

P19EM003PCT(Sequence Listing)
SEQUENCE LISTING

<110> University Corporation Saitama University

<120> Liposome binding peptide, libosome with thereof, and construct
for riposome therefor

<130> P19EM0XXPCT

<150> JP2018-210873

<151> 2018-11-08

<160> 12

<170> PatentIn version 3.5

<210> 1

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Block A, which is asfragment of a peptide incateract with Liposorm

<220>

<221> PEPTIDE

<222> (1)..(10)

<400> 1

Pro Asp Ala Arg Pro Ile Val Arg Ser Pro Leu

1 5 10

<210> 2

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Block B, which is a fragment of liposome interaction peptide

<220>

<221> PEPTIDE

<222> (1)..(10)

<400> 2

Leu Pro Ser Arg Val Ile Pro Arg Ala Asp Pro

1 5 10

<210> 3

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Block D, which is a fragment of liposome interaction peptide

P19EM003PCT(Sequence Listing)

<220>
<221> PEPTIDE
<222> (1)..(8)

<400> 3

Arg Xaa Arg Arg Arg Arg Xaa Arg
1 5

<210> 4
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Block Cr, which is a fragment of liposome interaction peptide
having Ra rverse sequence of Block C

<220>
<221> PEPTIDE
<222> (1)..(4)

<400> 4

Thr Lys Thr Arg
1

<210> 5
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> Block C, which is a fragment of liposome interaction peptide

<220>
<221> PEPTIDE
<222> (1)..(4)

<400> 5

Arg Thr Lys Thr
1

<210> 6
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Block A, which is a fragment of liposome interaction peptide

<220>

P19EM003PCT(Sequence Listing)

<221> PEPTIDE

<222> (1)..(5)

<400> 6

Arg His Ser Lys Ser
1 5

<210> 7

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Block Ar, which is a fragment of liposome interaction peptide
having a reverse sequence of Block A

<220>

<221> PEPTIDE

<222> (1)..(5)

<400> 7

Ser Lys Ser His Arg
1 5

<210> 8

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide pass through libid double layer by using C-terminal

<220>

<221> PEPTIDE

<222> (1)..(30)

<223> LBPr1

<400> 8

Leu Thr Arg Lys Arg Arg Arg Arg Arg Arg Thr Lys Thr Arg Pro Asp
1 5 10 15

Ala Arg Pro Ile Val Arg Ser Pro Leu Ser Lys Ser His Arg
20 25 30

<210> 9

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide binds to a liposome at C-terminal

P19EM003PCT(Sequence Listing)

<220>
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 <222> (1)..(30)
 <223> LBPr2

<400> 9

Arg His Ser Lys Ser Arg Arg Arg Arg Arg Arg Lys Arg Arg Thr Lys
 1 5 10 15

Thr Leu Pro Ser Arg Val Ile Pro Arg Ala Asp Pro Thr Leu
 20 25 30

<210> 10
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide binds to a liposome C-terminal

<220>
 <221> PEPTIDE
 <222> (1)..(30)
 <223> LBPr3

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Thr Leu Arg Arg Arg Arg Arg Arg Lys Arg Arg Thr Lys Thr Leu Pro
 1 5 10 15

Ser Arg Val Ile Pro Arg Ala Asp Pro Arg His Ser Lys Ser
 20 25 30

<210> 11
 <211> 30
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide binds to a liposome at N-terminal

<220>
 <221> PEPTIDE
 <222> (1)..(30)
 <223> LBP1

<400> 11

Arg His Ser Lys Ser Leu Pro Ser Arg Val Ile Pro Arg Ala Asp Pro
 1 5 10 15

Arg Thr Lys Thr Arg Arg Arg Arg Arg Lys Arg Thr Leu

20

25

30

<210> 12

<211> 43

<212> DNA

<213> Artificial Sequence

<220>

<223> Linker for obtaining the peptide defined as Seruqnce Nos. 8 to 10

<220>

<221> misc_binding

<222> (1)..(43)

<223> Backbone of cnvK linker, Y shows AminoC6-dT, N shows cyanoviny
carbasol

<220>

<221> misc_binding

<222> (1)..(43)

<223> Backbone of cnvK linker, N shows riboG, K shows cyanoviny
carbasol

<220>

<221> misc_feature

<222> (21)..(21)

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

<400> 12

aaaaaaaaaa aaaaaaaaaa ntttcakgc cgccccccgt cct

43