SEQUENCE LISTING

<110> CureVac GmbH

<120> Nucleic acid comprising a histone stem loop and optionally a polyadenylation sequence for increasing expression of an encoded protein

<130> CU01P088WO1

<160> 95

<170> PatentIn version 3.5

<210> 1
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> stem loop structure according to formula (Ic)

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

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (3)..(8)
<223> /replace="guanine" /replace="adenine" /replace="thymine" /replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (3)..(8)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (10)..(14)
<223> /replace="guanine" /replace="adenine" /replace="thymine" /replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (10)..(14)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (16)..(16)
<223> /replace="guanine" /replace="adenine" /replace="thymine" /replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (16)..(16)
<223> n is a, c, g, t or u

<400> 1
ngnnnnnnun nnnncn 16

<210> 2
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> stem loop structure according to formula (IIc)

<220>
<221> variation
<222> (1)..(6)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (1)..(6)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (8)..(13)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (8)..(13)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (15)..(19)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (15)..(19)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (21)..(26)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (21)..(26)
<223> n is a, c, g, t or u

<400> 2
nnnnnngnnn nnnunnnnnc nnnnnn 26

<210> 3
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> stem loop structure according to formula (Id)

<220>

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

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (3)..(8)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (3)..(8)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (10)..(14)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (10)..(14)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (16)..(16)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (16)..(16)
<223> n is a, c, g, t or u

<400> 3
ncnnnnnnun nnnngn 16

<210> 4
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> stem loop structure according to formula (IId)

<220>
<221> variation
<222> (1)..(6)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (1)..(6)
<223> n is a, c, g, t or u

<220>
<221> variation

<222> (8)..(13)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (8)..(13)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (15)..(19)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (15)..(19)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (21)..(26)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (21)..(26)
<223> n is a, c, g, t or u

<400> 4
nnnnnncnnn nnnunnnnng nnnnnn 26

<210> 5
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> stem loop structure according to formula (Ie)

<220>
<221> variation
<222> (3)..(8)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (3)..(8)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (10)..(14)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (10)..(14)
<223> n is a, c, g, t or u

<400> 5
dgnnnnnnun nnnnch 16

<210> 6
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> stem loop structure according to formula (IIe)

<220>
<221> variation
<222> (1)..(5)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (1)..(5)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (8)..(13)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (8)..(13)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (15)..(19)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (15)..(19)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (22)..(26)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (22)..(26)
<223> n is a, c, g, t or u

<400> 6
nnnnndgnnn nnnunnnnnc hnnnnn 26

<210> 7
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> stem loop structure according to formula (If)

<220>
<221> variation

<222> (1)..(1)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (3)..(3)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (7)..(8)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (7)..(8)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (10)..(10)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (10)..(10)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (12)..(12)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (12)..(12)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (14)..(14)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (14)..(14)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (16)..(16)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (16)..(16)
<223> n is a, c, g, t or u

<400> 7
ngnbyynnun rndncn 16

<210> 8
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> stem loop structure according to formula (IIf)

<220>
<221> variation
<222> (1)..(6)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (1)..(6)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (8)..(8)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (12)..(13)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (12)..(13)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (15)..(15)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (15)..(15)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (17)..(17)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (17)..(17)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (19)..(19)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (19)..(19)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (21)..(26)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (21)..(26)
<223> n is a, c, g, t or u

<400> 8
nnnnnngnby ynnunrndnc nnnnnn 26

<210> 9
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> stem loop structure according to formula (Ig)

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

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (8)..(8)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (16)..(16)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>

<221> misc_feature
<222> (16)..(16)
<223> n is a, c, g, t or u

<400> 9
nghyyydnth abrdcn 16

<210> 10
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> stem loop structure according to formula (IIg)

<220>
<221> variation
<222> (1)..(2)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (1)..(2)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (4)..(6)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (4)..(6)
<223> n is a, c, g, t or u

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

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (21)..(25)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (21)..(25)
<223> n is a, c, g, t or u

<400> 10
nnhnnnghyy ydnthabrdc nnnnnh 26

<210> 11
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> stem loop structure according to formula (Ih)

<400> 11
dghyctdyuh asrrcc 16

<210> 12
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> stem loop structure according to formula (IIh)

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

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (25)..(25)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (25)..(25)
<223> n is a, c, g, t or u

