

<213> Artificial
 <220>
 <223> Description of artificial sequence: Exemplary core structure
 "G1XmGn"
 <400> 26
 gggggguuuuuuuuuuuuuggg gg 22

 <210> 27
 <211> 22
 <212> RNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Exemplary core structure
 "G1XmGn"
 <400> 27
 gggggguuuuuuuuuuuuuggg gg 22

 <210> 28
 <211> 22
 <212> RNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Exemplary core structure
 "G1XmGn"
 <400> 28
 gggggguuuuuuuuuuuuuggg gg 22

 <210> 29
 <211> 22
 <212> RNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Exemplary core structure
 "G1XmGn"
 <400> 29
 gggggguuuuuuuuuuuuuug gg 22

 <210> 30
 <211> 22
 <212> RNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Exemplary core structure
 "G1XmGn"
 <400> 30
 ggguuuuuuuuuuuuuuuuuug gg 22

 <210> 31
 <211> 22
 <212> RNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Exemplary core structure

"G1XmGn"

<400> 31
gguuuuuuuuuu uuuuuuuuuuu gg 22

<210> 32
<211> 24
<212> RNA
<213> Artificial

<220>
<223> Description of artificial sequence: Exemplary core structure
"G1XmGn"

<400> 32
ggggggggggg guuuuuuuuuuu gggg 24

<210> 33
<211> 24
<212> RNA
<213> Artificial

<220>
<223> Description of artificial sequence: Exemplary core structure
"G1XmGn"

<400> 33
ggggggggggg uuuuuuuuuuu gggg 24

<210> 34
<211> 24
<212> RNA
<213> Artificial

<220>
<223> Description of artificial sequence: Exemplary core structure
"G1XmGn"

<400> 34
ggggggggggg uuuuuuuuuuu gggg 24

<210> 35
<211> 24
<212> RNA
<213> Artificial

<220>
<223> Description of artificial sequence: Exemplary core structure
"G1XmGn"

<400> 35
ggggggggggg uuuuuuuuuuu gggg 24

<210> 36
<211> 24
<212> RNA
<213> Artificial

<220>
<223> Description of artificial sequence: Exemplary core structure
"G1XmGn"

<400> 36
ggggggggggg uuuuuuuuuuu gggg 24

<210> 37
<211> 24
<212> RNA
<213> Artificial

<220>
<223> Description of artificial sequence: Exemplary core structure
"G1XmGn"

<400> 37
ggggggggguu uuuuuuuggg gggg 24

<210> 38
<211> 24
<212> RNA
<213> Artificial

<220>
<223> Description of artificial sequence: Exemplary core structure
"G1XmGn"

<400> 38
ggggggggguu uuuuuuuugg gggg 24

<210> 39
<211> 24
<212> RNA
<213> Artificial

<220>
<223> Description of artificial sequence: Exemplary core structure
"G1XmGn"

<400> 39
gggggggguuu uuuuuuuugg gggg 24

<210> 40
<211> 24
<212> RNA
<213> Artificial

<220>
<223> Description of artificial sequence: Exemplary core structure
"G1XmGn"

<400> 40
gggggggguuu uuuuuuuuug gggg 24

<210> 41
<211> 24
<212> RNA
<213> Artificial

<220>
<223> Description of artificial sequence: Exemplary core structure
"G1XmGn"

<400> 41
ggggggguuuu uuuuuuuuug gggg 24

<210> 42
<211> 24

<211> 11
 <212> RNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Exemplary core structure
 "G1XmGn"
 <400> 58
 gguuuuuuuug g 11

<210> 59
 <211> 12
 <212> RNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Exemplary core structure
 "G1XmGn"
 <400> 59
 gguuuuuuuuu gg 12

<210> 60
 <211> 13
 <212> RNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Exemplary core structure
 "G1XmGn"
 <400> 60
 gguuuuuuuuu ugg 13

<210> 61
 <211> 14
 <212> RNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Exemplary core structure
 "G1XmGn"
 <400> 61
 gguuuuuuuuu uuugg 14

<210> 62
 <211> 15
 <212> RNA
 <213> Artificial
 <220>
 <223> Description of artificial sequence: Exemplary core structure
 "G1XmGn"
 <400> 62
 gguuuuuuuuu uuugg 15

