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 <151> 2012-01-31  
  
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 <220>  
 <223> nucleic acid molecule according to formula (IV) (NuGlXmGnNv)a  
  
 <400> 88  
 gggagaaagc ucaagcuugg agcaaugccc gcacauugag gaaaccgagu ugcauauuc 60  
 agaguauugg cccccgugua gguuuuuuuu 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 uccucuuaa cugcagcgua agugcggaau cugggggauca 360  
 aauuacugac ugccuggauu acccucggac auauaaccuu guagcacgcu guugcuguau 420  
 aggugaccaa cggccacucg aguagaccag cucucuuaa cgggacaau auaggaggcg 480  
 cggucaauu acuucuggcu aguuuagaau aggcugcacc gaccucuua aguagcgugu 540  
 ccucuag 547

<210> 89  
 <211> 1083  
 <212> RNA  
 <213> artificial



<220>  
 <223> nucleic acid molecule according to formula (IV) (NuG<sup>1</sup>XmGnNv)a

<400> 89  
 gggagaaagc ucaagcuugg agcaaugccc gcacauugag gaaaccgagu ugcauauucuc 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  
 gcuuauuac gaacggcucc uccucuuga cugcagcgua agugcggaau cuggggauca 360  
 aauuacugac ugccuggauu acccucggac auauaacuu guagcacgcu guugcuguau 420  
 aggugaccaa cgcccacucg aguagaccag cucucuugu ccggacaaug auaggaggcg 480  
 cggucaauuc acuucuggcu aguuaagaau aggcugcacc gaccucuaua aguagcgugu 540  
 ccucuagagc uacgcagguu cgcauaaaaa gcguugauua gugugcauag aacagaccuc 600  
 uuauucggug aaacgccaga augcuaaaa ccauaaacuc uucccaaaac gcguacggcc 660  
 gaagacgcgc gcuuauucug uguacguucu cgcaaugga agaauacagcg ggcauggugg 720  
 uagggcaua ggggagcugg guagcagcga aaaagggccc cugcgcacgu agcuucgucg 780  
 uucgucugaa acaaccggc auccguugua gcgaucggcu uaucaguguu auucuugucg 840  
 gcacuaagau ucauggugua gucgacaaua acagcgucuu ggcagauucu ggucacgugc 900  
 ccuaugcccg ggcuuugucc ucucaggugc acagcgauac uuaaagccuu caagguacuc 960  
 gacgugggua ccgauucgug acacuuccua agauuuuucc acuguguuag ccccgaccg 1020  
 ccgaccuaaa cugguccaau guauacgau ucgcugagcg gaucgauauu aaaagcuuga 1080  
 auu 1083

<210> 90  
 <211> 229  
 <212> RNA  
 <213> artificial

<220>  
 <223> nucleic acid molecule according to formula (IV) (NuG<sup>1</sup>XmGnNv)a

<400> 90  
 gggagaaagc ucaagcuuau ccaaguaggc uggucaccug uacaacguag ccgguauuuu 60  
 uuuuuuuuuu uuuuuuuuga ccgucuaag guccaaguua gucugccuau aaaggugcgg 120  
 auccacagcu gaugaaagac uugugcgguu cgguuauuc cccuuuuuuu uuuuuuuuuu 180  
 uuuuuuagaa augcgucua ugaauccagc gaugaugcug gccagauc 229

<210> 91  
 <211> 546  
 <212> RNA  
 <213> artificial

<220>  
 <223> nucleic acid molecule according to formula (IV) (NuG<sup>1</sup>XmGnNv)a

<400> 91  
 gggagaaagc ucaagcuuau ccaaguaggc uggucaccug uacaacguag ccgguauuuu 60  
 uuuuuuuuuu uuuuuuuuga ccgucucaag guccaaguua gucugccuau aaaggugcgg 120  
 auccacagcu gaugaaagac uugugcggua cgguuaaucu cccuuuuuuu uuuuuuuuuu 180  
 uuuuuaguua augcgucuac ugaauccagc gaugaugcug gcccagaucu ucgaccacaa 240  
 gugcauauag uagucaucga gggucgccuu uuuuuuuuuu uuuuuuuuuu uggcccaguu 300  
 cugagacuuc gcuagagacu acaguuacag cugcaguagu aaccacugcg gcuauugcag 360  
 gaaaucccg uacagguuuu uuuuuuuuuu uuuuuuccgc ucacuaugau uaagaaccag 420  
 guggaguguc acugcucucg agguccacag agagcgcucg auacaguccu uggaagaau 480  
 uuuuuuuuuu uuuuuuuuuu uugugcgacg aucacagaga acuuuauuc augcaggucu 540  
 gcucua 546