<400> 12
nhaahdghyc tdyuhasrrc cvhbnh 26

<210> 13
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ic)

<220>
<221> variation
<222> (4)..(4)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, t or u

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

<220>
<221> misc_feature
<222> (13)..(13)
<223> n is a, c, g, t or u

<400> 13
ggcnctttтc agngcc 16

<210> 14
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ie)

<220>
<221> variation
<222> (5)..(5)
<223> n = g or c or t/u or a (any base or not present)

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (7)..(8)
<223> n = g or c or t/u or a (any base or not present)

<220>
<221> misc_feature
<222> (7)..(8)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (10)..(10)
<223> n = g or c or t/u or a (any base or not present)

<220>
<221> misc_feature
<222> (10)..(10)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (12)..(13)
<223> n = g or c or t/u or a (any base or not present)

<220>
<221> misc_feature
<222> (12)..(13)
<223> n is a, c, g, t or u

<400> 14
ggctntnntn anngcc 16

<210> 15
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (If)

<400> 15
ggcbcttttc agdgcc 16

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

<220>
<223> histon stem loop sequence according to formula (Ig)

<400> 16
ggctctttth agagcc 16

<210> 17
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ih)

<400> 17
ggcyctttth agrgcc 16

<210> 18
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIc)

<220>
<221> variation
<222> (1)..(2)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (1)..(2)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (4)..(5)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (4)..(5)
<223> n is a, c, g, t or u

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

<220>
<221> misc_feature
<222> (9)..(9)

<223> n is a, c, g, t or u

<220>
<221> variation
<222> (18)..(18)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (18)..(18)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (24)..(26)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (24)..(26)
<223> n is a, c, g, t or u

<400> 18
nnannggcnc ttttcagngc cacnnn 26

<210> 19
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIe)

<220>
<221> variation
<222> (1)..(3)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (1)..(3)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (5)..(5)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (10)..(10)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (10)..(10)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (12)..(13)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (12)..(13)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (15)..(15)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (15)..(15)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (17)..(18)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (17)..(18)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (24)..(26)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (24)..(26)
<223> n is a, c, g, t or u

<400> 19
nnnanggctn tnntnanngc cacnnn 26

<210> 20
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIf)

<220>
<221> variation
<222> (1)..(2)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (1)..(2)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (4)..(5)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (4)..(5)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (24)..(26)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (24)..(26)
<223> n is a, c, g, t or u

<400> 20
nnannggcbc ttttcagdgc cacnnn 26

<210> 21
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIg)

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

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (5)..(5)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (25)..(25)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (25)..(25)
<223> n is a, c, g, t or u

<400> 21

ncaanggctc tttthagagc caccnh 26

<210> 22
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIh)

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

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (25)..(25)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (25)..(25)
<223> n is a, c, g, t or u

<400> 22
nhaahggcyc tttthagrgc cvgbnh 26

<210> 23
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ic)

<400> 23
vgyyyyhhth rvvrcb 16

<210> 24
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ic)

<400> 24
rgyyytttm agrrcs 16

<210> 25
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ic)

<400> 25
rgyyyttttm agrrcs 16

<210> 26
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ic)

<400> 26
rgyyyyyytm rrrrcs 16

<210> 27
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ic)

<400> 27
ggcyctttтc agrgcc 16

<210> 28
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ic)

<400> 28
ggccctttтc agggcc 16

<210> 29
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ie)

<220>
<221> variation
<222> (3)..(5)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (3)..(5)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (7)..(8)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature

<222> (7)..(8)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (12)..(14)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (12)..(14)
<223> n is a, c, g, t or u

<400> 29
dgnnnbnnth vnnnch 16

<210> 30
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ie)

<220>
<221> variation
<222> (3)..(5)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (3)..(5)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (13)..(14)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (13)..(14)
<223> n is a, c, g, t or u

<400> 30
rgnnnyhbth rdnncy 16

<210> 31
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ie)

<220>
<221> variation
<222> (3)..(3)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>

<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (14)..(14)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (14)..(14)
<223> n is a, c, g, t or u

<400> 31
rgndbyhyth rdhncy 16

<210> 32
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ie)

<400> 32
rgykyywytw rrmrcy 16

<210> 33
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ie)