<210> 63
 <211> 16
 <212> RNA
 <213> Artificial

<400> 68
 ggguuuuuggg 10

<210> 69
 <211> 11
 <212> RNA
 <213> Artificial

<220>
 <223> Description of artificial sequence: Exemplary core structure
 "GIXmGn"

<400> 69
 ggguuuuugg g 11

<210> 70
 <211> 12
 <212> RNA
 <213> Artificial

<220>
 <223> Description of artificial sequence: Exemplary core structure
 "GIXmGn"

<400> 70
 ggguuuuuug gg 12

<210> 71
 <211> 13
 <212> RNA
 <213> Artificial

<220>
 <223> Description of artificial sequence: Exemplary core structure
 "GIXmGn"

<400> 71
 ggguuuuuuu ggg 13

<210> 72
 <211> 14
 <212> RNA
 <213> Artificial

<220>
 <223> Description of artificial sequence: Exemplary core structure
 "GIXmGn"

<400> 72
 ggguuuuuuu uggg 14

<210> 73
 <211> 15
 <212> RNA
 <213> Artificial

<220>
 <223> Description of artificial sequence: Exemplary core structure
 "GIXmGn"

<400> 73
 ggguuuuuuu uuggg 15

<210> 74
 <211> 16
 <212> RNA
 <213> Artificial

 <220>
 <223> Description of artificial sequence: Exemplary core structure
 "G1XmGn"

 <400> 74
 ggguuuuuuuu uuuggg 16

<210> 75
 <211> 17
 <212> RNA
 <213> Artificial

 <220>
 <223> Description of artificial sequence: Exemplary core structure
 "G1XmGn"

 <400> 75
 ggguuuuuuuu uuuuggg 17

<210> 76
 <211> 18
 <212> RNA
 <213> Artificial

 <220>
 <223> Description of artificial sequence: Exemplary core structure
 "G1XmGn"

 <400> 76
 ggguuuuuuuu uuuuuggg 18

<210> 77
 <211> 19
 <212> RNA
 <213> Artificial

 <220>
 <223> Description of artificial sequence: Exemplary core structure
 "G1XmGn"

 <400> 77
 ggguuuuuuuu uuuuuuggg 19

<210> 78
 <211> 57
 <212> RNA
 <213> Artificial

 <220>
 <223> Description of artificial sequence: Exemplary core structure
 "G1XmGn"

 <400> 78
 ggguuuuuuuu uuuuuuuugg guuuuuuuuu uuuuuugggu uuuuuuuuuuu uuuggg 57

<210> 79
 <211> 42
 <212> RNA
 <213> Artificial

<210> 89
 <211> 40
 <212> RNA
 <213> Artificial

 <220>
 <223> Description of sequence: Exemplary sequence according to general formula (II)

 <220>
 <221> misc_feature
 <222> (1)..(20)
 <223> sequence is ds RNA (poly(I:C))

 <400> 89
 ccccccccc ccccccccc gguuuuuuuu uuuuuuuggg 40

<210> 90
 <211> 40
 <212> RNA
 <213> Artificial

 <220>
 <223> Description of sequence: Exemplary sequence according to general formula (II)

 <220>
 <221> misc_feature
 <222> (23)..(37)
 <223> sequence is double stranded ((A:U))

 <400> 90
 ccccccccc ccccccccc gguuuuuuuu uuuuuuuggg 40

<210> 91
 <211> 40
 <212> RNA
 <213> Artificial

 <220>
 <223> Description of sequence: Exemplary sequence according to general formula (II)

 <220>
 <221> misc_feature
 <222> (1)..(40)
 <223> sequence is double-stranded RNA

 <400> 91
 ccccccccc ccccccccc gguuuuuuuu uuuuuuuggg 40

<210> 92
 <211> 80
 <212> RNA
 <213> Artificial

 <220>
 <223> Description of sequence: Exemplary sequence according to general formula (II)

 <400> 92
 ccccccccc ccccccccc uagcgaagcu cuuggaccua gguuuuuuuu uuuuuuuggg 60

ugcguuccua gaaguacacg 80

<210> 93
<211> 80
<212> RNA
<213> Artificial

<220>
<223> Description of sequence: Exemplary sequence according to general formula (II)

