaaauaag agagaaaaga agaguaagaa gaaauauaag agccaccaug ggagugcacg 60

<210> 32
<211> 60
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic Polynucleotide

<400> 32
cgugcacucc caugguggcu cuuauauuuc uucuuacucu ucuuuucucu cuuauuuccc 60

<210> 33
<211> 31
<212> RNA
<213> Artificial Sequence

<220>

<223> Synthetic polynucleotide

<400> 33
agggaaauaa gagagaaaag aagaguaaga a 31

<210> 34
<211> 31
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 34
cgggaaauaa gagagaaaag aagaguaaga a 31

<210> 35
<211> 31
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic polynucleotide

<400> 35
ugggaaauaa gagagaaaag aagaguaaga a 31