<400> 33
ggctytwytw armgcc 16

<210> 34
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ie)

<400> 34
ggcttttta agagcc 16

<210> 35
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (If)

<400> 35
vgyyytyhth ryrrcb 16

<210> 36
<211> 16

<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (If)

<400> 36
sgyycttytm agrrcs 16

<210> 37
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (If)

<400> 37
sgyyctttm agrrcs 16

<210> 38
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (If)

<400> 38
sgyyyyyytm rrrrcs 16

<210> 39
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (If)

<400> 39
ggcyctttc agrgcc 16

<210> 40
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (If)

<400> 40
ggccctttc agggcc 16

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

<220>
<223> histon stem loop sequence according to formula (Ig)

<400> 41
ggyycttyth agrrcc 16

<210> 42
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ig)

<400> 42
ggcycttytm agrgcc 16

<210> 43
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ig)

<400> 43
ggctcttttm agrgcc 16

<210> 44
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ig)

<400> 44
rgyyyykytm asrrcb 16

<210> 45
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ig)

<400> 45
ggctcttttm agagcc 16

<210> 46
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ig)

<400> 46
ggctcttttc agagcc 16

<210> 47
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ih)

<400> 47
kgcyctryth agrrcc 16

<210> 48
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ih)

<400> 48
ggcyctttth agrgcc 16

<210> 49
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ih)

<400> 49
ggcyctttth agrgcc 16

<210> 50
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ih)

<400> 50
kghyctkytm asrrcc 16

<210> 51
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ih)

<400> 51
ggcyctttm agrgcc 16

<210> 52
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (Ih)

<400> 52
ggctcttttc agagcc 16

<210> 53
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIc)

<220>
<221> variation
<222> (26)..(26)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (26)..(26)
<223> n is a, c, g, t or u

<400> 53
hhhhhvgyyy yhhthrvvrc bvhhhn 26

<210> 54
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIc)

<400> 54
hhmmmrgyyy ttttmagrrc sachhh 26

<210> 55
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIc)

<400> 55
hmmhmrgyyy ttttmagrrc sachhh 26

<210> 56
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIc)

<400> 56
mmmmmrgyyy yyytmrrrrc smymmw 26

<210> 57
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIc)

<400> 57
mmammggcyc ttttcagrgc cacmmw 26

<210> 58
<211> 26

<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIc)

<400> 58
acaacggccc ttttcagggc caccaa 26

<210> 59
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIe)

<220>
<221> variation
<222> (1)..(5)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (1)..(5)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (8)..(10)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (8)..(10)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (12)..(13)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (12)..(13)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (17)..(19)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (17)..(19)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (22)..(22)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (22)..(22)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (24)..(26)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (24)..(26)
<223> n is a, c, g, t or u

<400> 59
nnnnndgnnn bnnthvnnnc hnhnnn 26

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

<220>
<223> histon stem loop sequence according to formula (IIe)

<220>
<221> variation
<222> (1)..(2)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (1)..(2)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (8)..(10)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (8)..(10)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (18)..(19)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (18)..(19)
<223> n is a, c, g, t or u

<400> 60
nnhhhrgnnn yhbthrdnnc ydhhhh 26

<210> 61
<211> 26
<212> DNA

<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIe)

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

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (8)..(8)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (19)..(19)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (19)..(19)
<223> n is a, c, g, t or u

<400> 61
nhhhhrgndb yhythrdhnc yrhhhh 26

<210> 62
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIe)

<400> 62
mhwmmrgyky ywytwrrmrc yrymmm 26

<210> 63
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIe)

<400> 63
mhwamggcty twytwarmgc cacmmm 26

<210> 64
<211> 26

<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIe)

<400> 64
acaaaggctt ttttaagagc caccaa 26

<210> 65
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIf)

<220>
<221> variation
<222> (26)..(26)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (26)..(26)
<223> n is a, c, g, t or u

<400> 65
hhhhmvgyyy tyhthryrrc bvmhhn 26

<210> 66
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIf)

<400> 66
mmmmmsgyyc ttytmagrrc smchhh 26

<210> 67
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIf)

<400> 67
mmmmmsgyyc ttttmagrrc sachmh 26

<210> 68
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIf)

<400> 68
mmmmmsgyyy yyytmrrrrc smmmmw 26

<210> 69
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIf)

