SEQUENCE LISTING

<110> NOVARTIS AG
UNIVERSITY OF CHICAGO
KOIDE, Shohei
WOJCIK, John
KOIDE, Akiko
LOEW, Andreas
VASH, Brian Edward

<120> FIBRONECTIN CRADLE MOLECULES AND LIBRARIES THEREOF

<130> 636092109340

<140> Not Yet Assigned
<141> Concurrently Herewith

<150> US 61/369,160
<151> 2010-07-30

<150> US 61/369,203
<151> 2010-07-30

<150> US 61/369,222
<151> 2010-07-30

<150> US 61/474,632
<151> 2011-04-12

<150> US 61/474,648
<151> 2011-04-12

<160> 474

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 94
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III domain polypeptide

<400> 1
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr
20 25 30
Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Gly Arg Gly Asp
65 70 75 80
Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 2
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed epitope

<400> 2
Asp Tyr Lys Asp Asp Asp Asp Lys
 1   5

<210> 3
<211> 98
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<220>
<221> VARIANT
<222> (30), (33)
<223> Xaa = Asp, Phe, His, Ile, Leu, Asn, Val, or Tyr

<220>
<221> VARIANT
<222> (31)
<223> Xaa = Phe, His, Leu, or Tyr

<220>
<221> VARIANT
<222> (41)...(45), (76)...(85)
<223> Xaa = any amino acid except Cys

<220>
<221> VARIANT
<222> (46), (48), (50), (86)...(89)
<223> Xaa = any amino acid

<400> 3
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Xaa Xaa Tyr
            20   25   30
Xaa Ile Thr Tyr Gly Glu Thr Gly Xaa Xaa Xaa Xaa Xaa Xaa Gln Xaa
        35   40   45
Phe Xaa Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
    50   55   60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Xaa Xaa Xaa Xaa Xaa
65   70   75   80
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Pro Ile Ser Ile Asn Tyr
                85   90   95
Arg Thr

<210> 4
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 4
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
            20   25   30
Val Ile Thr Tyr Gly Glu Thr Gly Ser Tyr Ser Ser Tyr Gly Gln Glu
        35   40   45
Phe Ala Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser

50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Glu Phe Gln Phe
65 70 75 80
Glu Met Tyr Met Ser Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

<210> 5
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 5
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Val Tyr Gly Pro Gln Glu Phe
35 40 45
Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Phe Tyr Gln Gln Ala
65 70 75 80
Tyr Glu His Tyr Val Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

<210> 6
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 6
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Leu Phe Tyr
20 25 30
His Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Tyr Ser Asp Tyr Thr
65 70 75 80
Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 7
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 7
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr

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            20                  25                  30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35                  40                  45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50                  55                  60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Tyr Asp Tyr Ser Trp
65                  70                  75                  80
Gly Tyr Tyr Gly Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85                  90
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<210> 8
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 8

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Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1               5                  10                  15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
            20                  25                  30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35                  40                  45
Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50                  55                  60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Ile Tyr Ser Asp Ser
65                  70                  75                  80
Val Tyr Ser Ala Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85                  90
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<210> 9
<211> 96
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 9

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Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1               5                  10                  15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
            20                  25                  30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Tyr Ala Tyr Ser Ala Ser Gln
        35                  40                  45
Glu Phe Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu
    50                  55                  60
Ser Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Glu Ser Tyr
65                  70                  75                  80
Tyr Trp Gly Phe Ala Gly Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85                  90                  95
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<210> 10
<211> 96
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 10
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
            20   25   30
Val Ile Thr Tyr Gly Glu Thr Gly Val Phe Gly Ala Gly Pro Gln Glu
        35   40   45
Phe Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
    50   55   60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Glu Glu Trp Ser
65   70   75   80
Glu Ser Met Tyr Met Ser Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90   95

<210> 11
<211> 96
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 11
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
            20   25   30
His Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Trp Glu Ala Phe Ser
65   70   75   80
Gly Asp Leu Tyr Tyr Ser Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90   95

<210> 12
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 12
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
            20   25   30
Asn Ile Thr Tyr Gly Glu Thr Gly Ala Phe Trp His Tyr Val Gln Ala
        35   40   45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
    50   55   60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Glu Trp Asp Gln Tyr
65   70   75   80
Val Val Gly Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 13
<211> 97
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 13
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Gly Tyr Tyr Ser Phe Gln Ala
35 40 45
Phe Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Phe Trp Pro Asp Asp
65 70 75 80
Tyr Tyr Tyr Gly Gly Ser Glu Tyr Ser Pro Ile Ser Ile Asn Tyr Arg
85 90 95
Thr

<210> 14
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 14
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
20 25 30
His Ile Thr Tyr Gly Glu Thr Gly Gly Ser Trp Ser Gly Tyr Gln Glu
35 40 45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Asn Ser Ser Trp Tyr
65 70 75 80
Trp Tyr Asn Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 15
<211> 97
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 15
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Ala His Tyr Tyr Tyr Phe Gln Glu
35 40 45
Phe Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Ser His Gly Thr
65 70 75 80
Asp Gly Asn Lys Leu Tyr Phe Phe Ser Pro Ile Ser Ile Asn Tyr Arg
85 90 95
Thr

<210> 16
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<220>
<221> VARIANT
<222> (89)...(89)
<223> Xaa = any amino acid

<400> 16
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Trp Trp Tyr Gly Val Gln Ala
35 40 45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Glu Asp Ser Gly Gly
65 70 75 80
Arg His Ser Ile Ser Pro Ile Ser Xaa Asn Tyr Arg Thr
85 90

<210> 17
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 17
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Trp Tyr Ser Pro Pro Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Asn Trp Ser Ala Gly
65 70 75 80
Leu Gln Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 18
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 18
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15

Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Ser Trp Lys Tyr Trp
65 70 75 80
Tyr His Gly Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 19
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 19
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
20 25 30
Ile Ile Thr Tyr Gly Glu Thr Gly Gly Gly Tyr Tyr Ser Tyr Gln Thr
35 40 45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Asn Glu Phe Gly Lys
65 70 75 80
Ser Tyr Pro Tyr Thr Met Asn Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

<210> 20
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 20
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Leu Tyr Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Thr Asp Tyr Gly Pro Gly
65 70 75 80
Tyr Pro Tyr Glu Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 21
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 21
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Leu Tyr
            20   25   30
His Ile Thr Tyr Gly Glu Thr Gly Gly Val Trp Ser Gly Tyr Gln Glu
        35   40   45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
    50   55   60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Gln His Gln Glu
65   70   75   80
Ile Trp Pro Tyr Tyr Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90   95

<210> 22
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 22
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
            20   25   30
Phe Ile Thr Tyr Gly Glu Thr Gly Gly Ser Trp Ser Tyr Tyr Gln Glu
        35   40   45
Phe Ala Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
    50   55   60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Ser Tyr Glu Pro
65   70   75   80
Tyr Tyr Tyr Tyr Asn Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 23
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 23
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
            20   25   30
Val Ile Thr Tyr Gly Glu Thr Gly Ser Phe Ser Pro Pro Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Met Met Trp Gly Trp Glu
65   70   75   80
Tyr Tyr Asp Tyr Asn Ile Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90   95

<210> 24
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 24
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Leu Tyr
20 25 30
Ile Ile Thr Tyr Gly Glu Thr Gly Ser Tyr His Gly Trp Gln Thr Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Asp Ser Ser Thr Trp Pro
65 70 75 80
Tyr Trp Tyr Tyr Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 25
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 25
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Ser Phe Ser Pro Pro Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Met Met Trp Gly Trp Glu
65 70 75 80
Tyr Tyr Asp Tyr Asn Ile Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

<210> 26
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 26
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Val Trp Tyr Gly Tyr Gln Glu
35 40 45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Met Thr Ser Tyr Phe
65 70 75 80
Gln Glu Tyr Trp Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 27
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 27
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Ser Phe Ser Pro Pro Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Met Met Trp Gly Trp Glu
65 70 75 80
Tyr Tyr Asp Tyr Asn Ile Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

<210> 28
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 28
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Tyr Pro Ser Pro Val Gln Thr
35 40 45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Asp Tyr Asp Trp
65 70 75 80
Tyr Ala Ile Gly Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 29
<211> 96
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 29
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Val Tyr Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Tyr Thr Phe Gln Tyr
65 70 75 80

Asp Tyr Tyr Val Thr Gln Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

<210> 30
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 30
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
20 25 30
Phe Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Asp Asn Trp Asp Asp
65 70 75 80
Tyr Tyr Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 31
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 31
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Val Phe Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Ser Tyr Ser Gly Trp Gln Glu Phe
35 40 45
Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Tyr Tyr Gln Asn Pro
65 70 75 80
Glu Ser Tyr Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 32
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 32
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Leu Tyr
20 25 30
Phe Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45

Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Tyr Tyr Gly Tyr Tyr
65 70 75 80
Gly Pro Gln Tyr Thr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 33
<211> 96
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 33
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
20 25 30
Tyr Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Tyr Gln His Asp Phe
65 70 75 80
Asp Tyr His Val Trp Gly Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

<210> 34
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 34
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val His Tyr Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Trp Trp Gly Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Trp Lys Tyr Ser Tyr
65 70 75 80
Lys Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 35
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 35
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15

Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Ala Phe Gly Ser Gly Gln Glu Phe
35 40 45
Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Lys Trp Met Tyr Ser Tyr
65 70 75 80
Met Tyr Asn Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 36
<211> 96
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 36
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Val Tyr Tyr
20 25 30
Phe Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Ser Tyr Glu Leu Thr
65 70 75 80
Gly Asp Tyr Leu Gln Gln Phe Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

<210> 37
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 37
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Val Tyr Tyr
20 25 30
Asn Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Tyr Glu Tyr Gly Gly
65 70 75 80
Tyr Met Glu Ile Asp Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 38
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 38
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
            20   25   30
Val Ile Thr Tyr Gly Glu Thr Gly Val Pro Tyr Tyr Gly Trp Gln Glu
        35   40   45
Phe Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
    50   55   60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Pro Gly Ser Asn
65   70   75   80
Trp Phe Tyr Asp Trp Trp Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90   95

<210> 39
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 39
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
            20   25   30
Val Ile Thr Tyr Gly Glu Thr Gly Ser Tyr Gly Ser Tyr Pro Gln Ala
        35   40   45
Phe Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
    50   55   60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Thr Glu Ser Glu Gly Tyr
65   70   75   80
Ile Ser Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 40
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 40
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Tyr His Tyr Val Tyr
            20   25   30
Leu Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Lys Trp Lys Tyr Ser Tyr
65   70   75   80
Gln Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 41
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 41
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
20 25 30
Tyr Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Tyr Trp Asn Asp Tyr
65 70 75 80
Tyr Met Ser Ser Met Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 42
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 42
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Thr Tyr Gly Asp Ala Tyr
65 70 75 80
Trp His Tyr Tyr Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 43
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 43
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Val His Tyr
20 25 30
His Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Asp Trp Gln Tyr Ser Tyr
65 70 75 80
Met Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 44
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 44
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Asp Phe Tyr Val Tyr
20 25 30
Leu Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Gly Tyr Ser Asp Ser Trp Asn
65 70 75 80
Trp Pro Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 45
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 45
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Phe Ser Phe Gly Ser Ser Gln Thr
35 40 45
Phe Lys Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Phe Tyr Trp Ser Lys
65 70 75 80
Tyr Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 46
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 46
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Asp Leu Tyr Val Tyr
20 25 30
Leu Ile Thr Tyr Gly Glu Thr Gly Val Ala Ser Trp Gly Tyr Gln Glu
35 40 45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Gly Gly Asn Tyr
65 70 75 80

