SEQUENCE LISTING

<110> Glytech Inc.

<120> Glycoprotein production method and screening method

<130> SG2187A

<150> JP 2008-211144
<151> 2008-08-19

<150> JP 2009-029206
<151> 2009-06-08

<160> 16

<170> PatentIn version 3.1

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<212> PRT
<213> silver pheasant

<220>
<223> amino acid sequence having blocking groups (fragment 1)

<220>
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<222> (1)..(1)
<223> Leu having blocking group Boc

<220>
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<222> (5)..(5)
<223> Ser having blocking group tBu

<220>
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<223> Asp having blocking group OtBu

<220>
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<222> (8)..(8)
<223> Cys having blocking group Trt

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<223> Ser having blocking group tBu

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<223> Glu having blocking group OtBu

<220>
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<222> (11)..(11)
<223> Tyr having blocking group tBu

<220>
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<223> Lys having blocking group Boc

<220>
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<222> (16)..(16)
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<223> Thr having blocking group tBu

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<223> Glu having blocking group OtBu

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<222> (20)..(20)
<223> Tyr having blocking group tBu

<220>
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<222> (21)..(21)
<223> Arg having blocking group Pbf

<400> 1

Leu Ala Ala Val Ser Val Asp Cys Ser Glu Tyr Pro Lys Pro Ala Cys
1 5 10 15

Thr Met Glu Tyr Arg Pro Leu
20

<210> 2
<211> 23
<212> PRT
<213> silver pheasant

<220>
<223> amino acid sequence having benzyl thioester group (fragment 1)

<220>
<221> MOD_RES
<222> (23)..(23)
<223> Leu having benzyl thioester group

<400> 2

Leu Ala Ala Val Ser Val Asp Cys Ser Glu Tyr Pro Lys Pro Ala Cys
1 5 10 15

Thr Met Glu Tyr Arg Pro Leu
20

<210> 3
<211> 9
<212> PRT
<213> silver pheasant

<220>
<223> amino acid sequence having blocking groups (fragment 2)

<220>
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<222> (1)..(1)
<223> Lys having blocking groups Fmoc and Boc

<220>
<221> MOD_RES
<222> (2)..(2)

<223> Thr having blocking group tBu

<220>
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<222> (3)..(3)
<223> Tyr having blocking group tBu

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Lys having blocking group Boc

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Cys having blocking group Trt

<400> 3

Lys Thr Tyr Gly Asn Lys Cys Asn Phe
1 5

<210> 4
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<212> PRT
<213> silver pheasant

<220>
<223> glycosylated amino acid sequence having blocking groups (fragment 2)

<220>
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<222> (1)..(1)
<223> Cys having blocking groups Boc and Thz

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Ser having blocking group tBu

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Asp having blocking group OtBu

<220>
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<222> (5)..(5)
<223> Glycosylated Asn

<220>
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<223> Lys having blocking group Boc

<220>
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<223> Tyr having blocking group tBu

<220>
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<222> (11)..(11)
<223> Lys having blocking group Boc

<220>
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<222> (12)..(12)
<223> Cys having blocking group Trt

<400> 4

Cys Gly Ser Asp Asn Lys Thr Tyr Gly Asn Lys Cys Asn Phe
1 5 10

<210> 5
<211> 14
<212> PRT
<213> silver pheasant

<220>
<223> glycosylated amino acid sequence having benzyl thioester group and blocking group (fragment 2)

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Cys having blocking group Thz

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Glycosylated Asn

<220>
<221> MOD_RES
<222> (14)..(14)
<223> Phe having benzyl thioester group

<400> 5

Cys Gly Ser Asp Asn Lys Thr Tyr Gly Asn Lys Cys Asn Phe
1 5 10

<210> 6
<211> 19
<212> PRT
<213> silver pheasant

<220>
<223> amino acid sequence having blocking groups (fragment 3)

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Cys having blocking group Trt

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Glu having blocking group OtBu

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Ser having blocking group tBu

<220>
<221> MOD_RES
<222> (10)..(10)

<223> Thr having blocking group tBu

<220>
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<222> (12)..(12)
<223> Thr having blocking group tBu

<220>
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<222> (14)..(14)
<223> Ser having blocking group tBu

<220>
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<222> (15)..(15)
<223> His having blocking group Trt

<220>
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<222> (18)..(18)
<223> Lys having blocking group Boc

<220>
<221> MOD_RES
<222> (19)..(19)
<223> Cys having blocking group Trt

<400> 6

Cys Asn Ala Val Val Glu Ser Asn Gly Thr Leu Thr Leu Ser His Phe
1 5 10 15

Gly Lys Cys

<210> 7
<211> 19
<212> PRT
<213> silver pheasant

<220>
<223> amino acid sequence (fragment 3)

<400> 7

Cys Asn Ala Val Val Glu Ser Asn Gly Thr Leu Thr Leu Ser His Phe
1 5 10 15

Gly Lys Cys

<210> 8
<211> 33
<212> PRT
<213> silver pheasant

<220>
<223> glycosylated amino acid sequence having blocking group

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Cys having blocking group Thz