<400> 69
mmmmmggcyc ttttcagrgc cacmmw 26

<210> 70
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIf)

<400> 70
acaacggccc ttttcagggc caccaa 26

<210> 71
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIg)

<220>
<221> variation
<222> (24)..(25)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (24)..(25)
<223> n is a, c, g, t or u

<400> 71
hhvamggyyc ttythagrrc cvhnnm 26

<210> 72
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIg)

<400> 72
hhaamggcyc ttytmagrgc cvchhm 26

<210> 73
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIg)

<400> 73
mhaamggctc ttttmagrgc cmcymm 26

<210> 74
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIg)

<400> 74
mmmmmrgyyy ykytmasrrc bmmymm 26

<210> 75
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIg)

<400> 75
mcaamggctc ttttmagagc caccmm 26

<210> 76
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIg)

<400> 76
acaaaggctc ttttcagagc caccca 26

<210> 77
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIh)

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

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, t or u

<220>
<221> variation
<222> (25)..(25)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (25)..(25)

<223> n is a, c, g, t or u

<400> 77
nhaahkgcyc trythagrrc cvhbnh 26

<210> 78
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIh)

<220>
<221> variation
<222> (25)..(25)
<223> /replace="guanine" /replace="adenine" /replace="thymine"
/replace="uracile" /replace="cytosine" /replace=""

<220>
<221> misc_feature
<222> (25)..(25)
<223> n is a, c, g, t or u

<400> 78
hhaamggcyc tttthagrgc cvmynm 26

<210> 79
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIh)

<400> 79
hmaaaggcyc tttthagrgc crmyhm 26

<210> 80
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIh)

<400> 80
mmaamkghyc tkytmasrrc crmyym 26

<210> 81
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIh)

<400> 81
mmaamggcyc ttttmagrgc crmyym 26

<210> 82
<211> 26
<212> DNA

<213> Artificial Sequence

<220>
<223> histon stem loop sequence according to formula (IIh)