Trp Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 47
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 47
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val His Tyr Tyr Val Tyr
20 25 30
Leu Ile Thr Tyr Gly Glu Thr Gly Tyr Tyr Ser Tyr Gly Gln Glu Phe
35 40 45
Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Asn Gly Ser Gly Trp
65 70 75 80
Met Val Gln Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 48
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 48
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
20 25 30
Tyr Ile Thr Tyr Gly Glu Thr Gly Ala Tyr Trp Tyr Ser Gln Ala Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Ser Thr Lys Phe Asn Gln
65 70 75 80
Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 49
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 49
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
20 25 30
His Ile Thr Tyr Gly Glu Thr Gly His Tyr Trp Tyr Tyr Gln Ala Phe
35 40 45

Ala Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Ser Ser Ile Asp Tyr Met
65   70   75   80
Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 50
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 50
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
            20   25   30
Tyr Ile Thr Tyr Gly Glu Thr Gly Gly Tyr Trp Phe Pro Ser Thr Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Ser Met Ser Pro Ser Gly
65   70   75   80
Tyr Phe Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 51
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 51
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
            20   25   30
Phe Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Gly Glu Trp Asp Trp
65   70   75   80
Trp Ser Trp Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 52
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 52
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15

Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
            20   25   30
Phe Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr His Val Ser Phe Pro
65   70   75   80
Ser Asp Glu Glu Gly Met Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90   95

<210> 53
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 53
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Leu Tyr
            20   25   30
Tyr Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Ile Tyr Ala Phe Gly Ser Tyr His Tyr
65   70   75   80
Trp Glu His Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 54
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 54
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
            20   25   30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Gly Glu Tyr Lys Trp
65   70   75   80
Trp Ser Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 55
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 55
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Leu Tyr
            20   25   30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Gly Gly Tyr Glu Tyr
65   70   75   80
Trp Tyr Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 56
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 56
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
            20   25   30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Arg Gly Tyr Phe Lys Trp
65   70   75   80
Trp Glu Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 57
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 57
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
            20   25   30
Phe Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Gly Met Val Tyr Tyr Gly
65   70   75   80
Trp Glu Arg Glu Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 58
<211> 96
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 58
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Val His Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Leu Tyr Glu Gly Gly Gln
65 70 75 80
His Phe Gly Tyr Ser Phe Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

<210> 59
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 59
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Gly Ser Tyr Ser Tyr
65 70 75 80
Trp Met Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 60
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 60
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Gly Tyr Val Glu Trp Gln
65 70 75 80
Ser Ala Lys Asn Val His Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

<210> 61
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 61
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
20 25 30
Asn Ile Thr Tyr Gly Glu Thr Gly Gly Ser Trp Tyr Ala Tyr Gln Thr
35 40 45
Phe Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Ser Phe Ser Gly Asp
65 70 75 80
Met Tyr Tyr Tyr Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 62
<211> 96
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 62
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Gly Tyr Val Ala Phe Asp
65 70 75 80
Tyr Tyr Trp Arg Gly Gly Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

<210> 63
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 63
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val His Tyr Tyr
20 25 30
Tyr Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Ser Leu Trp Asp Trp Tyr
65 70 75 80

Ser Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 64
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 64
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
20 25 30
Phe Ile Thr Tyr Gly Glu Thr Gly Gly Tyr Phe Ser Ser Trp Gln Glu
35 40 45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Gly Tyr Ala Gly Ser
65 70 75 80
Phe Pro Ser Tyr Glu Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 65
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 65
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Leu Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Gly Asp Tyr Tyr Tyr
65 70 75 80
Trp Leu Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 66
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 66
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45

Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Gly Glu Phe Gly Trp
65 70 75 80
Trp Arg Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 67
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 67
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Leu Tyr
20 25 30
His Ile Thr Tyr Gly Glu Thr Gly Gly Pro Trp Trp Gly Tyr Gln Thr
35 40 45
Phe Ala Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Thr Ser Ser His His Pro
65 70 75 80
Gly Trp Trp Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 68
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 68
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Tyr Tyr Ala Tyr Ser Tyr Gln Thr
35 40 45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Ser Tyr Phe Asp
65 70 75 80
Gly Pro Val Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 69
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 69
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15

Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Leu Tyr
            20   25   30
His Ile Thr Tyr Gly Glu Thr Gly Gly Pro Trp Trp Gly Tyr Gln Thr
        35   40   45
Phe Ala Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
    50   55   60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Thr Ser Ser His His Pro
65   70   75   80
Gly Trp Trp Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 70
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 70
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
            20   25   30
His Ile Thr Tyr Gly Glu Thr Gly Ser Tyr Trp His Tyr Gln Ala Phe
        35   40   45
Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Gln Thr Arg Asn Arg Tyr
65   70   75   80
Met Glu Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 71
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 71
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Leu Tyr
            20   25   30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Gly Asp Phe Met Tyr
65   70   75   80
Trp Lys Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 72
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 72
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
            20   25   30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Gly Gly Tyr Ser Tyr
65   70   75   80
Trp Leu His Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 73
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 73
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
            20   25   30
His Ile Thr Tyr Gly Glu Thr Gly Ser His Tyr Trp Ser Tyr Gln Lys
        35   40   45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
    50   55   60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Ser Pro Glu Gly Arg
65   70   75   80
Gly Ser Tyr Tyr Gly Trp Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90   95

<210> 74
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 74
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
            20   25   30
Asn Ile Thr Tyr Gly Glu Thr Gly Val Trp Phe Pro Tyr Gln Thr Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Ser Met Val Asp Tyr Glu
65   70   75   80
Tyr Trp Trp Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 75
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 75
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Val His Tyr
20 25 30
Leu Ile Thr Tyr Gly Glu Thr Gly Gly Ala Gly Ser Ser Tyr Gln Thr
35 40 45
Phe Ala Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Met Ser Asn Tyr
65 70 75 80
Tyr Ser Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 76
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 76
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Leu Tyr
20 25 30
His Ile Thr Tyr Gly Glu Thr Gly Gly Ser Gly Trp Gly Tyr Gln Ala
35 40 45
Phe Ala Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
50 55 60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Ser Ser Asp Tyr Leu
65 70 75 80
Lys Tyr Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 77
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 77
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Asp Ile Gly Trp Phe
65 70 75 80
Pro Ala His Tyr Gly Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 78
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 78
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Val Phe Tyr
20 25 30
Leu Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Ser Thr Gly Gly Ser
65 70 75 80
Tyr Lys Ser Gln Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 79
<211> 96
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<220>
<221> VARIANT
<222> (30), (33)
<223> Xaa = Asp, Phe, His, Ile, Leu, Asn, Val, or Tyr

<220>
<221> VARIANT
<222> (31)...(31)
<223> Xaa = Phe, His, Leu, or Tyr

<220>
<221> VARIANT
<222> (47), (49)
<223> Xaa = Ala, Glu, Lys, or Thr

<220>
<221> VARIANT
<222> (75)...(85)
<223> Xaa = any amino acid except Cys

<220>
<221> VARIANT
<222> (86)...(89)
<223> Xaa = any amino acid

<400> 79
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Xaa Xaa Tyr
20 25 30
Xaa Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Xaa Phe
35 40 45
Xaa Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Xaa Xaa Xaa Xaa Xaa Xaa

65 70 75 80
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Pro Ile Ser Ile Asn Tyr Arg
85 90 95

<210> 80
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 80
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Val His Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Leu Leu Ser Ser Ser His
65 70 75 80
Trp Val Tyr Glu Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 81
<211> 96
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 81
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Leu Tyr
20 25 30
Leu Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Lys Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Gly Ser Asp Tyr Tyr Tyr
65 70 75 80
Tyr Tyr Gln Gly Ala Tyr Trp Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

<210> 82
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 82
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
20 25 30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe

        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Asn Trp Ala Tyr Ser Tyr
65   70   75   80
Arg Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 83
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 83
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Phe Tyr Tyr
            20   25   30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Asn Tyr Pro Tyr Ser Tyr
65   70   75   80
Met Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 84
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 84
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
            20   25   30
Leu Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Asp Pro Tyr Trp Asp
65   70   75   80
Val Met Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 85
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 85
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr

```
 1               5                  10                  15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Leu Tyr
            20                  25                  30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35                  40                  45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50                  55                  60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Gly Trp Gly Asn Trp Glu
65                  70                  75                  80
Leu Gly Tyr Ser Trp Ser Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85                  90                  95


<210> 86
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<220>
<221> VARIANT
<222> (31), (76)
<223> Xaa = Asp, His, Asn, or Tyr

<220>
<221> VARIANT
<222> (33)...(33)
<223> Xaa = Ala, Asp, Glu, Gly, His, Lys, Asn, Pro, Gln,
      Arg, Ser, or Thr

<220>
<221> VARIANT
<222> (73), (80), (82)
<223> Xaa = Ala, Asp, Phe, His, Ile, Leu, Asn, Pro, Ser,
      Thr, Val, or Tyr

<220>
<221> VARIANT
<222> (75), (83), (85)
<223> Xaa = Asp, Phe, His, Ile, Leu, Asn, Val, or Tyr

<220>
<221> VARIANT
<222> (78)...(78)
<223> Xaa = Ala, Asp, Glu, Gly, His, Ile, Lys, Leu,
      Met, Asn, Pro, Gln, Arg, Ser, Thr, Val or Tyr

<220>
<221> VARIANT
<222> (79)...(79)
<223> Xaa = Asp, Glu, His, Lys, Asn, Gln, or Tyr

<220>
<221> VARIANT
<222> (81)...(81)
<223> Xaa = Phe, Ile, Leu, or Val

<220>
<221> VARIANT
<222> (84)...(84)
<223> Xaa = Ala or Ser

<400> 86
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1               5                  10                  15
```

Ser Leu Leu Ile Ser Trp Asp Ala Ser Ser Ser Ser Val Ser Xaa Tyr
            20   25   30
Xaa Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Xaa Ala Xaa Xaa Ser Xaa Xaa Xaa
65   70   75   80
Xaa Xaa Xaa Xaa Xaa Ser Pro Ser Ser Ile Asn Tyr Arg Thr
                85   90

<210> 87
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 87
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Ser Ser Ser Ser Val Ser His Tyr
            20   25   30
His Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Phe Tyr Ser Asp Asp Asp
65   70   75   80
Leu Tyr Phe Ala Phe Ser Pro Ser Ser Ile Asn Tyr Arg Thr
                85   90

<210> 88
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 88
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Ser Ser Ser Ser Val Ser His Tyr
            20   25   30
Gly Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr His Ser Tyr Asp Asp
65   70   75   80
Ile Tyr Tyr Ala Leu Ser Pro Ser Ser Ile Asn Tyr Arg Thr
                85   90

<210> 89
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 89
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Ser Ser Ser Ser Val Ser His Tyr
            20   25   30
Ala Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr His Ser Tyr Asp Asp
65   70   75   80
Ile Phe Leu Ala Asp Ser Pro Ser Ser Ile Asn Tyr Arg Thr
                85   90

<210> 90
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 90
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Ser Ser Ser Ser Val Ser His Tyr
            20   25   30
Glu Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Tyr Ser His Glu Asp
65   70   75   80
Ile Phe Tyr Ala Val Ser Pro Ser Ser Ile Asn Tyr Arg Thr
                85   90

<210> 91
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 91
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Ser Ser Ser Ser Val Ser His Tyr
            20   25   30
Glu Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Ala Ala Tyr His Ser Tyr His Asp
65   70   75   80
Ile Phe Tyr Ala Val Ser Pro Ser Ser Ile Asn Tyr Arg Thr
                85   90

<210> 92
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 92
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Ser Ser Ser Ser Val Ser His Tyr
20 25 30
Glu Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Thr Ala Tyr Asp Ser Tyr Tyr Asp
65 70 75 80
Ile Tyr Ile Ala Tyr Ser Pro Ser Ser Ile Asn Tyr Arg Thr
85 90

<210> 93
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 93
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Ser Ser Ser Ser Val Ser Tyr Tyr
20 25 30
Glu Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Ile Ala Phe Tyr Ser His Asp Asp
65 70 75 80
Ile Tyr Ile Ser Asp Ser Pro Ser Ser Ile Asn Tyr Arg Thr
85 90

