SEQUENCE LISTING

<110> CureVac GmbH
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VOSS, Söhnke
KRAMPS, Thomas
KALLEN, Kajo

<120> Complexation of nucleic acids with disulfide-linked cationic polymers for transfection and immunostimulation

<130> CU01P094WO

<160> 387

<170> PatentIn version 3.5

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Cys

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Arg Cys

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Arg Arg Arg Cys
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Gln Asn
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His Asp
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Asp Asp
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gguuuuuuuu uuuugg 16

<210> 352
<211> 17
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 352
gguuuuuuuu uuuuugg 17

<210> 353
<211> 18
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 353
gguuuuuuuu uuuuuugg 18

<210> 354
<211> 19
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 354
gguuuuuuuu uuuuuuugg 19

<210> 355
<211> 9
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 355
ggguuuggg 9

<210> 356
<211> 10
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 356
ggguuuuggg 10

<210> 357
<211> 11
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 357
ggguuuuugg g 11

<210> 358
<211> 12
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 358
ggguuuuuug gg 12

<210> 359
<211> 13
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 359
ggguuuuuuu ggg 13

<210> 360
<211> 14
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 360
ggguuuuuuu uggg 14

<210> 361
<211> 15
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 361
ggguuuuuuu uuggg 15

<210> 362
<211> 16
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 362
ggguuuuuuu uuuggg 16

<210> 363
<211> 17
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 363
ggguuuuuuu uuuuggg 17

<210> 364
<211> 18
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 364
ggguuuuuuu uuuuuggg 18

<210> 365
<211> 19
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 365
ggguuuuuuu uuuuuuggg 19

<210> 366
<211> 57
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 366
ggguuuuuuu uuuuuuuugg guuuuuuuuu uuuuuugggu uuuuuuuuuu uuuuggg 57

<210> 367
<211> 42
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (II)

<400> 367
ggguuuuuuu uuuuuuuugg gggguuuuuu uuuuuuuuug gg 42

<210> 368
<211> 51
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (III)

<400> 368
ggguuugggu uuggguuugg guuuggguuu ggguuugggu uuggguuugg g 51

<210> 369
<211> 20

<212> RNA
<213> Artificial Sequence

<220>
<223> nucleic acid sequence according to formula (II) - Short GU rich

<400> 369
gguuuuuuuu uuuuuuuggg 20

<210> 370
<211> 57
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (III)

<400> 370
cccuuuuuuu uuuuuuuucc cuuuuuuuuu uuuuuucccu uuuuuuuuuu uuuuccc 57

<210> 371
<211> 51
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (III)

<400> 371
cccuuucccu uucccuuucc cuuucccuuu cccuuucccu uucccuuucc c 51

<210> 372
<211> 42
<212> RNA
<213> Artificial

<220>
<223> nucleic acid sequence according to formula (III)

<400> 372
cccuuuuuuu uuuuuuuucc ccccuuuuuu uuuuuuuuuc cc 42

<210> 373
<211> 60
<212> RNA
<213> Artificial Sequence

<220>
<223> nucleic acid sequence according to formula (IV)

<400> 373
uagcgaagcu cuuggaccua gguuuuuuuu uuuuuuuggg ugcguuccua gaaguacacg 60

<210> 374
<211> 120
<212> RNA
<213> Artificial Sequence

<220>
<223> nucleic acid sequence according to formula (IV)

<400> 374
uagcgaagcu cuuggaccua gguuuuuuuu uuuuuuuggg ugcguuccua gaaguacacg 60

aucgcuucga gaaccuggau ccaaaaaaaa aaaaaaaccc acgcaaggau cuucaugugc 120

<210> 375
<211> 229
<212> RNA
<213> Artificial Sequence

<220>
<223> nucleic acid sequence according to formula (IV)