<220>
<221> misc_feature
<222> (1)..(80)
<223> sequence is double-stranded RNA

<400> 93
cccccccccc ccccccccc gguuuuuuuuu uuuuuuuggg ugcguuccua gaaguacacg 60
uagcgaagcu cuuggaccua 80

<210> 94
<211> 80
<212> RNA
<213> Artificial

<220>
<223> Description of sequence: Exemplary sequence according to general formula (II)

<220>
<221> misc_feature
<222> (21)..(80)
<223> sequence is double stranded RNA

<400> 94
cccccccccc ccccccccc gguuuuuuuuu uuuuuuuggg ugcguuccua gaaguacacg 60
uagcgaagcu cuuggaccua 80

<210> 95
<211> 20
<212> RNA
<213> Artificial

<220>
<223> Description of sequence: exemplary sequence of stem 1 (sequence is palindromic to SEQ ID NO: 96)

<400> 95
uagcgaagcu cuuggaccua 20

<210> 96
<211> 20
<212> RNA
<213> Artificial

<220>
<223> Description of sequence: exemplary sequence of stem 2 (sequence is palindromic to SEQ ID NO: 95)

<400> 96
uagguccaag agcuucgcua 20

<210> 97
 <211> 11
 <212> RNA
 <213> Artificial

 <220>
 <223> Description of sequence: exemplary sequence of stem 1 (sequence
 is palindromic to SEQ ID NO: 98)

 <400> 97
 gccgcgggcc g 11

 <210> 98
 <211> 11
 <212> RNA
 <213> Artificial

 <220>
 <223> Description of sequence: exemplary sequence of stem 2 (sequence
 is palindromic to SEQ ID NO: 97)

 <400> 98
 cggcccgcgg c 11

 <210> 99
 <211> 10
 <212> RNA
 <213> Artificial

 <220>
 <223> Description of sequence: exemplary sequence of stem 1 (sequence
 is palindromic to SEQ ID NO: 100)

 <400> 99
 gacacggugc 10

 <210> 100
 <211> 10
 <212> RNA
 <213> Artificial

 <220>
 <223> Description of sequence: exemplary sequence of stem 2 (sequence
 is palindromic to SEQ ID NO: 99)

 <400> 100
 gcaccgugca 10

 <210> 101
 <211> 8
 <212> RNA
 <213> Artificial

 <220>
 <223> Description of sequence: exemplary sequence of either stem
 1/stem2 (sequence is intrinsic palindromic)

 <400> 101
 accuaggu 8

 <210> 102
 <211> 8

<212> RNA
 <213> Artificial
 <220>
 <223> Description of sequence: exemplary sequence of either stem 1/stem2 (sequence is intrinsic palindromic)
 <400> 102
 uggaucca 8

<210> 103
 <211> 5
 <212> RNA
 <213> Artificial
 <220>
 <223> Description of sequence: exemplary sequence of stem 1 (sequence is palindromic to SEQ ID NO: 104)
 <400> 103
 ccugc 5

<210> 104
 <211> 5
 <212> RNA
 <213> Artificial
 <220>
 <223> Description of sequence: exemplary sequence of stem 2 (sequence is palindromic to SEQ ID NO: 103)
 <400> 104
 gcagg 5

<210> 105
 <211> 5
 <212> RNA
 <213> Artificial
 <220>
 <223> Description of sequence: exemplary sequence of stem 1 (sequence is palindromic to SEQ ID NO: 106)
 <400> 105
 gcagg 5

<210> 106
 <211> 5
 <212> RNA
 <213> Artificial
 <220>
 <223> Description of sequence: exemplary sequence of stem 2 (sequence is palindromic to SEQ ID NO: 105)
 <400> 106
 ccugc 5

<210> 107
 <211> 60
 <212> RNA
 <213> Artificial
 <220>

<223> Description of sequence: inventive nucleic acid according to either formula (IIIa) or (IIIb)

<400> 107
uagcgaagcu cuuggaccua gguuuuuuuuuuuuuuuuggg uagguccaag agcuucgcua 60

<210> 108
<211> 122
<212> RNA
<213> Artificial

<220>
<223> Description of sequence: inventive nucleic acid according to either formula (IIIa) or (IIIb)