<210> 94
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 94
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Ser Ser Ser Ser Val Ser His Tyr
20 25 30
Ala Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Tyr Ser Tyr Asp Asp
65 70 75 80
Leu Tyr Val Ser Asp Ser Pro Ser Ser Ile Asn Tyr Arg Thr
85 90

<210> 95
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 95
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Ser Ser Ser Ser Val Ser His Tyr
20 25 30
Ala Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Phe Ala Tyr Tyr Ser Tyr Asp Asp
65 70 75 80
Ile Tyr Tyr Ala Tyr Ser Pro Ser Ser Ile Asn Tyr Arg Thr
85 90

<210> 96
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 96
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Ser Ser Ser Ser Val Ser His Tyr
20 25 30
Asp Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val His Ala Tyr Tyr Ser Tyr Asp Asp
65 70 75 80
Ile Tyr Val Ala Ile Ser Pro Ser Ser Ile Asn Tyr Arg Thr
85 90

<210> 97
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 07 domain
polypeptide

<400> 97
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Gly Tyr Arg Ile Thr Thr Thr Pro Thr Asn Gly Gln Gln Gly Asn Ser
35 40 45
Leu Glu Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn
50 55 60
Leu Ser Pro Gly Leu Glu Tyr Asn Val Ser Val Tyr Thr Val Lys Asp
65 70 75 80

Asp Lys Glu Ser Val Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 98
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 98
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Ala Tyr Tyr Ile Tyr Thr Tyr Lys Ser Asp Lys Thr Arg Tyr Leu Glu
35 40 45
Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser
50 55 60
Pro Gly Leu Tyr Tyr Gly Val Gly Ala Val Ala Thr Val Arg Pro His
65 70 75 80
Pro Thr Ala Gly Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 99
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 99
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
His Tyr Leu Ile Tyr Thr Tyr Gly His His Ser Ala Gly Leu Glu Glu
35 40 45
Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser Pro
50 55 60
Gly Leu Gly Tyr Ser Val Tyr Val Asn Thr Val Ala Tyr Lys Thr Met
65 70 75 80
Gly Pro Ile Ser Asp Thr Ile Ile Pro
85

<210> 100
<211> 94
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 10 domain polypeptide

<400> 100
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr
20 25 30
Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe

```
        35                  40                  45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
    50                  55                  60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Gly Arg Gly Asp
65                  70                  75                  80
Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile Asn Tyr Arg Thr
                85                  90
```

<210> 101
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 101

```
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1               5                  10                  15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Thr Tyr
            20                  25                  30
Tyr Ile Met Tyr Ser Leu Trp Gln His Tyr Val Thr Asn Ala Leu Gln
        35                  40                  45
Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu
    50                  55                  60
Lys Pro Gly Val Phe Tyr Gly Ile Leu Val Tyr Ala Val Ser Trp Trp
65                  70                  75                  80
Ser Arg Trp Pro Ile Ser Ile Asn Tyr Arg Thr
                85                  90
```

<210> 102
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 102

```
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1               5                  10                  15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Ser Tyr
            20                  25                  30
Tyr Ile Lys Tyr Ser Thr Cys Ser His Tyr Val Arg Ser Gly Val Gly
        35                  40                  45
Gln Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly
    50                  55                  60
Leu Lys Pro Gly Val Asp Tyr Met Ile Asp Val Asn Ala Val Leu Ser
65                  70                  75                  80
Glu Gly Arg Gly Asp Pro Ile Ser Ile Asn Tyr Arg Thr
                85                  90
```

<210> 103
<211> 84
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 103

```
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
```

1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Gly Tyr
20 25 30
Thr Thr Tyr Ser Tyr Arg Asp Ser Gln Glu Phe Thr Val Pro Gly Ser
35 40 45
Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Ile Tyr Asn
50 55 60
Ile Leu Val Ser Ala Val Ser Glu Trp Trp Lys Tyr Pro Ile Ser Ile
65 70 75 80
Asn Tyr Arg Thr

<210> 104
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 104
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr
20 25 30
Glu Ile Trp Tyr Glu Ser Tyr Phe Tyr Val Leu Trp Gln Glu Phe Thr
35 40 45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Ser Tyr Glu Ile Thr Val Ser Ala Val Tyr Trp His Tyr Ala Tyr
65 70 75 80
Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 105
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 105
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Leu Tyr
20 25 30
Ala Ile Met Tyr Thr Ala Tyr Glu Tyr Arg Val Met Asp Ala Lys Leu
35 40 45
Tyr Gln Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser
50 55 60
Gly Leu Lys Pro Gly Val Ser Tyr Tyr Ile Asn Val Ala Ala Val Tyr
65 70 75 80
Leu His Arg Tyr Phe Tyr Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 106
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III

domain polypeptide

<400> 106
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Pro Trp Asp Ala Pro Ala Val Thr Val Arg Gly Tyr
20 25 30
Lys Ile Asp Tyr Val Val Gln Thr Trp Ala Tyr Tyr Gln Glu Phe Thr
35 40 45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Ser Tyr Ala Ile Thr Val Leu Ala Val Tyr Arg Trp Tyr Tyr Ser
65 70 75 80
Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 107
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 107
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Gly Tyr
20 25 30
Gly Ile Asp Tyr Gly Gln Arg Asp Tyr Gln Gln Gly Ser Gln Gln Glu
35 40 45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys
50 55 60
Pro Gly Val Gln Tyr Asp Ile Tyr Val Gly Ala Val Glu Thr Tyr Val
65 70 75 80
Tyr Ala Arg Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 108
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 108
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Asp Ala Pro Ala Val Thr Val Arg Ser Tyr Tyr
20 25 30
Ile Tyr Tyr Tyr Asp Tyr Asp Gly Gly Ser Val Gln Glu Phe Thr Val
35 40 45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val
50 55 60
Ser Tyr Val Ile Ser Val Ala Ala Val Trp Tyr Ala Ala Tyr Arg Tyr
65 70 75 80
Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 109
<211> 89
<212> PRT

<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 109
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Asn Tyr
20 25 30
Leu Ile Asp Tyr Gly Tyr Lys Asn Tyr Ser Ile Ala Gly Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Ile Ala Thr Ile Ser Gly Leu Lys Pro
50 55 60
Gly Val Phe Tyr Ala Ile Leu Val Ala Ala Val Arg Tyr Phe Trp Tyr
65 70 75 80
Phe Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 110
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 110
Ile Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Gly Tyr
20 25 30
Ser Ile His Tyr Tyr Tyr Tyr Ser Phe Thr Gly Gln Glu Phe Thr Val
35 40 45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val
50 55 60
Ser Tyr Trp Ile Arg Val Trp Ala Val Arg Phe Trp Glu Tyr Leu Pro
65 70 75 80
Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 111
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 111
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Gly Tyr
20 25 30
Asp Ile Ala Tyr Gly Val Asn Tyr Tyr Tyr Tyr Ser Tyr Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
50 55 60
Gly Val Val Tyr Gly Ile Tyr Val Ala Ala Val Arg Tyr Trp His Tyr
65 70 75 80
Leu Phe Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 112
<211> 81
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 112
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Ile Tyr
20 25 30
Ser Ile Gly Ser Gln Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala
35 40 45
Thr Ile Ser Gly Leu Lys Pro Gly Val Trp Tyr Trp Ile Tyr Val Ala
50 55 60
Ala Val Arg Ala Trp Ser Tyr Trp His Pro Ile Ser Ile Asn Tyr Arg
65 70 75 80
Thr

<210> 113
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 113
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Glu Tyr
20 25 30
Tyr Ile Tyr Tyr Gly Ser Ser Gln Glu Thr Glu Gly Gln Glu Phe Thr
35 40 45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Asn Tyr Ser Ile Gly Val Ala Ala Val Gln Asn Ile Tyr Thr Tyr
65 70 75 80
Tyr Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 114
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 14 domain
polypeptide

<400> 114
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Ser Tyr
20 25 30
Glu Ile Gly Tyr Glu Tyr Ile Tyr Leu Gln Tyr Ser Gln Glu Phe Thr
35 40 45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Met Tyr Ser Ile Val Val Tyr Ala Val Asn Lys Val Tyr Ser Tyr

65 70 75 80
Phe Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 115
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 115
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Thr Tyr
20 25 30
Ser Ile Ser Tyr Phe Asp Tyr Leu His Leu Tyr Ser Gln Glu Phe Thr
35 40 45
Val Gln Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Tyr Tyr Ala Ile Tyr Val Trp Ala Val Gly Trp Trp Leu Ala Asp
65 70 75 80
Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 116
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 116
Val Ser Asp Val Pro Arg Asp Leu Gly Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Lys Tyr
20 25 30
Met Ile Ser Tyr Thr Leu Met Gly His Leu His Tyr Gly Ala Ser Gln
35 40 45
Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60
Lys Pro Gly Val Val Tyr Tyr Gly Ile Tyr Val Leu Ala Val Ser Glu
65 70 75 80
Tyr Gln Val Ala Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 117
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 117
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Ser Tyr
20 25 30
Asn Ile Ser Tyr Ser Lys Tyr His Tyr Ser Pro Ala Tyr Gln Glu Phe

```
        35                  40                  45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
    50                  55                  60
Gly Val Gln Tyr Tyr Ile Ser Val Ser Ala Val His Ala His Asn Val
65                  70                  75                  80
Ala Gly Pro Ile Ser Ile Asn Tyr Arg Thr
                85                  90


<210> 118
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<220>
<221> VARIANT
<222> 68
<223> Xaa = any amino acid

<400> 118
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1               5                  10                  15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Gly Gly
            20                  25                  30
Tyr Gly Ile Gly Tyr Ala Lys Ala Gly Ser Val Asp Ala Tyr Gln Glu
        35                  40                  45
Phe Thr Val Pro Gly Ser Lys Ser Thr Thr Thr Ile Ser Gly Leu Lys
    50                  55                  60
Pro Gly Val Xaa Tyr Tyr Ile Tyr Val Arg Ala Val Phe Ala His Pro
65                  70                  75                  80
Ala Tyr Pro Ile Ser Ile Asn Tyr Arg Thr
                85                  90


<210> 119
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 119
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1               5                  10                  15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Lys Tyr
            20                  25                  30
Gln Ile Ser Tyr Gly Tyr Tyr Ser Asn Thr Asp Gln Glu Phe Thr Val
        35                  40                  45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val
    50                  55                  60
Asp Tyr Trp Ile Tyr Val Ser Ala Val Ala Trp Gln Ala Asp Gln Gly
65                  70                  75                  80
Pro Ile Ser Ile Asn Tyr Arg Thr
                85


<210> 120
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
```

<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 120
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Thr Tyr
20 25 30
Ser Ile Ser Tyr Arg Tyr Gly Lys Trp Ser Gly Gln Glu Phe Thr Val
35 40 45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val
50 55 60
Tyr Tyr Asp Ile Gly Val Thr Ala Val Thr Ser Val Val Ser Gly Pro
65 70 75 80
Ile Ser Ile Asn Tyr Arg Thr
85

<210> 121
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 121
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Gln Val
20 25 30
Tyr Val Ile Ala Tyr Arg Tyr Tyr Val Arg Ser Trp Gly Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
50 55 60
Gly Val Tyr Tyr Ser Ile Asn Val Leu Ala Val Tyr Tyr Arg Thr Trp
65 70 75 80
Arg Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 122
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 122
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Ser Tyr
20 25 30
Asp Ile Ser Tyr Asn Gly Met Ala Tyr Thr Lys Thr Leu Val Gln Glu
35 40 45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys
50 55 60
Pro Gly Val Asn Tyr Leu Ile Asp Val Ile Ala Val Ser Phe Arg Arg
65 70 75 80
Trp Trp Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 123
<211> 88