<210> 92  
 <211> 1083  
 <212> RNA  
 <213> artificial

<220>  
 <223> nucleic acid molecule according to formula (IV) (NuGIXmGnNv)a

<400> 92  
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 uuuuuuuuuu uuuuuuuuga ccgucucaag guccaaguua gucugccuau aaaggugcgg 120  
 auccacagcu gaugaaagac uugugcggua cgguuaaucu cccuuuuuuu uuuuuuuuuu 180  
 uuuuuaguua augcgucuac ugaauccagc gaugaugcug gcccagaucu ucgaccacaa 240  
 gugcauauag uagucaucga gggucgccuu uuuuuuuuuu uuuuuuuuuu uggcccaguu 300  
 cugagacuuc gcuagagacu acaguuacag cugcaguagu aaccacugcg gcuauugcag 360  
 gaaaucccg uacagguuuu uuuuuuuuuu uuuuuuccgc ucacuaugau uaagaaccag 420  
 guggaguguc acugcucucg agguccacag agagcgcucg auacaguccu uggaagaau 480  
 uuuuuuuuuu uuuuuuuuuu uugugcgacg aucacagaga acuuuauuc augcaggucu 540  
 gcucuagaac gaacugaccu gacgccugaa cuuauagcug ugcguauuuu uuuuuuuuuu 600  
 uuuuuuuuuc cuccaacaa augucgauca auagcugggc uguuggagac gcgucagcaa 660  
 augccguggc uccauaggac gugugagacu cuuuuuuuuu uuuuuuuuuu uuucccg 720  
 accacaaaua auauucuugc uugguugggc gcaagggccc cguaucaggu cauaaacggg 780  
 uacauguugc acaggcuccu uuuuuuuuuu uuuuuuuuuu uucgcugagu uauuccgguc 840  
 ucaaaagacg gcagacguca gucgacaaca cggucaaaag cagugcuaca aucugccgug 900  
 uucguguuuu uuuuuuuuuu uuuuuuguga accuacacgg cgugcacugu aguucgcaau 960  
 ucauagggua ccggcucaga guuaugccuu gguugaaaac ugcccagcau acuuuuuuuu 1020  
 uuuuuuuuuu uucauuuucc caugcuagc aagggaugcc gcgagucaug uuaagcuuga 1080  
 auu 1083

<210> 93  
<211> 59  
<212> RNA  
<213> artificial

<220>  
<223> nucleic acid molecule according to formula (V) (NuClXmCnNv)a

<400> 93  
uagcgaagcu cuuggaccua ccuuuuuuuu uuuuuuuccu gcguuccuag aaguacacg 59

<210> 94  
<211> 120  
<212> RNA  
<213> artificial

<220>  
<223> nucleic acid molecule according to formula (V) (NuClXmCnNv)a

<400> 94  
uagcgaagcu cuuggaccua ccuuuuuuuu uuuuuuucc ugcuuccua gaaguacacg 60  
aucgcuucga gaaccuggau ggaaaaaaaa aaaaaaaggg acgcaaggau cuucaugugc 120

<210> 95  
<211> 7  
<212> PRT  
<213> artificial

<220>  
<223> cationic peptide according to sum formula (I)  
{(Arg)l;(Lys)m;(His)n;(Orn)o;(Xaa)x}

<400> 95

Arg Arg Arg Arg Arg Arg Arg  
1 5

<210> 96  
<211> 9  
<212> PRT  
<213> artificial

<220>  
<223> cationic peptide according to sum formula (I)  
{(Arg)l;(Lys)m;(His)n;(Orn)o;(Xaa)x}

<400> 96

Arg Arg Arg Arg Arg Arg Arg Arg Arg  
1 5

<210> 97  
<211> 12  
<212> PRT  
<213> artificial

<220>  
<223> cationic peptide according to sum formula (I)  
{(Arg)l;(Lys)m;(His)n;(Orn)o;(Xaa)x}

<400> 97

Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg  
page 19

10

**<400> 98**

gcucuag

547

<210> 102  
<211> 20  
<212> DNA  
<213> artificial

<220>  
<223> CpG-DNA

<400> 102  
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20

<210> 103  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> chicken OVA 257-264 peptide

<400> 103

Ser Ile Ile Asn Phe Glu Lys Leu  
1 5

<210> 104  
<211> 14  
<212> PRT  
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<220>  
<223> chicken OVA 323-336 peptide

<400> 104

Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu  
1 5 10

<210> 105  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> mouse mastozytoma P815-derived peptide P1A

<400> 105

Leu Pro Tyr Leu Gly Trp Leu Val Phe  
1 5

<210> 106  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CSP-peptide

<400> 106

Ser Tyr Val Pro Ser Ala Glu Gln Ile

1

5

<210> 107  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> LLO-peptide

<400> 107

Gly Tyr Lys Asp Gly Asn Glu Tyr Ile  
1 5

<210> 108  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> MC1R-peptide

<400> 108

Trp Gly Pro Phe Phe Leu His Leu  
1 5