<400> 108
uagcgaagcu cuuggaccua gguuuuuuuuuuuuuuuuggg ugcgguuccua gaaguacacg 60
gccgcggggcc gugcguuccu agaaguacac gcggcccgcg gcugcguucc uagaaguaca 120
cg 122

<210> 109
<211> 18
<212> PRT
<213> Unknown

<220>
<223> Description of sequence: sequence of protamin P1

<400> 109
Ser Arg Ser Arg Tyr Tyr Arg Gln Arg Gln Arg Ser Arg Arg Arg Arg
1 5 10 15

Arg Arg

<210> 110
<211> 21
<212> PRT
<213> Unknown

<220>
<223> Description of sequence: sequence of protamin P2

<400> 110
Arg Arg Arg Leu His Arg Ile His Arg Arg Gln His Arg Ser Cys Arg
1 5 10 15

Arg Arg Lys Arg Arg
20

<210> 111
<211> 13
<212> RNA
<213> Unknown

<220>
<223> Description of sequence: Kozak sequence

<400> 111

<210> 112
<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="cytidine (cytosine)"

/replace="uridine (uracile)"

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

<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="cytidine (cytosine)"

/replace="uridine (uracile)"

/replace="guanosine"

/replace="adenosine", or any othe nucleic acid

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

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

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

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

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

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

<400> 112
nccancccn ucnc 15

<210> 113
<211> 20
<212> RNA
<213> Artificial

<220>
<223> Description of sequence: immune-stimulating oligo RNA40

<400> 113
gcccgucugu ugugugacuc 20

<210> 114
<211> 229
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of sequence: Exemplary sequence according to formula
(I)

<400> 114
gggagaaagc ucaagcuugg agcaaugccc gcacauugag gaaaccgagu ugcauauauc 60
agaguauugg cccccgugua gguuauucuu gacagacagu ggagcuuauu cacucccagg 120
auccgagucg cauacuacgg uacuggugac agaccuaggu cgucaguuga ccaguccgcc 180
acuagacgug aguccgucaa agcaguuaga uguuacacuc uauuagauc 229

<210> 115
<211> 547
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of sequence: Exemplary sequence according to formula
(I)

<400> 115
gggagaaagc ucaagcuugg agcaaugccc gcacauugag gaaaccgagu ugcauauauc 60
agaguauugg cccccgugua gguuauucuu gacagacagu ggagcuuauu cacucccagg 120
auccgagucg cauacuacgg uacuggugac agaccuaggu cgucaguuga ccaguccgcc 180
acuagacgug aguccgucaa agcaguuaga uguuacacuc uauuagaucu cggauuacag 240

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cuggaaggag	caggaguagu	guucuugcuc	uaaguaccga	gugugcccaa	uacccgauca	300
gcuuauuaac	gaacggcucc	uccucuuaga	cugcagcgua	agugcggaau	cuggggauca	360
aauuacugac	ugccuggauu	accucggac	auauaacuu	guagcacgcu	guugcuguau	420
aggugaccaa	cgcccacucg	aguagaccag	cucucuuagu	ccggacaau	auaggaggcg	480
cggucaaucu	acuucuggcu	aguuaagaau	aggcugcacc	gaccucuaua	aguagcgugu	540
ccucuag						547

<210> 116
 <211> 1083
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of sequence: Exemplary sequence according to formula (I)