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 123
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Asn Tyr
20 25 30
Ala Ile Ser Tyr Gln Asp Asp Ser Pro Tyr Val Gln Glu Phe Thr Val
35 40 45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val
50 55 60
Asn Tyr Asp Ile Ser Val Thr Ala Val Gly Trp Trp Arg Ser Gly Met
65 70 75 80
Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 124
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 124
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Thr Tyr
20 25 30
Asp Ile Gly Tyr Ser Ser Phe Asn Ser Ser Thr Leu Tyr Val Gln Glu
35 40 45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys
50 55 60
Pro Gly Val Asn Tyr Asp Ile Ser Val Thr Ala Val Arg Leu Gln Glu
65 70 75 80
Ser Gln Arg Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 125
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 125
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Glu Tyr
20 25 30
Asp Ile Tyr Tyr Val Asp Ser Tyr Tyr Tyr Phe Glu Gly Gln Tyr Pro
35 40 45
His Gln Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser
50 55 60
Asp Leu Lys Pro Gly Val Thr Tyr Asp Ile Gly Val Lys Ala Val Tyr
65 70 75 80
Asn Gly Ser Arg Ile Val Glu Pro Ile Ser Ile Asn Tyr Arg Thr
85 90 95

<210> 126
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 126
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Val Tyr
20 25 30
Glu Ile Ser Tyr Tyr Ser Ser Glu Ser Tyr Leu Pro Gly Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
50 55 60
Gly Val Thr Tyr Asp Ile His Val Ser Ala Val Ala Tyr Arg Gly Ala
65 70 75 80
Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 127
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 127
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Glu Tyr
20 25 30
Leu Ile Gly Tyr Ala Val Thr Glu Tyr Gly Asp Arg Gln Glu Phe Thr
35 40 45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Leu Tyr Asp Ile Arg Val Leu Ala Val Tyr Ala Arg Trp Pro Lys
65 70 75 80
Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 128
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 128
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Pro Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr
20 25 30
Ser Ile Trp Tyr Tyr His Tyr Tyr Pro Tyr Ala Gln Glu Phe Thr Val
35 40 45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Ser Leu Lys Gln Gly Val
50 55 60

Arg Tyr Phe Ile Asp Val Leu Ala Val Ala Trp Val Arg Trp Ala Tyr
65 70 75 80
Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 129
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 14 domain polypeptide

<400> 129
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Gly Phe
20 25 30
Gln Val Asp Ala Val Pro Ala Asn Gly Gln Thr Pro Ile Gln Arg Thr
35 40 45
Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly
50 55 60
Thr Asp Tyr Lys Ile Tyr Leu Tyr Thr Leu Asn Asp Asn Ala Arg Ser
65 70 75 80
Ser Pro Val Val Ile Asp Ala Ser Thr
85

<210> 130
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 130
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ser Phe
20 25 30
Trp Val Trp Ala Lys Pro Tyr Ser Tyr Tyr Trp Gly Ser Ile Gln Arg
35 40 45
Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro
50 55 60
Gly Thr Trp Tyr Ala Ile Asn Leu Tyr Thr Leu Thr Tyr Arg Phe Trp
65 70 75 80
Gly Asp Pro Val Val Ile Asp Ala Ser Thr
85 90

<210> 131
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 131
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
20 25 30

Gly Asp Val Ser Ala Gly Pro Ser Ser Thr Tyr Ile Glu Ser Ile Gln
        35   40   45
Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln
    50   55   60
Pro Gly Thr Trp Tyr Asn Ile Val Leu Gln Thr Leu Tyr Ser Trp Ser
65   70   75   80
Tyr Trp Pro Val Val Ile Asp Ala Ser Thr
                85   90

<210> 132
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 132
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Ser Thr Lys Thr Glu Thr Ile Thr Ser Phe
            20   25   30
Val Val Gly Ala Arg Pro Tyr Tyr Tyr Pro Tyr Ile Gln Arg Thr Ile
        35   40   45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
    50   55   60
Val Tyr Gly Ile Trp Leu Gln Thr Leu Arg Tyr Tyr Tyr Gly Tyr Thr
65   70   75   80
Pro Val Val Ile Asp Ala Ser Thr
                85

<210> 133
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 133
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ala Phe
            20   25   30
Glu Val Val Ala His Pro Asn Tyr Asp Tyr Tyr Ile Gln Arg Thr Ile
        35   40   45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
    50   55   60
Ser Tyr Trp Ile Tyr Leu Tyr Thr Leu Tyr Ser Arg Arg Tyr Leu Pro
65   70   75   80
Val Val Ile Asp Ala Ser Thr
                85

<210> 134
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 134

Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ser Phe
20 25 30
Ser Val Ile Ala Phe Pro Leu Arg Glu Arg Ala Ala Thr Ile Gln Arg
35 40 45
Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro
50 55 60
Gly Thr Leu Tyr Ser Ile Ile Leu Asn Thr Leu Trp Arg Tyr Tyr Pro
65 70 75 80
Ile Pro Val Val Ile Asp Ala Ser Thr
85

<210> 135
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 135
Asn Val Ser Pro Pro His Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Asn Phe
20 25 30
Leu Val Tyr Ala Tyr Pro Thr Glu His Val Arg Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Lys Tyr Trp Ile Tyr Leu Tyr Thr Leu Ile Tyr Asn Met Tyr Tyr Pro
65 70 75 80
Val Val Ile Asp Ala Ser Thr
85

<210> 136
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 136
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Gly Phe
20 25 30
Ser Val Trp Ala Gln Pro Gly Tyr Leu Glu Glu Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Ser Tyr Asp Ser Ile Ala Leu Ser Thr Leu Gly Arg Tyr Arg Trp Ser
65 70 75 80
Asp Pro Val Val Ile Asp Ala Ser Thr
85

<210> 137
<211> 89
<212> PRT
<213> Artificial Sequence

<220>

<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 137
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Gln Phe
20 25 30
His Val Thr Ala Gly Pro His Trp Val Gly Arg Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Ala Tyr Leu Ile Tyr Ala Leu Ser Thr Leu Arg Ser Tyr Arg Tyr Gln
65 70 75 80
Trp Pro Val Val Ile Asp Ala Ser Thr
85

<210> 138
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 138
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
20 25 30
His Val Ser Ala Leu Pro Leu Val Tyr Gly Ser Tyr Ile Gln Arg Thr
35 40 45
Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly
50 55 60
Thr Thr Tyr Asp Ile Tyr Leu Ser Thr Leu Asn Ser His Trp Leu Thr
65 70 75 80
Ala Pro Val Val Ile Asp Ala Ser Thr
85

<210> 139
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 139
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Arg Phe
20 25 30
Tyr Val Glu Ala Thr Pro Ser Ala Ala Ala Asn Thr Ser Ile Gln Arg
35 40 45
Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro
50 55 60
Gly Thr Met Tyr Gln Ile Trp Leu Ala Thr Leu Ser Tyr Tyr Ala Ser
65 70 75 80
His Tyr Pro Val Val Ile Asp Ala Ser Thr
85 90

<210> 140
<211> 90

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 140
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ser Phe
20 25 30
Gly Val Thr Ala Lys Pro Val Trp Ser Trp Gly Ser Ile Gln Arg Thr
35 40 45
Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly
50 55 60
Thr Gly Tyr Ala Ile Ser Leu Tyr Thr Leu Leu Arg Tyr Trp Tyr Arg
65 70 75 80
Tyr Tyr Pro Val Val Ile Asp Ala Ser Thr
85 90

<210> 141
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 141
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ala Phe
20 25 30
Tyr Val Gln Ala Tyr Pro Tyr Ser Asp His Ser Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Tyr Tyr Asp Ile Thr Leu Ser Thr Leu Arg Ser Tyr Tyr Tyr Arg Pro
65 70 75 80
Val Val Ile Asp Ala Ser Thr
85

<210> 142
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 142
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Gly Tyr Arg Ile Thr Thr Thr Pro Thr Asn Gly Gln Gln Gly Asn Ser
35 40 45
Leu Glu Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn
50 55 60
Leu Ser Pro Gly Leu Glu Tyr Asn Val Ser Val Tyr Thr Val Lys Asp
65 70 75 80
Asp Lys Glu Ser Val Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 143
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 143
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
 1   5   10   15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
            20   25   30
Gly Tyr Thr Ile Val Ala Val Ser Tyr Ser Phe Tyr Tyr Tyr Leu Glu
        35   40   45
Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser
    50   55   60
Pro Gly Leu Ser Tyr Asp Glu Val Tyr Val Val Thr Val Ala Tyr Lys
65   70   75   80
Ser His Gly Val Pro Ile Ser Asp Thr Ala Pro Ser
                85   90

<210> 144
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 144
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr
            20   25   30
Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Gly Arg Gly Asp
65   70   75   80
Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 145
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 145
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Thr Tyr
            20   25   30
Gln Ile Gly Tyr Gly Tyr Asn Arg Gly Thr Ser Gln Glu Phe Thr Val
        35   40   45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val
    50   55   60

Ser Tyr Gly Ile Tyr Val Tyr Ala Val Tyr Glu Trp Ser Tyr Ser Pro
65 70 75 80
Ile Ser Ile Asn Tyr Arg Thr
85

<210> 146
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 146
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr
20 25 30
Ser Ile Thr Tyr Thr Tyr Tyr Gln Ala Phe Gly Thr Gln Glu Phe Thr
35 40 45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Gly Tyr Tyr Ile Gln Val Tyr Ala Val Gly Asp Arg Val Ser Asn
65 70 75 80
Gly Gly Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 147
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 147
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr
20 25 30
Gly Ile Tyr Tyr Ser Met Ser Ser Tyr Gly Arg Gln Glu Phe Thr Val
35 40 45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val
50 55 60
Thr Tyr Gln Ile Tyr Met Ser Ala Val Asp Asn Trp Gly Val Gly Tyr
65 70 75 80
Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 148
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 148
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Gly Phe
20 25 30

Gln Val Asp Ala Val Pro Ala Asn Gly Gln Thr Pro Ile Gln Arg Thr
35 40 45
Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly
50 55 60
Thr Asp Tyr Lys Ile Tyr Leu Tyr Thr Leu Asn Asp Asn Ala Arg Ser
65 70 75 80
Ser Pro Val Val Ile Asp Ala Ser Thr
85

<210> 149
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 149
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ser Phe
20 25 30
Thr Val Trp Ala Ser Pro Arg Ser Tyr Thr His Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Tyr Tyr Arg Ile Tyr Leu Tyr Thr Leu Tyr Asn Thr Tyr Phe Ser Pro
65 70 75 80
Val Val Ile Asp Ala Ser Thr
85

<210> 150
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 150
Asn Val Ser Pro Pro Arg His Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ser Phe
20 25 30
Arg Val Trp Ala Ala Pro Thr Met Tyr Gln Tyr Leu Tyr Ile Gln Arg
35 40 45
Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro
50 55 60
Gly Thr Tyr Tyr Gln Ala Ile Ile Leu Gly Thr Leu Ser Thr Ser Asn
65 70 75 80
Thr Pro Ser Pro Val Val Ile Asp Ala Ser Thr
85 90

<210> 151
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 151

Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ser Phe
20 25 30
Phe Val Gln Ala Tyr Pro Tyr Gly Glu Leu Tyr Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Ser Tyr Gly Ile Arg Leu Ser Thr Leu Ile Asp Ser Asp Ser Tyr Gly
65 70 75 80
Pro Val Val Ile Asp Ala Ser Thr
85