<400> 82
ccaaaggctc ttttcagagc caccca 26

<210> 83
<211> 1747
<212> DNA
<213> Artificial Sequence

<220>
<223> ppLuc(GC) - ag

<400> 83
gggagaaagc uugaggaugg aggacgccaa gaacaucaag aagggcccgg cgcccuucua 60

cccgcuggag gacgggaccg ccggcgagca gcuccacaag gccaugaagc gguacgcccu 120

ggugccgggc acgaucgccu ucaccgacgc ccacaucgag gucgacauca ccuacgcgga 180

guacuucgag augagcgugc gccuggccga ggccaugaag cgguacggcc ugaacaccaa 240

ccaccggauc guggugugcu cggagaacag ccugcaguuc uucaugccgg ugcugggcgc 300

cgugguguuc guggacgagg ucccgaaggg ccugaccggg aagcucgacg cccggaagau 1620

ccgcgagauc cugaucaagg ccaagaaggg cggcaagauc gccguguaag acuaguuaua 1680

agacugacua gcccgauggg ccucccaacg ggcccuccuc cccuccuugc accgagauua 1740

auagauc 1747

<210> 84
<211> 1806
<212> DNA
<213> Artificial Sequence

<220>
<223> ppLuc(GC) - ag - A64

<400> 84
gggagaaagc uugaggaugg aggacgccaa gaacaucaag aagggcccgg cgcccuucua 60

cccgcuggag gacgggaccg ccggcgagca gcuccacaag gccaugaagc gguacgcccu 120

ggugccgggc acgaucgccu ucaccgacgc ccacaucgag gucgacauca ccuacgcgga 180

guacuucgag augagcgugc gccuggccga ggccaugaag cgguacggcc ugaacaccaa 240

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

aaaaaa 1806

<210> 85
<211> 1772
<212> DNA
<213> Artificial Sequence

<220>
<223> ppLuc(GC) - ag - histoneSL

<400> 85
gggagaaagc uugaggaugg aggacgccaa gaacaucaag aagggcccgg cgcccuucua 60

cccgcuggag gacgggaccg ccggcgagca gcuccacaag gccaugaagc gguacgcccu 120

ggugccgggc acgaucgccu ucaccgacgc ccacaucgag gucgacauca ccuacgcgga 180

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

auagaucuca aaggcucuuu ucagagccac ca 1772

<210> 86
<211> 1835
<212> DNA
<213> Artificial Sequence

<220>
<223> ppLuc(GC) - ag - A64 - histoneSL

<400> 86
gggagaaagc uugaggaugg aggacgccaa gaacaucaag aagggcccgg cgcccuucua 60

cccgcuggag gacgggaccg ccggcgagca gcuccacaag gccaugaagc gguacgcccu 120

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

aaaaaaugca ucaaaggcuc uuuucagagc cacca 1835

<210> 87
<211> 1869
<212> DNA
<213> Artificial Sequence

<220>
<223> ppLuc(GC) - ag - A120

<400> 87
gggagaaagc uugaggaugg aggacgccaa gaacaucaag aagggcccgg cgcccuucua 60

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

auagaucuaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1800

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1860

aaaaaaaaa 1869

<210> 88
<211> 1858
<212> DNA
<213> Artificial Sequence

ccuggacacc ggcaagaccc ugggcgugaa ccagcggggc gagcugugcg ugcgggggcc 1200
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
aaaaaaugca uccugcccga ugggccuccc aacgggcccu ccuccccucc uugcaccg 1858

<210> 89

ggacgacaag ccgggcgccg ugggcaaggu ggucccguuc uucgaggcca agguggugga 1140
ccuggacacc ggcaagaccc ugggcgugaa ccagcggggc gagcugugcg ugcgggggcc 1200
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
aaaaaaugca ucaauuccua cacgugaggc gcugugauuc ccuauccccc uucauucccu 1860

cgccaagagc acccugaucg acaaguacga ccugucgaac cugcacgaga ucgccagcgg 960

gggcgccccg cugagcaagg aggugggcga ggccguggcc aagcgguucc accucccggg 1020

cauccgccag ggcuacggcc ugaccgagac cacgagcgcg auccugauca cccccgaggg 1080

ggacgacaag ccgggcgccg ugggcaaggu ggucccguuc uucgaggcca agguggugga 1140

ccuggacacc ggcaagaccc ugggcgugaa ccagcggggc gagcugugcg ugcgggggcc 1200

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

agacugagua gccgcauggg cguccgaacg ggccguccuc gccuccuuuc ucccgagauu 1740

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
cauccgccag ggcuacggcc ugaccgagac cacgagcgcg auccugauca cccccgaggg 1080
ggacgacaag ccgggcgccg ugggcaaggu ggucccguuc uucgaggcca agguggugga 1140
ccuggacacc ggcaagaccc ugggcgugaa ccagcggggc gagcugugcg ugcgggggcc 1200
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

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
cauccgccag ggcuacggcc ugaccgagac cacgagcgcg auccugauca cccccgaggg 1080
ggacgacaag ccgggcgccg ugggcaaggu ggucccguuc uucgaggcca agguggugga 1140
ccuggacacc ggcaagaccc ugggcgugaa ccagcggggc gagcugugcg ugcgggggcc 1200
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

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 agguggggcga ggccguggcc aagcgguucc accucccggg 1020
cauccgccag ggcuacggcc ugaccgagac cacgagcgcg auccugauca cccccgaggg 1080
ggacgacaag ccgggcgccg ugggcaaggu ggucccguuc uucgaggcca agguggugga 1140
ccuggacacc ggcaagaccc ugggcgugaa ccagcggggc gagcugugcg ugcgggggcc 1200
gaugaucaug agcggcuacg ugaacaaccc ggaggccacc aacgcccuca ucgacaagga 1260
cggcuggcug cacagcggcg acaucgccua cugggacgag gacgagcacu ucuucaucgu 1320
cgaccggcug aagucgcuga ucaaguacaa gggcuaccag guggcgccgg ccgagcugga 1380

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
cauccgccag ggcuacggcc ugaccgagac cacgagcgcg auccugauca cccccgaggg 1080
ggacgacaag ccgggcgccg ugggcaaggu ggucccguuc uucgaggcca agguggugga 1140
ccuggacacc ggcaagaccc ugggcgugaa ccagcggggc gagcugugcg ugcgggggcc 1200
gaugaucaug agcggcuacg ugaacaaccc ggaggccacc aacgcccuca ucgacaagga 1260

<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> 95
nccancccnn ucncc 15