<400> 116	gggagaaagc	ucaagcuugg	agcaaugccc	gcacauugag	gaaaccgagu	ugcauauauc	60
	agaguauugg	cccccgugua	gguuauucuu	gacagacagu	ggagcuuauu	cacucccagg	120
	auccgagucg	cauacuacgg	uacuggugac	agaccuaggu	cgucaguuga	ccaguccgcc	180
	acuagacgug	aguccgucaa	agcaguuaga	uguuacacuc	uauuagaucu	cggauuacag	240
	cuggaaggag	caggaguagu	guucuugcuc	uaaguaccga	gugugcccaa	uacccgauca	300
	gcuuauuaac	gaacggcucc	uccucuuaga	cugcagcgua	agugcggaau	cuggggauca	360
	aauuacugac	ugccuggauu	accucggac	auauaacuu	guagcacgcu	guugcuguau	420
	aggugaccaa	cgcccacucg	aguagaccag	cucucuuagu	ccggacaau	auaggaggcg	480
	cggucaaucu	acuucuggcu	aguuaagaau	aggcugcacc	gaccucuaua	aguagcgugu	540
	ccucuagagc	uacgcagguu	cgcauuaaaa	gcuugauua	gugugcauag	aacagaccuc	600
	uuauucggug	aaacgccaga	augcuaaaau	ccaauaacuc	uucccaaac	gcuacggcc	660
	gaagacgcg	gcuuauucug	uguacguucu	cgacaugga	agaucagcg	ggcauggugg	720
	uagggcaaua	ggggagcugg	guagcagcga	aaaagggccc	cugcgcacgu	agcuucgcu	780
	uucgucugaa	acaacccggc	auccguugua	gcauuccgu	uauaguguu	auucuuguc	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	gaucgaaau	aaaagcuuga	1080
	auu						1083

<210> 117
 <211> 229
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of sequence: Exemplary sequence according to formula
 Seite 25


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uuuuuuuuuuuu uuuuuuuuuuuu uugugcgacg aucacagaga acuucuaauuc augcaggucu      540
gcucuagaac gaacugaccu gacgccugaa cuuauagagcg ugcguauuuu uuuuuuuuuu      600
uuuuuuuuuuuc cucccaacaa augucgauca auagcugggc uguuggagac gcgucagcaa      660
augccguggc uccaauaggac guguagacuu cuauuuuuuuu uuuuuuuuuu uuuucccggg      720
accacaaaaua auauucuugc uugguugggc gcaagggccc cguaucaggu cauaaacggg      780
uacauguugc acaggcuccu uuuuuuuuuuu uuuuuuuuuuu uucgcugagu uauuccgguc      840
ucaaaaagacg gcagacguca gucgacaaca cggucuaaag cagugcuaca aucugccgug      900
uucguguuuu uuuuuuuuuuu uuuuuuuguga accuacacgg cgugcacugu aguucgcaau      960
ucauagggua ccggcucaga guuaugccuu gguugaaaac ugcccagcau acuuuuuuuu 1020
uuuuuuuuuuu uucauauucc caugcuaagc aagggaugcc gcgagucaug uuaagcuuga 1080
auu 1083

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<210> 120
<211> 1365
<212> RNA
<213> Artificial Sequence

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<220>
<223> Description of sequence: mRNA sequence according to SEQ ID NO: 1,
which exhibits a exhibits a length of 1365 nucleotides and was
termed "CAP-GgOva(GC)-muag-A70-C30".

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<400> 120
gggagaaaagc uuaccauggg cagcaucggg gccgcgucga uggaguucug cuucgacgug      60
uucaaggagc ugaaggucca ccacgccaac gagaacaucu ucuacugccc gaucgccauc      120
augagcgcgc ugccauggu guaccugggc gccaaaggaca gcacccggac gcagaucaac      180
aagguggucc gcuucgaaa gcugcccggc uucggggacu cgaucgaggc gcagugcggc      240
accagcguga acgugcacag cucgcuccgg gacaucuga accagaucac caagccgaac      300
gacgucuaca gcuucagccu ggccucgcgg cucuacgccg aggagcgcua cccgauccug      360
cccgaguacc ugcagugcgu gaaggagcuc uaccggggcg ggcuggagcc gaucaacuuc      420
cagacggcgg ccgaccaggc ccgggagcug aucaacagcu ggguggagag ccagaccaac      480
ggcaucaucc gcaacguccu ccagccgucg agcugggaca gccagaccgc gauggugcug      540
gucaacgcca ucguguucaa gggccugugg gagaagacgu ucaaggacga ggacacccag      600
gccaugcccu uccgggugac cgagcaggag ucgaagccgg uccagaugau guaccagauc      660
gggcucuucc ggguggcgag cauggccagc gagaagauga agauccugga gcugccguuc      720
gccucgggca cgauagcau gcucgugcug cugcccgacg aggucagcgg ccucgagcag      780
cuggagucga ucaucaacu cgagaagcug accgagugga ccagcagcaa cgugauggag      840
gagcgcaaga ucaaggugua ccucccgcg augaagaugg aggagaagua caaccugacg      900
ucgguccuga uggcgauggg gaucaccgac guguucagca gcucggccaa ccucagcggc      960
aucagcucgg ccgagagccu gaagaucagc caggcggugc acgccgcca cgcgagauc 1020
aacgaggccg gccgggaggu cguggggucg gccgaggcgg gcguggacgc cgccagcgc 1080