<210> 152
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 152
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Arg Phe
20 25 30
Thr Val Val Ala His Pro Gly Tyr Pro Gly Tyr Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Tyr Tyr Ser Ile Asp Leu Arg Thr Leu Ala Tyr Ala Gln Gly Tyr Ser
65 70 75 80
Pro Val Val Ile Asp Ala Ser Thr
85

<210> 153
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 153
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Arg Phe
20 25 30
Thr Val Thr Ala Asp Pro Trp Tyr Trp Tyr Gly Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Tyr Tyr Ser Gly Ile Val Leu Asp Thr Leu Ser Trp Val Ser Gly Gly
65 70 75 80
Tyr Pro Val Val Ile Asp Ala Ser Thr
85

<210> 154
<211> 91
<212> PRT
<213> Artificial Sequence

<220>

<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 154
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Asn Phe
20 25 30
Ser Val Gln Ala Gly Pro Ser Ile Tyr Tyr Gly Tyr Tyr Ile Gln Arg
35 40 45
Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro
50 55 60
Gly Thr Gln Tyr Ser Ile Ser Leu Arg Thr Leu Trp Arg Trp Tyr Gly
65 70 75 80
Thr Tyr Trp Pro Val Val Ile Asp Ala Ser Thr
85 90

<210> 155
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 155
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Gly Phe
20 25 30
Leu Val Asn Ala Trp Pro His Trp Ala Asn Val Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Phe Tyr Val Ile Tyr Leu Ala Thr Leu Gln Tyr Ser Ser Val Tyr Ser
65 70 75 80
Pro Val Val Ile Asp Ala Ser Thr
85

<210> 156
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 156
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ser Phe
20 25 30
Ala Val His Ala Gln Pro Val Tyr Ala Asn Trp Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Tyr Tyr Gly Ile Asn Leu Ala Thr Leu Tyr Gly Pro Asn Tyr Trp Pro
65 70 75 80
Val Val Ile Asp Ala Ser Thr
85

<210> 157
<211> 89

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 157
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
20 25 30
Ser Val Phe Ala Tyr Pro Glu Ser Gly Ala Tyr Asn Ile Gln Arg Thr
35 40 45
Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly
50 55 60
Thr Ala Tyr Asp Ile Lys Leu Asp Thr Leu Leu Ser Ser Tyr Trp Tyr
65 70 75 80
His Pro Val Val Ile Asp Ala Ser Thr
85

<210> 158
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 158
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Thr Phe
20 25 30
Gly Val Tyr Ala Met His Pro Glu Glu Gly Gly Tyr Tyr Tyr Ile Gln
35 40 45
Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln
50 55 60
Pro Gly Thr Trp Tyr Gly Ile Gly Leu Asp Thr Leu Tyr Ser Val His
65 70 75 80
Asp Glu Arg Pro Val Val Ile Asp Ala Ser Thr
85 90

<210> 159
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 159
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Arg Phe
20 25 30
Tyr Val Thr Asp Ala Leu Pro Gly Asp Ala Tyr Arg Tyr His Arg Ile
35 40 45
Gln Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu
50 55 60
Gln Pro Gly Thr Leu Tyr Gly Ile Ser Leu Thr Thr Leu Tyr Tyr Ala
65 70 75 80
Ser Ala Ile Pro Val Val Ile Asp Ala Ser Thr
85 90

<210> 160
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 160
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Gly Tyr Arg Ile Thr Thr Thr Pro Thr Asn Gly Gln Gln Gly Asn Ser
35 40 45
Leu Glu Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn
50 55 60
Leu Ser Pro Gly Leu Glu Tyr Asn Val Ser Val Tyr Thr Val Lys Asp
65 70 75 80
Asp Lys Glu Ser Val Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 161
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 161
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Arg Asp Ile Thr
20 25 30
Thr Tyr Gly Ile Glu Thr Glu Tyr Asp His Ser Val Gly Leu Glu Glu
35 40 45
Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser Pro
50 55 60
Gly Leu Asn Tyr Asp Val Glu Val Val Thr Val Gly Trp Gly Val Tyr
65 70 75 80
Gln Arg Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 162
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<220>
<221> VARIANT
<222> 65
<223> Xaa = any amino acid

<400> 162
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr

20 25 30
Thr Tyr Val Ile Ser Thr Val Thr Ser His Thr Gly Pro Arg Leu Glu
35 40 45
Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser
50 55 60
Xaa Gly Leu Cys Tyr Asp Val Tyr Val Tyr Thr Val Thr Asp Thr Ala
65 70 75 80
Tyr Thr Thr Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 163
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 163
Ser Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Gly Trp Glu Arg Ser Thr Thr Pro Gly Ile Thr
20 25 30
Ser Tyr Ser Ile Asp Thr Ala Lys Asp Asp Val Pro Tyr Leu Glu Glu
35 40 45
Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser Pro
50 55 60
Gly Leu Asn Tyr Thr Val Val Val Ala Thr Val Gly Trp Ser Val Asp
65 70 75 80
Gly Pro Ile Ser Asp Thr Ile Ile Pro
85

<210> 164
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 164
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Tyr Tyr Glu Ile Asn Thr Thr Gly Tyr Tyr Gly Phe Tyr Pro Gly Gly
35 40 45
Leu Glu Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn
50 55 60
Leu Ser Pro Gly Leu Tyr Tyr Gln Val Thr Val Gln Thr Val Val Tyr
65 70 75 80
Ser Met Trp Tyr His Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 165
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 165
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
 1   5   10   15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
            20   25   30
Tyr Tyr Gly Ile Trp Thr Leu Thr Trp Leu Gln Tyr Tyr Ser Tyr Arg
        35   40   45
Trp Gly Leu Glu Glu Ala Val His Ala Asp Gln Ser Ser Cys Thr Phe
    50   55   60
Asp Asn Leu Ser Pro Gly Leu Val Tyr Leu Val Tyr Val Gly Thr Val
65   70   75   80
Arg Ser Pro Met Ala Arg Pro Ile Ser Asp Thr Ile Ile Pro
                85   90

<210> 166
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 166
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
 1   5   10   15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
            20   25   30
Trp Tyr Trp Ile Gly Thr Trp Tyr Ser Gly Tyr Met Val Gly Leu Glu
        35   40   45
Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser
    50   55   60
Pro Gly Leu Thr Tyr Trp Val Leu Val Gly Thr Val Val Arg Ser Pro
65   70   75   80
Ser Arg Arg Pro Ile Ser Asp Thr Ile Ile Pro
                85   90

<210> 167
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 167
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
 1   5   10   15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Val Thr
            20   25   30
Thr Tyr Ser Ile Tyr Thr Tyr Gly Tyr Trp Asp Ser His Tyr Met Ser
        35   40   45
Leu Glu Glu Val Val His Ala Asp Gln Ser Arg Cys Thr Phe Asp Asn
    50   55   60
Leu Ser Pro Gly Leu Tyr Tyr Ser Val Glu Val Tyr Thr Val Tyr Tyr
65   70   75   80
Gly Leu Tyr Val Val Pro Ile Ser Asp Thr Ile Ile Pro
                85   90

<210> 168
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 168
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Thr Tyr Gly Ile Glu Thr Gln Thr Val Glu Trp Val Tyr Tyr Leu Glu
35 40 45
Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser
50 55 60
Pro Gly Leu Tyr Tyr Asn Val Thr Val Gly Thr Val Met Leu Asp Ala
65 70 75 80
Ala Tyr Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 169
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 169
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Asp Tyr Tyr Ile Ile Thr Arg Ser Arg Trp Gly Tyr Leu Glu Glu Val
35 40 45
Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser Pro Gly
50 55 60
Leu Arg Tyr His Val Tyr Val Trp Thr Val Gly His Tyr Arg Asp Pro
65 70 75 80
Ile Ser Asp Thr Ile Ile Pro
85

<210> 170
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 170
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Asn Tyr Leu Ile Gln Thr Asp Tyr Phe Ala Phe Ile Lys Gly Val Leu
35 40 45
Glu Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu
50 55 60
Ser Pro Gly Leu Tyr Tyr Tyr Val Gly Val Asp Thr Val Ser Val Pro
65 70 75 80
Ser His Gly Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 171

<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 171
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Tyr Tyr Thr Ile Ala Thr Ala Asp Tyr Thr Tyr Ser Tyr Ala His Leu
35 40 45
Glu Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu
50 55 60
Ser Pro Gly Leu Asn Tyr Glu Val Gly Val Gly Thr Val Ser Val Tyr
65 70 75 80
Ser Tyr Ile Gly Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 172
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 172
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Tyr Tyr Ser Ile Asp Thr Trp Thr Phe Gly Gln Trp Gly Leu Glu Glu
35 40 45
Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser Pro
50 55 60
Gly Leu Tyr Tyr Tyr Val Glu Val Val Thr Val Tyr Glu Trp Ala Tyr
65 70 75 80
Ser Tyr Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 173
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 173
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Met Tyr Ala Ile Thr Thr Tyr Glu Tyr Ser Arg Ala Trp Gln Tyr Leu
35 40 45
Glu Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu
50 55 60
Ser Pro Gly Leu Thr Tyr Tyr Val Glu Val Tyr Thr Val Arg Tyr Thr
65 70 75 80
Trp Ser Asp Pro Ile Ser Asp Thr Ile Ile Pro

85 90

<210> 174
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 174
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Asp Tyr Asn Ile Ser Thr Trp Leu Tyr Thr Ser Val Ser Val Tyr Thr
35 40 45
Glu Leu Glu Glu Val Val His Ala Gly Gln Ser Ser Cys Thr Phe Asp
50 55 60
Asn Leu Ser Pro Gly Leu Ala Tyr Val Val Tyr Val Trp Ser Thr Val
65 70 75 80
Trp Glu His Phe Tyr Pro Ser Pro Ile Ser Asp Thr Ile Ile Pro
85 90 95

<210> 175
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 175
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Trp Tyr Trp Ile Asn Thr Ser Leu Ala Asn Val Arg Met Ser Leu Glu
35 40 45
Glu Val Val His Ala Asp Gln Ser Gly Cys Thr Phe Asp Asn Leu Ser
50 55 60
Pro Gly Leu Tyr Tyr Asp Val Gln Val Arg Thr Val Ser Ala Ala Glu
65 70 75 80
Gly Tyr Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 176
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 176
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Lys Tyr Ile Ile Tyr Thr Gly Tyr Gly Ala Ser Tyr Asp Leu Glu Glu
35 40 45
Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser Pro

50 55 60
Gly Leu Lys Tyr Thr Val Thr Val Trp Thr Val Ser Tyr Ala Ser Gln
65 70 75 80
Val Pro Ile Ser Asp Thr Ile Ile Pro
85

<210> 177
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 177
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Met Tyr Ser Ile Tyr Thr Tyr Asp Tyr Thr Arg Asn Tyr Val Leu Glu
35 40 45
Glu Ala Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser
50 55 60
Pro Gly Leu Tyr Gly Tyr Tyr Val Gly Val Gly Thr Val Thr Gly Ala
65 70 75 80
Gly Trp His Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 178
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 178
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Val Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Gly Ile Thr
20 25 30
Gln Tyr Asp Ile Ala Thr Leu Ser Tyr Gly Gly Arg Ser Gly Gly Leu
35 40 45
Glu Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu
50 55 60
Ser Pro Gly Leu Ser Tyr Val Val Ser Val Ser Thr Val Thr Ser Asn
65 70 75 80
Glu Tyr Ser Ala Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 179
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 179
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr

20 25 30
Met Tyr Asp Ile Lys Thr Ile Tyr Tyr Lys Ala Tyr Tyr Tyr Gly Leu
35 40 45
Glu Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu
50 55 60
Ser Pro Gly Leu Tyr Tyr Phe Val Gly Val Val Thr Val Glu Arg Pro
65 70 75 80
Arg Tyr Tyr Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 180
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 180
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Tyr Tyr Tyr Ile Asp Thr Asn Gly Gly Tyr Trp Ser Tyr Leu Glu Glu
35 40 45
Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser Pro
50 55 60
Gly Leu Gly Tyr Pro Val Gly Tyr Val Arg Thr Val Tyr Ala Gly Trp
65 70 75 80
Leu Lys Gly Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 181
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 181
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Tyr Tyr Tyr Ile Gly Thr Tyr Gln Gly Thr Thr Tyr Glu His Leu Glu
35 40 45
Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser
50 55 60
Pro Gly Leu Ile Tyr Leu Val Tyr Val Ser Thr Val Tyr Trp Asp Ser
65 70 75 80
Met Ser Ser Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 182
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 182
Pro Leu Ser Pro Pro Ala Asn Leu Arg Leu Glu Ala Asn Pro Asp Thr
 1   5   10   15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
            20   25   30
Arg Tyr Val Ile Ala Thr Gly Tyr Gly Gly Ser Trp Tyr His Leu Glu
        35   40   45
Glu Val Val His Ala Asp Gln Ser Arg Cys Thr Phe Asp Asn Leu Ser
    50   55   60
Pro Gly Leu Ala Tyr Tyr Val Asp Val Tyr Thr Val Thr Pro Gly Glu
65   70   75   80
Lys His Ser Pro Ile Ser Asp Thr Ile Ile Pro
                85   90

<210> 183
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 183
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
 1   5   10   15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
            20   25   30
Lys Tyr Ile Ile Ser Thr Tyr Val Asp Tyr Gly Gly Tyr Leu Glu Glu
        35   40   45
Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser Pro
    50   55   60
Gly Leu Gly Tyr Ser Val Thr Val Ser Thr Val Ser Ala Gly Trp Asp
65   70   75   80
Ser Pro Ile Ser Asp Thr Ile Ile Pro
                85

<210> 184
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 184
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
 1   5   10   15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
            20   25   30
Ser Tyr Arg Ile Ser Thr Glu Trp Arg Trp Arg Tyr Thr Gly Leu Glu
        35   40   45
Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser
    50   55   60
Pro Gly Leu Ile Tyr Gly Val Gly Val Ser Thr Val Trp Lys His Asn
65   70   75   80
Ser Gln Ala Pro Ile Ser Asp Thr Ile Ile Pro
                85   90

<210> 185
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 185
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Met Tyr Tyr Ile Ser Thr Gly Gly Ser Ser Tyr Lys Pro Asp Arg Leu
35 40 45
Glu Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu
50 55 60
Ser Pro Gly Leu Asp Tyr Met Val Tyr Val Arg Thr Val Met Tyr Tyr
65 70 75 80
Asn Arg Ser Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 186
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 186
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Gly Tyr Ser Ile Ala Thr Tyr Leu Thr Tyr Ser Asn Leu Val Gly Leu
35 40 45
Glu Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu
50 55 60
Ser Pro Gly Leu Ser Tyr Lys Val Ser Val Tyr Thr Val Tyr Gly Tyr
65 70 75 80
Ser Tyr Gly Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 187
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 187
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Ser Asp Ile Thr
20 25 30
Lys Tyr Tyr Ile Ala Thr Trp Phe Gly Asp Tyr Gly Tyr Ser Leu Glu
35 40 45
Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser
50 55 60
Pro Gly Leu Gln Tyr Gly Val Ser Val Ala Thr Val Lys Gly Gly Gln
65 70 75 80
Ala His Tyr Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 188

<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 188
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Lys Tyr Tyr Ile Leu Thr Ser Gly Tyr Trp Gly Gly Gly Leu Glu Glu
35 40 45
Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser Pro
50 55 60
Gly Leu Thr Tyr Leu Val Ser Val Trp Thr Val Thr His Tyr Ala Gly
65 70 75 80
Tyr Pro Ile Ser Asp Thr Ile Ile Pro
85

<210> 189
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 189
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Tyr Tyr Ser Ile Thr Thr Ser Phe Tyr Tyr Ser Glu Leu Glu Glu Val
35 40 45
Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser Pro Gly
50 55 60
Leu Lys Tyr Met Val Ser Val Ser Thr Val Ser Tyr Ser Val Gly Ser
65 70 75 80
Pro Ile Ser Asp Thr Ile Ile Pro
85

<210> 190
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<220>
<221> VARIANT
<222> 71
<223> Xaa = any amino acid

<400> 190
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Thr Tyr Tyr Ile Ser Thr Gln Gly Gln Asp Glu Arg Gly Tyr Val Leu
35 40 45

Glu Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Lys Leu
    50   55   60
Ser Pro Gly Leu Ile Tyr Xaa Val Ile Val Trp Thr Val Asp Asp Asn
65   70   75   80
Arg Tyr Asp Pro Ile Ser Asp Thr Ile Ile Pro
                85   90

<210> 191
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 191
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
 1   5   10   15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
            20   25   30
Arg Tyr Tyr Ile Arg Thr Ser Tyr Val Arg His Gly Arg Leu Glu Glu
        35   40   45
Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser Pro
    50   55   60
Gly Leu Tyr Tyr Asn Val Ser Val Ser Thr Val Gly Tyr Tyr Tyr Met
65   70   75   80
Leu Pro Ile Ser Asp Thr Ile Ile Pro
                85

<210> 192
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 192
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
 1   5   10   15
Gly Val Leu Thr Val Ser Arg Glu Arg Ser Thr Thr Pro Asp Ile Thr
            20   25   30
Thr Tyr Ser Ile Tyr Thr His Ser Gly Ala Leu Tyr Val Leu Glu Glu
        35   40   45
Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Pro Ser Pro
    50   55   60
Gly Leu Asn Tyr Asn Val Ser Val Ser Thr Val His Ser Arg Trp Arg
65   70   75   80
Tyr Gly Pro Ile Ser Asp Thr Ile Ile Pro
                85   90

<210> 193
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 193
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
 1   5   10   15

Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Met Tyr Gly Ile Val Thr Ile Tyr Thr Arg Tyr Tyr Ser Leu Glu Glu
35 40 45
Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser Pro
50 55 60
Gly Leu Ile Tyr Trp Val Tyr Val Leu Thr Val Tyr Tyr Ser Trp Tyr
65 70 75 80
Arg Pro Ile Ser Asp Thr Ile Ile Pro
85

<210> 194
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 194
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Thr Tyr Val Ile Asp Thr Gly Ala Ala Val Asn Tyr Val Leu Glu Glu
35 40 45
Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser Pro
50 55 60
Gly Leu Gln Tyr Ser Val Asp Val Val Val Thr Val Trp Tyr Ser Trp
65 70 75 80
Tyr Met Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 195
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 195
Pro Leu Ser Pro Pro Thr Asn Pro His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Thr Tyr Trp Ile Gly Thr Tyr Tyr Ser Ala Asp Glu Arg Leu Glu Glu
35 40 45
Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser Pro
50 55 60
Gly Leu Tyr Tyr Ala Val Val Val Gly Thr Val Gly Val Trp Tyr Arg
65 70 75 80
Val Ala Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 196
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 196
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
 1   5   10   15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
            20   25   30
Tyr Tyr Tyr Ile His Thr Tyr Tyr Trp Lys His Trp Gln Ser Leu Glu
        35   40   45
Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser
    50   55   60
Pro Gly Leu Lys Tyr Gly Val Trp Val Ser Thr Val Tyr Arg Val Val
65   70   75   80
Tyr Tyr Pro Ile Ser Asp Thr Ile Ile Pro
                85   90

<210> 197
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 197
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Ser Pro Asp Thr
 1   5   10   15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
            20   25   30
Thr Tyr Leu Ile Leu Thr Tyr Leu Gly Tyr Ser Arg Val Leu Glu Glu
        35   40   45
Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser Pro
    50   55   60
Gly Leu Trp Tyr Met Val Tyr Val Asp Thr Val Gly Arg Val Pro Tyr
65   70   75   80
Ile Gly Pro Ile Ser Asp Thr Ile Ile Pro
                85   90

<210> 198
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 198
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
 1   5   10   15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
            20   25   30
Val Tyr Tyr Ile Tyr Thr Tyr Thr Tyr Asn Ala Asp Leu Ile Leu Glu
        35   40   45
Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser
    50   55   60
Pro Gly Leu Ile Tyr Ser Val Tyr Val Gly Thr Val Ala Ser Asp Asp
65   70   75   80
Gly Arg Pro Ile Ser Asp Thr Ile Ile Pro
                85   90

<210> 199
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 199
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
1 5 10 15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
20 25 30
Ala Tyr Val Ile Tyr Thr Tyr Ser Glu Ser Asp Gly Arg Val Leu Glu
35 40 45
Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe Asp Asn Leu Ser
50 55 60
Pro Gly Leu Arg Tyr Ser Val Lys Val Ser Thr Val Tyr Tyr Ser Tyr
65 70 75 80
Ala Tyr Pro Ile Ser Asp Thr Ile Ile Pro
85 90

<210> 200
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 200
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr
20 25 30
Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Gly Arg Gly Asp
65 70 75 80
Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 201
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 201
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Gly Tyr
20 25 30
Tyr Ile Ser Tyr Tyr Tyr His Ser Thr Arg Asp Ser Gln Glu Phe Thr
35 40 45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Ser Tyr Tyr Val Gly Val Gly Ala Val Trp Lys Lys Asp Tyr Tyr
65 70 75 80
Phe Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 202
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 202
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr
20 25 30
Tyr Ile Leu Tyr Gly Asp Tyr Asn Ala Tyr Met Asp Tyr Ala Gly Gln
35 40 45
Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu
50 55 60
Lys Pro Gly Val Gly Tyr Val Glu Ile Asp Val Tyr Ala Val Arg Thr
65 70 75 80
Ser Glu Glu Gln Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 203
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 203
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Ala Tyr
20 25 30
Gln Ile Arg Tyr Ala Tyr Tyr Ser Val Gly Arg Gln Glu Phe Thr Val
35 40 45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Arg Pro Gly Val
50 55 60
Lys Tyr His Ile Ser Val Tyr Ala Val Asn Gly Gly Met Val Thr Asp
65 70 75 80
Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 204
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 204
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr
20 25 30
Trp Ile Ile Tyr Trp Glu Ala Trp Glu Tyr Val Gln Ala Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
50 55 60
Gly Val His Tyr Gly Ile Met Val Ser Ala Val Ser Gly Glu Gln Pro
65 70 75 80

Trp Tyr Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 205
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 205
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Ile Tyr
20 25 30
Ser Ile Tyr Tyr Tyr Ser Tyr Val Met Arg Gly Tyr Tyr Phe Gln Glu
35 40 45
Phe Thr Val Leu Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys
50 55 60
Pro Gly Val Asn Tyr Asp Ile Asn Val Gln Ala Val Tyr His Arg Gly
65 70 75 80
Trp Arg Tyr Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 206
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 206
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Ala Val Arg Ala Tyr
20 25 30
Ser Ile Asp Tyr Tyr His Asp Asn Gly Asp Gly Thr Gln Glu Phe Thr
35 40 45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Thr Tyr Gly Ile Leu Val Tyr Ala Val Val Ser Asn Met Gly Ile
65 70 75 80
Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 207
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 207
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Ser Tyr
20 25 30
Tyr Ile Gly Tyr Ser Ala Tyr Asp Glu Tyr Gly Gly Arg Gln Glu Phe
35 40 45

Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
    50   55   60
Gly Val Ser Tyr Ser Ile Asn Val Phe Ala Val Tyr Thr Met Thr Gly
65   70   75   80
Arg Ala Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 208
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 208
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Lys Tyr
            20   25   30
Ser Ile Tyr Tyr Phe Ser Ser Tyr Ser Gly Ile Ala Gln Glu Phe Thr
        35   40   45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
    50   55   60
Val Tyr Tyr Gly Ile Tyr Val Glu Ala Val Tyr His His Tyr Ser Pro
65   70   75   80
Pro Ile Ser Ile Asn Tyr Arg Thr
                85