<400> 375
gggagaaagc ucaagcuugg agcaaugccc gcacauugag gaaaccgagu ugcauaucuc 60

agaguauugg cccccgugua gguuauucuu gacagacagu ggagcuuauu cacucccagg 120

auccgagucg cauacuacgg uacuggugac agaccuaggu cgucaguuga ccaguccgcc 180

acuagacgug aguccgucaa agcaguuaga uguuacacuc uauuagauc 229

<210> 376
<211> 547
<212> RNA
<213> Artificial Sequence

<220>

gcuuauuaac gaacggcucc uccucuuaga cugcagcgua agugcggaau cuggggauca 360
aauuacugac ugccuggauu acccucggac auauaaccuu guagcacgcu guugcuguau 420
aggugaccaa cgcccacucg aguagaccag cucucuuagu ccggacaaug auaggaggcg 480
cggucaaucu acuucuggcu aguuaagaau aggcugcacc gaccucuaua aguagcgugu 540
ccucuagagc uacgcagguu cgcaauaaaa gcguugauua gugugcauag aacagaccuc 600
uuauucggug aaacgccaga augcuaaauu ccaauaacuc uucccaaaac gcguacggcc 660
gaagacgcgc gcuuaucuug uguacguucu cgcacaugga agaaucagcg ggcauggugg 720
uagggcaaua ggggagcugg guagcagcga aaaagggccc cugcgcacgu agcuucgcug 780
uucgucugaa acaacccggc auccguugua gcgaucccgu uaucaguguu auucuugugc 840
gcacuaagau ucauggugua gucgacaaua acagcgucuu ggcagauucu ggucacgugc 900
ccuaugcccg ggcuugugcc ucucaggugc acagcgauac uuaaagccuu caagguacuc 960
gacgugggua ccgauucgug acacuuccua agauuauucc acuguguuag ccccgcaccg 1020
ccgaccuaaa cugguccaau guauacgcau ucgcugagcg gaucgauaau aaaagcuuga 1080

gaaaucccgu ucagguuuuu uuuuuuuuuu uuuuuuccgc ucacuaugau uaagaaccag 420

guggaguguc acugcucucg aggucucacg agagcgcucg auacaguccu uggaagaauc 480

uuuuuuuuuu uuuuuuuuuu uugugcgacg aucacagaga acuucuauuc augcaggucu 540

gcucua 546

<210> 380
<211> 1083
<212> RNA
<213> Artificial Sequence

<220>
<223> nucleic acid sequence according to formula (IV)

<400> 380
gggagaaagc ucaagcuuau ccaaguaggc uggucaccug uacaacguag ccgguauuuu 60

uuuuuuuuuu uuuuuuuuga ccgucucaag guccaaguua gucugccuau aaaggugcgg 120

auccacagcu gaugaaagac uugugcggua cgguuaaucu ccccuuuuuu uuuuuuuuuu 180

uuuuuaguaa augcgucuac ugaauccagc gaugaugcug gcccagaucu ucgaccacaa 240

gugcauauag uagucaucga gggucgcccu uuuuuuuuuu uuuuuuuuuu ugggccaguu 300

<210> 382
<211> 120
<212> RNA
<213> Artificial Sequence

<220>
<223> nucleic acid sequence according to formula (V)

<400> 382
uagcgaagcu cuuggaccua ccuuuuuuuu uuuuuuuccc ugcguuccua gaaguacacg 60

aucgcuucga gaaccuggau ggaaaaaaaa aaaaaaaggg acgcaaggau cuucaugugc 120

<210> 383
<211> 15
<212> RNA
<213> Artificial

<220>
<223> Description of sequence: generic stabilizing sequence of the formula (C/U)CCANxCCC(U/A)PyxUC(C/U)CC

<220>
<221> variation
<222> (1)..(1)
<223> /replace="cytosine" /replace="uracile"

<220>
<221> misc_feature
<222> (1)..(1)
<223> nucleic acid = cytosine or uracil

<220>
<221> misc_feature
<222> (5)..(5)
<223> Nx = a, g, c or u or any other nucleic acid