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agcgaggagu uccgcgcgga ccacccguuc cuguucugca ucaagcacau cgccaccaac 1140
 gccgugcucu ucuucggccg gugcgugucg cccugaccac uaguuaaag acugacuagc 1200
 ccgaugggcc uccaacggg ccuccuccc cuccuugcac cgagauuaa aaaaaaaaaa 1260
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaauuucc 1320
 cccccccccc cccccccccc cccccccuc uagacaauug gaauu 1365

<210> 121
 <211> 1816
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Description of sequence: mRNA sequence according to SEQ ID NO: 2,
 which exhibits a length of 1816 nucleotides and was termed
 "T7TS-Ppluc(wt)-A70

<400> 121
 gggagacaag cuuggcauuc cgguacuguu gguaaagcca ccauggaaga cgccaaaaac 60
 auaaagaaag gcccggcgcc auucuauccg cuggaagaug gaaccgcugg agagcaacug 120
 cauaaggcua ugaagagaua cgcccugguu ccuggaacia uugcuuuuac agaugcacau 180
 aucgaggugg acaucacuua cgugaguuac uucgaaaugu ccguucgguu ggcagaagcu 240
 augaaacgau augggcugaa uacaaaucac agaaucgucg uaugcaguga aaacucucu 300
 caauucuuua ugccgguguu gggcgcguaa uuuaucggag uugcaguugc gcccgcgaac 360
 gacauuuuaa augaacguga auugcucaac aguaugggca uuucgcagcc uaccguggug 420
 uucguuucca aaaagggguu gcaaaaaauu uugaacgucg aaaaaaagcu cccaaucauc 480
 caaaaaauua uuaucaugga uucuaaaacg gauuaccagg gauuucaguc gauguacacg 540
 uucgucacau cucaucuaac ucccgguuuu aaugaauacg auuuugugcc agaguccuuc 600
 gauagggaca agacaauugc acugaucaug aacuccucug gaucuaucugg ucugccuaaa 660
 ggugucgcuc ugccucauag aacugccugc gugagauucu cgcaugccag agauccuauu 720
 uuuggcaauc aaaucauucc ggauacugcg auuuuaagug uuguuccauu ccaucacggu 780
 uuuggaangu uuacuacacu cggauauuug auauguggau uucgagucgu cuuaanguau 840
 agauuugaag aagagcuguu ucugaggagc cuucaggauu acaagauuca aagugcgcug 900
 cuggugccaa cccuauucuc cuucucgcc aaaagcacuc ugauugaca auacgauua 960
 ucuaauuuac acgaaauugc uucugguggc gcuccccucu cuaaggaagu cggggaagcg 1020
 guugccaaga gguuccauuc gccagguauc aggcaaggau augggcucac ugagacuaca 1080
 ucagcuauuc ugauuacacc cgagggggau gaaaaaccgg gcgcgugcgg uaaaguuguu 1140
 ccuuuuuuug aagcgaaggu uguggaucug gauaccggga aaacgcuggg cguaauca 1200
 agaggcgaac ugugugugag agguccuauug auuauguccg guuauguaaa caauccggaa 1260
 gcgaccaacg ccuugauuga caaggaugga uggcuacauu cuggagacau agcuuacugg 1320
 gacgaagacg aacacuucuu caucguugac cgccugaagu cucugauuaa guacaaagcg 1380

uaucaggugg cucccguga auuggaaucc aucuugcucc aacaccccaa caucuugcag 1440
 gcaggugucg caggucuucc cgacgaugac gccggugaac uucccgccgc cguuguuguu 1500
 uuggagcacg gaaagacgau gacggaaaaa gagaucgugg auuacgucgc cagucaagua 1560
 acaaccgcga aaaaguugcg cggaggaguu guguuugugg acgaaguacc gaaaggucuu 1620
 accggaaaac ucgacgcaag aaaaaucaga gagauccuca uaaaggccaa gaagggcgga 1680
 aagaucgccg uguaauucua guaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacugcaggu cgacucuaga ggaucgccgg 1800
 guaccgagcu cgaauu 1816