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Glycosylated Asn

<400> 8

Cys Gly Ser Asp Asn Lys Thr Tyr Gly Asn Lys Cys Asn Phe Cys Asn
1 5 10 15

Ala Val Val Glu Ser Asn Gly Thr Leu Thr Leu Ser His Phe Gly Lys
20 25 30

Cys

<210> 9
<211> 33
<212> PRT
<213> silver pheasant

<220>
<223> glycosylated amino acid sequence

<220>
<221> MOD_RES
<222> (5)..(5)
<223> Glycosylated Asn

<400> 9

Cys Gly Ser Asp Asn Lys Thr Tyr Gly Asn Lys Cys Asn Phe Cys Asn
1 5 10 15

Ala Val Val Glu Ser Asn Gly Thr Leu Thr Leu Ser His Phe Gly Lys
20 25 30

Cys

<210> 10
<211> 56
<212> PRT
<213> silver pheasant

<220>
<223> glycosylated amino acid sequence (glycosylated OMSVP3)

<220>
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<223> Glycosylated Asn

<400> 10

Leu Ala Ala Val Ser Val Asp Cys Ser Glu Tyr Pro Lys Pro Ala Cys
1 5 10 15

Thr Met Glu Tyr Arg Pro Leu Cys Gly Ser Asp Asn Lys Thr Tyr Gly
20 25 30

Asn Lys Cys Asn Phe Cys Asn Ala Val Val Glu Ser Asn Gly Thr Leu
35 40 45

Thr Leu Ser His Phe Gly Lys Cys
50 55

<210> 11
<211> 14
<212> PRT
<213> silver pheasant

<220>
<223> amino acid sequence having blocking groups (fragment 2')

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Cys having blocking groups Boc and Thz

<220>
<221> MOD_RES
<222> (3)..(3)
<223> Ser having blocking group tBu

<220>
<221> MOD_RES
<222> (4)..(4)
<223> Asp having blocking group OtBu

<220>
<221> MOD_RES
<222> (6)..(6)
<223> Lys having blocking group Boc

<220>
<221> MOD_RES
<222> (7)..(7)
<223> Thr having blocking group tBu

<220>
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<223> Tyr having blocking group tBu

<220>
<221> MOD_RES
<222> (11)..(11)
<223> Lys having blocking group Boc

<220>
<221> MOD_RES
<222> (12)..(12)
<223> Cys having blocking group Trt

<400> 11

Cys Gly Ser Asp Asn Lys Thr Tyr Gly Asn Lys Cys Asn Phe
1 5 10

<210> 12
<211> 14
<212> PRT
<213> silver pheasant

<220>
<223> amino acid sequence having benzyl thioester group and blocking group (fragment 2')

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Cys having blocking group Thz

<220>
<221> MOD_RES
<222> (14)..(14)
<223> Phe having benzyl thioester group

<400> 12

Cys Gly Ser Asp Asn Lys Thr Tyr Gly Asn Lys Cys Asn Phe
1 5 10

<210> 13
<211> 33
<212> PRT
<213> silver pheasant

<220>
<223> amino acid sequence having blocking group

<220>
<221> MOD_RES
<222> (1)..(1)
<223> Cys having blocking group Thz

<400> 13

Cys Gly Ser Asp Asn Lys Thr Tyr Gly Asn Lys Cys Asn Phe Cys Asn
1 5 10 15

Ala Val Val Glu Ser Asn Gly Thr Leu Thr Leu Ser His Phe Gly Lys
20 25 30

Cys

<210> 14
<211> 33
<212> PRT
<213> silver pheasant

<220>
<223> amino acid sequence

<400> 14

Cys Gly Ser Asp Asn Lys Thr Tyr Gly Asn Lys Cys Asn Phe Cys Asn
1 5 10 15

Ala Val Val Glu Ser Asn Gly Thr Leu Thr Leu Ser His Phe Gly Lys
20 25 30

Cys

<210> 15
<211> 56
<212> PRT
<213> silver pheasant

<220>
<223> amino acid sequence (non-glycosylated OMSVP3)

<400> 15

Leu Ala Ala Val Ser Val Asp Cys Ser Glu Tyr Pro Lys Pro Ala Cys
1 5 10 15

Thr Met Glu Tyr Arg Pro Leu Cys Gly Ser Asp Asn Lys Thr Tyr Gly
20 25 30

Asn Lys Cys Asn Phe Cys Asn Ala Val Val Glu Ser Asn Gly Thr Leu
35 40 45

Thr Leu Ser His Phe Gly Lys Cys
50 55

<210> 16
<211> 14
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<213> artificial sequence

<220>
<223> amino acid sequence having blocking group
(substrate for chymotrypsin)

<220>
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<222> (1)..(1)
<223> Cys having blocking group Thz

<400> 16

Cys Gly Ser Asp Asn Lys Thr Tyr Gly Asn Lys Cys Asn Phe
1 5 10