<210> 209
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 209
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Asn Tyr
            20   25   30
Tyr Ile Gln Tyr Met Val Asn Tyr Asn Asp Thr Gln Glu Phe Thr Val
        35   40   45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val
    50   55   60
Tyr Tyr Asp Ile Lys Val Ala Ala Val Tyr Val Ala Glu Asp Arg Pro
65   70   75   80
Ile Ser Ile Asn Tyr Arg Thr
                85

<210> 210
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 210
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15

Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Lys Tyr
            20   25   30
Tyr Ile Thr Tyr Tyr Arg Gly Arg Ser Gly Asn Gln Glu Phe Thr Val
        35   40   45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val
    50   55   60
Lys Tyr His Ile Leu Val Ser Ala Val Lys Tyr Pro Phe Arg Arg Leu
65   70   75   80
Pro Ile Ser Ile Asn Tyr Arg Thr
                85

<210> 211
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 211
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Thr Tyr
            20   25   30
Trp Ile Val Tyr Tyr Arg Ser Val Tyr Ser Asn Gly Gln Glu Phe Thr
        35   40   45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
    50   55   60
Val Ile Tyr Ser Ile Arg Val Ile Ala Val Ser Tyr Tyr Tyr Tyr Gly
65   70   75   80
Pro Ile Ser Ile Asn Tyr Arg Thr
                85

<210> 212
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 212
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Thr Tyr
            20   25   30
Ser Ile Ser Tyr Ser Phe Gly Leu Asp Tyr Glu Tyr Asp Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
    50   55   60
Gly Val Gln Tyr Tyr Ile Val Val Asp Ala Val Ala Gly Trp Gln Tyr
65   70   75   80
Tyr Pro Ile Ser Ile Asn Tyr Arg Thr
                85

<210> 213
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 213
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Gly Tyr
            20   25   30
Ser Ile Lys Tyr Gly Ser Thr Ile Ser Ala Asp Gln Glu Phe Thr Val
        35   40   45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val
    50   55   60
Phe Tyr Val Ile Met Val Trp Ala Val Tyr Tyr Ala Tyr Ala Asn Tyr
65   70   75   80
Pro Ile Ser Ile Asn Tyr Arg Thr
                85

<210> 214
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 214
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Ser Tyr
            20   25   30
His Ile Tyr Asp Tyr Tyr Asn Val His Ser Tyr Tyr Gly Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
    50   55   60
Gly Val Ser Tyr Ala Ile Tyr Val Gly Ala Val Asn Glu Lys Gln Leu
65   70   75   80
Gly Pro Ile Ser Ile Asn Tyr Arg Thr
                85

<210> 215
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 215
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Thr Tyr
            20   25   30
Val Ile Ser Tyr Met Ser Tyr Asp Ala Gln Gly Gly Gln Asn Gln Glu
        35   40   45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys
    50   55   60
Pro Gly Val Ala Tyr Asn Ile Ile Val Ser Ala Val Gly Gly Gly Gln
65   70   75   80
Gln Ala Val Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 216
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 216
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Glu Tyr
20 25 30
Ser Ile Tyr His Ser Trp Thr Leu Val Tyr Arg Arg Gln Glu Phe Thr
35 40 45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Asn Tyr Tyr Ile Tyr Val Gly Ala Val Asp Asn Gly Tyr Gly Pro
65 70 75 80
Asp Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 217
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<220>
<221> VARIANT
<222> 45, 58, 72
<223> Xaa = any amino acid

<400> 217
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Leu Arg Tyr Tyr
20 25 30
Glu Ile Lys Tyr Ser Gly Ser Ser Leu Tyr Val Gln Xaa Phe Thr Val
35 40 45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Xaa Gly Leu Lys Pro Gly Val
50 55 60
Ser Tyr Asn Ile Gly Val Ser Xaa Val Trp Gln Ala Phe Trp Pro Val
65 70 75 80
Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 218
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 218
Val Ser Asp Val Pro Arg Asp Leu Gly Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Arg Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Ser Tyr
20 25 30
Asp Ile Tyr Tyr Trp Tyr Thr Thr Gly Gly Ser Gln Glu Phe Thr Val
35 40 45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val
50 55 60
Met Tyr Asn Ile Tyr Val Thr Ala Val Asp Ala Asp Val Gly Gly Pro

65 70 75 80
Ile Ser Ile Asn Tyr Arg Thr
85

<210> 219
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 219
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Arg Tyr
20 25 30
Tyr Ile Gly Tyr Asn Trp Gln Ser Pro Ala Trp Asn Gln Glu Phe Thr
35 40 45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Tyr Tyr Gln Ile Tyr Val Ala Ala Val Leu Arg Tyr Gly Asp Tyr
65 70 75 80
Ala Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 220
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 220
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Ser Tyr
20 25 30
Ser Ile Gly Tyr Phe Gly Ala Tyr Arg Asn Trp Val Gln Glu Phe Thr
35 40 45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Thr Tyr Tyr Ile Glu Val Tyr Ala Val Tyr Ser Asn Pro Val Tyr
65 70 75 80
Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 221
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 221
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Lys Tyr
20 25 30
Gln Ile Tyr Tyr Tyr Tyr Ser Ala Tyr Val Lys Glu Ser Gln Glu Phe

35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
50 55 60
Gly Val Ser Tyr Asn Ile Ala Val Tyr Ala Val Ser Lys Ser Arg Tyr
65 70 75 80
Gln Pro Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 222
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 222
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Thr Ser Trp Asp Ala Pro Ala Val Thr Val Arg Asn Tyr
20 25 30
Ala Ile Tyr Tyr Tyr Asp Asp Asp Thr Gly Arg Gln Glu Phe Thr Val
35 40 45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val
50 55 60
Asp Tyr Tyr Ile Gly Val Glu Ala Val Trp Tyr Trp Val Ser Ser Pro
65 70 75 80
Ile Ser Ile Asn Tyr Arg Thr
85

<210> 223
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 223
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Thr Tyr
20 25 30
Thr Ile Trp Tyr Val Gln Arg Tyr Ala Tyr Ser Gln Glu Phe Thr Val
35 40 45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val
50 55 60
Ser Tyr Ser Ile Ser Val Arg Ala Val Ser Thr Asp Arg Tyr Tyr Pro
65 70 75 80
Ile Ser Ile Asn Tyr Arg Thr
85

<210> 224
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 224
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr

```
 1               5                  10                  15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr
            20                  25                  30
Ser Ile Ala Tyr Trp Gln Leu Tyr Leu Pro Val Gln Glu Phe Thr Val
        35                  40                  45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val
    50                  55                  60
Ser Tyr Gly Ile Thr Val Glu Ala Val Met Ser Gly Tyr Ser Ile Tyr
65                  70                  75                  80
Pro Ile Ser Ile Asn Tyr Arg Thr
                85
```

<210> 225
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 225

```
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Ala Pro Thr
 1               5                  10                  15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Lys Tyr
            20                  25                  30
Tyr Ile Trp Tyr Gly Tyr Ser Tyr Phe Val Ala Tyr Ser Ser Tyr Gln
        35                  40                  45
Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu
    50                  55                  60
Lys Pro Gly Val Arg Tyr Tyr Ile Gly Val Leu Ala Val Lys Tyr Pro
65                  70                  75                  80
Gly Asp Tyr Tyr Pro Ile Ser Ile Asn Tyr Arg Thr
                85                  90
```

<210> 226
<211> 86
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 226

```
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1               5                  10                  15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr His
            20                  25                  30
Ser Ile Gly Tyr Asn Tyr Tyr Gly Met Tyr Gln Glu Phe Thr Val Pro
        35                  40                  45
Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Tyr
    50                  55                  60
Tyr Tyr Ile Tyr Val Arg Ala Val Thr Gly Arg Glu Ala Ala Pro Ile
65                  70                  75                  80
Ser Ile Asn Tyr Arg Thr
                85
```

<210> 227
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III

domain polypeptide

<400> 227
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Thr Tyr
            20   25   30
Gln Ile Glu Tyr Val Ser Ser Tyr Tyr Arg Trp Thr Gln Glu Phe Thr
        35   40   45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
    50   55   60
Val Val Tyr Phe Ile Tyr Val Ala Ala Val Arg Asp Gly Pro Asn Asp
65   70   75   80
Pro Ile Ser Ile Asn Tyr Arg Thr
                85

<210> 228
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 228
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Ser Tyr
            20   25   30
Lys Ile Ser Tyr Tyr Gly Tyr His Trp Val Tyr Gln Glu Phe Thr Val
        35   40   45
Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val
    50   55   60
Ser Tyr Leu Ile Ser Val Ser Ala Val Asp Tyr Tyr Gly Val Leu Pro
65   70   75   80
Ile Ser Ile Asn Tyr Arg Thr
                85

<210> 229
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 229
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Thr Tyr
            20   25   30
Tyr Ile Gly Tyr Gly Met Tyr Thr Tyr Gly Gln Glu Phe Thr Val Pro
        35   40   45
Gly Ser Lys Ser Thr Thr Thr Ile Ser Gly Leu Lys Pro Gly Val Val
    50   55   60
Tyr Asp Ile Tyr Val Trp Ala Val Gly Phe Gly Arg Tyr Val Asp Pro
65   70   75   80
Ile Ser Ile Asn Tyr Arg Thr
                85

<210> 230
<211> 89
<212> PRT

<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 230
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Asn Tyr
20 25 30
Tyr Ile Gly Tyr Arg Tyr Thr Val Ala Asn Trp Cys Tyr Gln Glu Phe
35 40 45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
50 55 60
Gly Val Ser Tyr Trp Ile Thr Ala Lys Ala Val Val Phe Glu Gly Asp
65 70 75 80
His Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 231
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 231
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Lys Tyr
20 25 30
Tyr Ile Gly Tyr Lys Leu Gln Val Met Glu Pro Asp Gln Glu Phe Thr
35 40 45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Glu Tyr Trp Ile Gly Val Asp Ala Val Ser Tyr Tyr Trp Gly Phe
65 70 75 80
Asp Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 232
<211> 86
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 232
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Gly Tyr
20 25 30
Gly Ile Tyr Tyr Gly Asp Thr Gly Asp Thr Gln Glu Phe Thr Val Pro
35 40 45
Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Met
50 55 60
Tyr Ser Ile Val Val Phe Ala Val Glu Trp Tyr Met Trp Gln Pro Ile
65 70 75 80
Ser Ile Asn Tyr Arg Thr
85

<210> 233
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 233
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr
20 25 30
Trp Ile Gln Tyr Tyr Ile Tyr Tyr Ser Arg Gly Thr Gln Glu Phe Thr
35 40 45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Asn Tyr Ser Ile Gly Val Gln Ala Val Gln Ala Tyr Phe Gly Glu
65 70 75 80
Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 234
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 234
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Ser Tyr
20 25 30
Arg Ile Met Tyr Ser Gly Tyr Tyr Ala Trp Glu Tyr Ser Arg Gln Glu
35 40 45
Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys
50 55 60
Pro Gly Val Ile Tyr Ala Ile His Val Ser Ala Val Val Thr Asn Trp
65 70 75 80
Glu Gly Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 235
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 235
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Asp Tyr
20 25 30
Trp Ile Tyr Tyr Arg Tyr Ser Trp Pro Tyr Gly Ser Gln Glu Phe Thr
35 40 45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Thr Tyr Asp Ile Gln Val Glu Ala Val Tyr Gly Ser Glu Ser Gly