<210> 122
 <211> 13
 <212> RNA
 <213> Artificial

<220>
 <223> Description of sequence: Kozak-sequence

<400> 122
 gccgccacca ugg 13

<210> 123
 <211> 15
 <212> RNA
 <213> Artificial

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

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

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

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

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

/replace="adonosine"

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

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

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

/replace="uracile"

<400> 123
nccancccn ucnc

15

<210> 124
<211> 1902
<212> RNA
<213> Influenza virus

<220>
<221> misc_feature
<223> Description of sequence: mRNA sequence encoding the pathogenic antigen hemagglutinin (HA) from influenza virus

<400> 124
gggagaaagc uuaccaugaa ggccaaccug cucgugcugc ugugcgcccu cgcggccgcc 60
gacgccgaca ccaucugcau cggcuaccac gccacaaca gcaccgacac ggucgacacc 120
gugcuggaga agaacgugac cgucaccac uccgugaacc ugcucgagga cagccacaac 180
gggaagcugu gccggcugaa gggcaucgcg cccuccagc uggggaagug caaucgccc 240
ggcuggcugc ucgggaaccc ggagugcgac cccugcugc ccgugcguc cuggagcuac 300
aucgucgaga cgccaacuc cgagaacggc aucugcuacc cgggcgacuu caucgacuac 360
gaggagcucc gggagcagcu gagcuccgug agcuccuucg agcgcuucga gaucucccc 420
aaggagagcu ccuggcccaa ccacaacacc aacgggguga ccgccgccug cagccacgag 480
ggcaagucca gcuucuaccg gaaccugcuc uggcugaccg agaaggagg guccuacccc 540
aagcugaaga acagcuacgu caacaagaag ggcaaggagg ugcucgugcu gugggggauc 600
caccaccgc ccaacuccaa ggagcagcag aaccuguacc agaacgagaa cgcguacguc 660
agcgugguga cguccaacua caaccgccg uucacccccg agaucgccga gcgccccaa 720
guccgggacc aggccggccg caugaacuac uacuggacc uccugaagcc gggcgacacc 780
aucaucuucg aggccaacgg gaaccugauc gccccgaugu acgcuucgc ccucagccgg 840
ggcuucggga gcggcaucau cacguccaac gccagcaugc acgagugcaa caccaagugc 900
cagaccccc ugggcgcca caacuccagc cugcccuacc agaacauc caacggugacc 960

aucggggagu gcccgaagua cgugcgcucc gccaaagcucc ggauggucac gggccugcgc	1020
aacaacccca gcauccaguc ccgggggcug uucggcgcga ucgccggguu caucgagggc	1080
ggcuggaccg ggaugaucga cggcugguac ggguaaccacc accagaacga gcagggcagc	1140
ggguacgccg ccgaccagaa guccacccag aacgccauca acggcaucac caacaaggug	1200
aacacgguga ucgagaagau gaacauccag uucaccgcgg ucggcaagga guucaacaag	1260
cucgagaagc gcauggagaa ccugaacaag aagguggacg acggguuccu ggacaucugg	1320
accuacaacg ccgagcuccu ggugcugcuc gagaacgagc ggaccucugga cuuccacgac	1380
agcaacguca agaaccugua cgagaaggug aagucccagc ucaagaacaa cgccaaggag	1440
aucggcaacg ggugcuucga guucuaccac aagugcgaca acgagugcau ggagagcgc	1500
cgcaacggca cguacgacua cccaaguac uccgaggaga gcaagcugaa ccgggagaag	1560
guggacgggg ugaagcugga guccaugggc aucuaccaga uccucgccau cuacagcacc	1620
gucgccucca gccuggugcu gcuggugucc cucggcgcga ucagcuucug gaugugcagc	1680
aacggguccc ugcagugccg caucugcauc ugaccacuag uuauaagacu gacuagcccg	1740
augggccucc caacggggcc uccuccccuc cuugcaccga gauuaauaaa aaaaaaaaaa	1800
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa auauuccccc	1860
cccccccccc ccccccccc cccccucuag acaauuggaa uu	1902