SEQUENCE LISTING

<110> KOLONIN ET AL.

<120> METHODS AND COMPOSITIONS FOR TARGETING ADIPOSE TISSUE IN MAMMALS

<130> 2105-08800

<210> 1

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 1

Cys Lys His Tyr Gly Gly Gly Val Ala Cys

1 5 10

WAT1 peptide (sequence CKHYGGGVAC: SEQ ID NO: 1)

<210> 2

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 2

Lys His Tyr Gly Gly Gly Val Ala

1 5 10

Non cysteine-cyclized WAT1 peptide (sequence KHYGGGVA: SEQ ID NO: 2)

<210> 3

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 3

Cys Tyr Lys Asn Val Asp Ser Gly Gly Cys

1 5 10

WAT2 peptide (sequence CYKNVDSGGC: SEQ ID NO: 3)

<210> 4

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 4

Tyr Lys Asn Val Asp Ser Gly Gly

1 5 10

Non cysteine-cyclized WAT2 peptide (sequence YKNVDSGG: SEQ ID NO: 4)

<210> 5

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 5

Cys Arg Phe Lys Lys Pro Gln Gly Cys

1 5 10

WAT3 peptide (sequence CRFLLPQGC: SEQ ID NO: 5)

<210> 6

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 6

Arg Phe Lys Lys Pro Gln Gly

1 5 10

Non cysteine-cyclized WAT3 peptide (sequence RFLLPQG: SEQ ID NO: 6)

<210> 7

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 7

Cys Tyr Glu Gly Ser Glu Val Ser Cys

1 5 10

WAT4 peptide (sequence CYEGSEVSC: SEQ ID NO: 7)

<210> 8

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 8

Tyr Glu Gly Ser Glu Val Ser

1 5 10

Non cysteine-cyclized WAT4 peptide (sequence YEGSEVS: SEQ ID NO: 8)

<210> 9

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 9

Cys Lys Arg Gln Gly Asn Pro Thr Cys

1 5 10

WAT5 peptide (sequence CLRQGNPTC: SEQ ID NO: 9)

<210> 10

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 10

Lys Arg Gln Gly Asn Pro Thr

1 5 10

Non cysteine-cyclized WAT5 peptide (sequence LRQGNPT: SEQ ID NO: 10)

<210> 11

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 11

Cys Gly Ser Gly Gly Met Ser Pro Ser Cys

1 5 10

WAT6 peptide (sequence CGSGGMSPSC: SEQ ID NO: 11)

<210> 12

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 12

Gly Ser Gly Gly Met Ser Pro Ser

1 5 10

Non cysteine-cyclized WAT6 peptide (sequence GSGGMSPS: SEQ ID NO: 12)

<210> 13

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 13

Cys Ser Trp Lys Tyr Trp Phe Gly Glu Cys

1 5 10

WAT-7 (sequence CSWKYWFGEC: SEQ ID NO: 13)

<210> 14

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 14

Ser Trp Lys Tyr Trp Phe Gly Glu

1 5 10

Non cysteine-cyclized WAT-7 (sequence SWKYWFGE: SEQ ID NO: 14)

<210> 15

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 15

Cys Gly Gln Trp Leu Gly Asn Trp Leu Cys

1 5 10

WAT8 peptide (CGQWLGNWLC: SEQ ID NO: 15)

<210> 16

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 16

Gly Gln Trp Leu Gly Asn Trp Leu

1 5 10

Non cysteine-cyclized WAT8 peptide (GQWLGNWL: SEQ ID NO: 16)

<210> 17

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 17

Cys Ala Val Tyr Arg Ser Thr Gly Cys

1 5 10

Peptide LU-1 (sequence CAVYRSTGC: SEQ ID NO: 17)

<210> 18

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 18

Ala Val Tyr Arg Ser Thr Gly

1 5 10

Non cysteine-cyclized Peptide LU-1 (sequence AVYRSTG: SEQ ID NO: 18)

<210> 19

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 19

Cys Glu Ser Gly Phe Pro Thr Val Gly Cys

1 5 10

Peptide LU-2 (sequence CESGFPTVGC: SEQ ID NO: 19)

<210> 20

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 20

Glu Ser Gly Phe Pro Thr Val Gly

1 5 10

Non cysteine-cyclized Peptide LU-2 (sequence ESGFPTVG: SEQ ID NO: 20)

<210> 21

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 21

Cys Lys Gly Val Gly Pro Gly Phe Cys

1 5 10

Peptide LU-3 (sequence CLGVGPGFC: SEQ ID NO: 21)

<210> 22

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 22

Lys Gly Val Gly Pro Gly Phe

1 5 10

Non cysteine-cyclized Peptide LU-3 (sequence LGVGPGF: SEQ ID NO: 22)

<210> 23

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 23

Cys Ile Arg Gly Lys Ala Gly Arg Cys

1 5 10

Peptide LU-4 (sequence CIRGKAGRC: SEQ ID NO: 23)

<210> 24

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 24

Ile Arg Gly Lys Ala Gly Arg

1 5 10

Non cysteine-cyclized Peptide LU-4 (sequence IRGKAGR: SEQ ID NO: 24)

<210> 25

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 25

Cys Lys Gly Gly Arg Ala Lys Asp Cys

1 5

CKGGRAKDC (SEQ ID NO: 25)

<210> 26

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 26

Lys Gly Gly Arg Ala Lys Asp

1 5

Non cysteine-cyclized KGGRAKD (SEQ ID NO: 26)

<210> 27

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 27

Cys Ala Arg Ala Cys

1 5

CARAC (SEQ ID NO: 27)

<210> 28

<211> 3

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 28

Ala Arg Ala

1 5

Non cysteine-cyclized ARA (SEQ ID NO: 28)

<210> 29

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 29

Cys Gly Asp Lys Ala Lys Gly Arg Cys

1 5 10

CGDKAKGRC (SEQ ID NO: 29)

<210> 30

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 30

Gly Asp Lys Ala Lys Gly Arg Cys

1 5 10

Non cysteine-cyclized GDKAKGRC (SEQ ID NO: 30)

<210> 31

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 31

Lys Leu Ala Lys Leu Ala Lys Lys Leu Ala Lys Leu Ala Lys

1 5 10

KLAKLAKKLAKLAK (SEQ ID NO: 31)

<210> 32

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 32

Lys Leu Ala Lys Lys Leu Ala Lys Leu Ala Lys Lys Leu Ala

1 5 10

$(KLAKKLA)_2$ (SEQ ID NO: 32)

<210> 33

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 33

Lys Ala Ala Lys Lys Ala Ala Lys Ala Ala Lys Lys Ala Ala

1 5 10

$(KAAKKAA)_2$ (SEQ ID NO: 33)

<210> 34

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 34

Lys Leu Gly Lys Lys Leu Gly Lys Leu Gly Lys Lys Leu Gly Lys Leu Gly Lys Lys Leu Gly

1 5 10 15
20

$(KLGKKLG)_3$ (SEQ ID NO: 34).

<210> 35

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 35

Cys Trp Leu Gly Glu Trp Leu Gly Cys

1 5

mPep CWLGEWLGC (SEQ ID NO:35)

<210> 36

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic Peptide

<400> 36

Trp Leu Gly Glu Trp Leu Gly

1 5

Non cysteine-cyclized mPep WLGEWLG (SEQ ID NO: 36)