<220>
<221> variation
<222> (5)..(5)
<223> /replace="cytosine" /replace="uracile" /replace="guanosine" /replace="adenosine", or any other nucleic acid

<220>
<221> repeat_unit
<222> (5)..(5)
<223> x = any number

<220>
<221> misc_feature
<222> (9)..(9)
<223> nucleic acid = uracil or adenosine

<220>
<221> variation
<222> (9)..(9)
<223> /replace="uracile" /replace="adonosine"

<220>
<221> misc_feature
<222> (10)..(10)
<223> Py = pyrimidine

<220>
<221> repeat_unit
<222> (10)..(10)
<223> x = any number

<220>
<221> variation
<222> (10)..(10)
<223> /replace="pyrimidine"

<220>
<221> misc_feature
<222> (13)..(13)
<223> nucleic acid = cytosine or uracil

<220>
<221> variation
<222> (13)..(13)
<223> /replace="cytosine" /replace="uracile"

<400> 383
nccancccnn ucncc 15

<210> 384
<211> 1845
<212> DNA
<213> Artificial Sequence

<220>
<223> R1180 - exemplary nucleic acid cargo

gaugaucaug agcggcuacg ugaacaaccc ggaggccacc aacgcccuca ucgacaagga 1260

cggcuggcug cacagcggcg acaucgccua cugggacgag gacgagcacu ucuucaucgu 1320

cgaccggcug aagucgcuga ucaaguacaa gggcuaccag guggcgccgg ccgagcugga 1380

gagcauccug cuccagcacc ccaacaucuu cgacgccggc guggccgggc ugccggacga 1440

cgacgccggc gagcugccgg ccgcgguggu ggugcuggag cacggcaaga ccaugacgga 1500

gaaggagauc gucgacuacg uggccagcca ggugaccacc gccaagaagc ugcggggcgg 1560

cgugguguuc guggacgagg ucccgaaggg ccugaccggg aagcucgacg cccggaagau 1620

ccgcgagauc cugaucaagg ccaagaaggg cggcaagauc gccguguaag acuaguuaua 1680

agacugacua gcccgauggg ccucccaacg ggcccuccuc cccuccuugc accgagauua 1740

auaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1800

aaaaaauauu cccccccccc cccccccccc cccccccccc ucuag 1845

<210> 385
<211> 547
<212> DNA
<213> Artificial Sequence

ccaccggauc guggugugcu cggagaacag ccugcaguuc uucaugccgg ugcugggcgc 300
ccucuucauc ggcguggccg ucgccccggc gaacgacauc uacaacgagc gggagcugcu 360
gaacagcaug gggaucagcc agccgaccgu gguguucgug agcaagaagg gccugcagaa 420
gauccugaac gugcagaaga agcugcccau cauccagaag aucaucauca uggacagcaa 480
gaccgacuac cagggcuucc agucgaugua cacguucgug accagccacc ucccgccggg 540
cuucaacgag uacgacuucg ucccggagag cuucgaccgg gacaagacca ucgcccugau 600
caugaacagc agcggcagca ccggccugcc gaagggggug gcccugccgc accggaccgc 660
cugcgugcgc uucucgcacg cccgggaccc caucuucggc aaccagauca ucccggacac 720
cgccauccug agcguggugc cguuccacca cggcuucggc auguucacga cccugggcua 780
ccucaucugc ggcuuccggg ugguccugau guaccgguuc gaggaggagc uguuccugcg 840
gagccugcag gacuacaaga uccagagcgc gcugcucgug ccgacccugu ucagcuucuu 900
cgccaagagc acccugaucg acaaguacga ccugucgaac cugcacgaga ucgccagcgg 960
gggcgccccg cugagcaagg aggugggcga ggccguggcc aagcgguucc accucccggg 1020