65 70 75 80
Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 236
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 236
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr
20 25 30
Tyr Gly Ile Tyr Tyr Ala Gly Lys Ala Gly Gly Asp Tyr Phe Ile Thr
35 40 45
Gln Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly
50 55 60
Leu Lys Pro Gly Val Glu Tyr Arg Ile Tyr Val Ala Ala Val Gly Tyr
65 70 75 80
His Tyr Thr Pro Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 237
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 237
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Asn Tyr
20 25 30
Ser Ile Lys Tyr Lys Tyr Ile Pro Tyr Val Ser His Gln Glu Phe Thr
35 40 45
Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly
50 55 60
Val Thr Tyr Ser Ile Arg Val Gln Ala Val Tyr Tyr Leu Ile Glu Arg
65 70 75 80
Tyr Pro Ile Ser Ile Asn Tyr Arg Thr
85

<210> 238
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 238
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Ile Tyr
20 25 30
Tyr Ile Ala Tyr Gly Tyr Tyr Pro Gly Trp Gly Arg Ala Gly Ser Gln

```
        35                  40                  45
Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu
    50                  55                  60
Lys Pro Gly Val Thr Tyr Gly Ile Ser Val Ser Ala Val Glu Glu Arg
65                  70                  75                  80
Arg Lys Val Pro Ile Ser Ile Asn Tyr Arg Thr
                85                  90
```

<210> 239
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 239

```
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1               5                  10                  15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Gly Phe
            20                  25                  30
Gln Val Asp Ala Val Pro Ala Asn Gly Gln Thr Pro Ile Gln Arg Thr
        35                  40                  45
Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly
    50                  55                  60
Thr Asp Tyr Lys Ile Tyr Leu Tyr Thr Leu Asn Asp Asn Ala Arg Ser
65                  70                  75                  80
Ser Pro Val Val Ile Asp Ala Ser Thr
                85
```

<210> 240
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 240

```
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1               5                  10                  15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Asp Phe
            20                  25                  30
Glu Val Ala Ala Leu Pro Met Val Ser Thr Gly Ile Gln Arg Thr Ile
        35                  40                  45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
    50                  55                  60
Thr Tyr Tyr Ile Ser Leu Tyr Thr Leu Asp Asp Asp Gly Pro Gly Thr
65                  70                  75                  80
Pro Val Val Ile Asp Ala Ser Thr
                85
```

<210> 241
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 241

```
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
```

```
 1               5                  10                  15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ser Phe
            20                  25                  30
Asn Val Val Ala Tyr Pro Ser Ser Gln Asp Gly Ile Gln Arg Thr Ile
        35                  40                  45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
    50                  55                  60
Gly Tyr Gln Ile His Leu Thr Thr Leu Gly His Leu Ser Phe Ser Pro
65                  70                  75                  80
Val Val Ile Asp Ala Ser Thr
                85
```

<210> 242
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 242

```
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1               5                  10                  15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
            20                  25                  30
Thr Val Asp Ala Ala Pro Ser Leu Val Val Asp Asn Ile Gln Arg Thr
        35                  40                  45
Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly
    50                  55                  60
Thr Tyr Tyr Ile Ile Leu Leu Tyr Thr Leu Tyr Asn Tyr Asp Ala Leu
65                  70                  75                  80
Pro Val Val Ile Asp Ala Ser Thr
                85
```

<210> 243
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 243

```
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1               5                  10                  15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Leu Phe
            20                  25                  30
Glu Val Tyr Ala Asp Pro Gln Val Ser Asn Gly Thr Tyr Ile Gln Arg
        35                  40                  45
Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro
    50                  55                  60
Gly Thr Tyr Tyr Arg Ile Gly Leu Tyr Thr Leu Ser Asp Tyr Glu Lys
65                  70                  75                  80
Ser Thr Pro Val Val Ile Asp Ala Ser Thr
                85                  90
```

<210> 244
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III

domain polypeptide

<400> 244
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Arg Phe
            20   25   30
Phe Val Ser Ala Val Pro Phe Glu Thr Gly Thr Ile Gln Arg Thr Ile
        35   40   45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
    50   55   60
Ala Tyr Asp Ile Ala Leu Tyr Thr Leu Phe Gly Tyr Tyr Tyr Tyr Pro
65   70   75   80
Val Val Ile Asp Ala Ser Thr
                85

<210> 245
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 245
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Asp Phe
            20   25   30
Gly Val Val Ala Ser Pro Tyr Leu Gly Gln Gly Ile Gln Arg Thr Ile
        35   40   45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
    50   55   60
Ala Tyr Ser Ile Lys Leu His Thr Leu His Val His Asp Tyr Tyr Pro
65   70   75   80
Val Val Ile Asp Ala Ser Thr
                85

<210> 246
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 246
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
            20   25   30
Tyr Val Ala Ala Asp Pro Thr Glu Asp Gly Lys Ile Gln Arg Thr Ile
        35   40   45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
    50   55   60
Tyr Tyr Thr Ile His Leu Arg Thr Leu Tyr Tyr Leu Val Ala Val Pro
65   70   75   80
Val Val Ile Asp Ala Ser Thr
                85

<210> 247
<211> 87
<212> PRT

<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<220>
<221> VARIANT
<222> 75
<223> Xaa = any amino acid

<400> 247
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
            20   25   30
Asp Val Ala Ala Asn Pro Ser Tyr Leu Gly Ala Ile Gln Arg Thr Ile
        35   40   45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
    50   55   60
Ala Tyr Asp Ile Ala Leu Gly Thr Leu Glu Xaa Tyr Val Ser Gly Pro
65   70   75   80
Val Val Ile Asp Ala Ser Thr
                85

<210> 248
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 248
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
            20   25   30
Gly Val Gly Ala Asp Pro Ala Met Tyr Ile Glu Tyr Pro Tyr Ile Gln
        35   40   45
Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln
    50   55   60
Pro Gly Thr Gln Tyr Gly Ile Tyr Leu Thr Thr Leu Ser Gln Ala Ser
65   70   75   80
Asp Tyr Pro Val Val Ile Asp Ala Ser Thr
                85   90

<210> 249
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 249
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
            20   25   30
Gly Val Arg Ala Tyr Pro Thr Tyr Arg Ser Ser Ile Gln Arg Thr Ile
        35   40   45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
    50   55   60

Leu Tyr Arg Ile Ser Leu Tyr Thr Leu Asp Ser Ala Gly Tyr Asn Pro
65 70 75 80
Val Val Ile Asp Ala Ser Thr
85

<210> 250
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 250
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Gln Phe
20 25 30
Ser Val Tyr Ala Tyr Pro Ala Arg Ser Lys Tyr His Ile Gln Arg Thr
35 40 45
Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly
50 55 60
Thr Gly Tyr Arg Ile Tyr Leu Gln Thr Leu Gly Gly Tyr Ser Asp Glu
65 70 75 80
Pro Val Val Ile Asp Ala Ser Thr
85

<210> 251
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 251
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Glu Phe
20 25 30
Asp Val Gly Ala Asp Pro Gly Lys Gly His Ala Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Ser Tyr Leu Ile Gly Leu Arg Thr Leu Asn Arg Val Leu His Tyr Pro
65 70 75 80
Val Val Ile Asp Ala Ser Thr
85

<210> 252
<211> 86
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 252
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ser Phe
20 25 30

Arg Val Asp Ala Gly Pro Gly Val Ala Gly Ser Ile Gln Arg Thr Ile
        35   40   45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
    50   55   60
Tyr Tyr Gln Ile Gln Leu Ala Ala Leu Ala Tyr Gly Tyr Tyr Pro Val
65   70   75   80
Val Ile Asp Ala Ser Thr
                85

<210> 253
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 253
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Arg Phe
            20   25   30
Tyr Val Ser Ala Gln Pro Arg Phe Tyr Tyr Tyr Asn Ile Gln Arg Thr
        35   40   45
Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly
    50   55   60
Thr Asp Tyr Thr Ile Gly Leu Tyr Thr Leu Gly Val Tyr Met His Tyr
65   70   75   80
Pro Val Val Ile Asp Ala Ser Thr
                85

<210> 254
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 254
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
            20   25   30
Ser Val Glu Ala Tyr Pro Arg Trp Tyr Ala Leu Ile Gln Arg Thr Ile
        35   40   45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
    50   55   60
Ser Tyr Tyr Ile Tyr Leu Trp Thr Leu Met Met Asp Thr Ser Ser Pro
65   70   75   80
Val Val Ile Asp Ala Ser Thr
                85

<210> 255
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 255

Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Glu Phe
            20   25   30
Phe Val Met Ala Glu Pro Tyr Tyr Gly Glu Gly Tyr Tyr Ile Gln Arg
        35   40   45
Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro
    50   55   60
Gly Thr Ser Tyr Ser Ile Asn Leu Tyr Thr Leu Lys Arg Pro Tyr Leu
65   70   75   80
Tyr Pro Val Val Ile Asp Ala Ser Thr
                85

<210> 256
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 256
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ser Phe
            20   25   30
Tyr Val Met Ala Gln Pro Thr Asn Tyr Tyr Gly Gln Ser Thr Tyr Ile
        35   40   45
Gln Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu
    50   55   60
Gln Pro Gly Thr Tyr Tyr Gly Ile Gln Leu Tyr Thr Leu Met Tyr Arg
65   70   75   80
Ala Ser Ala Pro Val Val Ile Asp Ala Ser Thr
                85   90

<210> 257
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      domain polypeptide

<400> 257
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Thr Phe
            20   25   30
Asp Val Tyr Ala Tyr Pro Gly Tyr Gly Gly Ser Tyr Trp Ser Ile Gln
        35   40   45
Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln
    50   55   60
Pro Gly Thr Ser Tyr Glu Ile Glu Leu Glu Thr Leu His Tyr Ser His
65   70   75   80
Ala Tyr Pro Val Val Ile Asp Ala Ser Thr
                85   90

<210> 258
<211> 89
<212> PRT
<213> Artificial Sequence

<220>

<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 258
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
20 25 30
Ser Val Leu Ala His Pro Leu Glu Val Ser Ser Tyr Ser Ile Gln Arg
35 40 45
Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro
50 55 60
Gly Thr Gly Tyr Arg Ile Phe Leu Ser Thr Leu Arg Trp Tyr Tyr Gly
65 70 75 80
Met Pro Val Val Ile Asp Ala Ser Thr
85

<210> 259
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 259
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
20 25 30
Ser Val Tyr Ala Asn Pro Met Tyr Pro Phe Tyr Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Tyr Tyr Glu Ile Tyr Leu Gly Thr Leu Tyr Tyr Phe Ala Thr Tyr Pro
65 70 75 80
Val Val Ile Asp Ala Ser Thr
85

<210> 260
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 260
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
20 25 30
Tyr Val Ser Ala Tyr Pro Tyr Tyr Val Ala Tyr Asp Ile Gln Arg Thr
35 40 45
Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly
50 55 60
Thr Tyr Tyr Asp Ile Asn Leu Ser Thr Leu Ser Tyr Ser Asp Asn Ser
65 70 75 80
Pro Val Val Ile Asp Ala Ser Thr
85

<210> 261
<211> 91

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 261
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
20 25 30
Lys Val Arg Ala Tyr Pro Ala Tyr Asn Tyr Gly Gly Trp Ser Ile Gln
35 40 45
Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln
50 55 60
Pro Gly Thr Tyr Tyr Ser Ile Tyr Leu Asp Thr Leu Tyr Leu Gly Ala
65 70 75 80
Tyr Trp Tyr Pro Val Val Ile Asp Ala Ser Thr
85 90

<210> 262
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 262
Asn Val Ser Pro Pro Arg Ser Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
20 25 30
Val Val Gly Ala Phe Pro Ala Tyr Ser Ala His Val Asp Ile Gln Arg
35 40 45
Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro
50 55 60
Gly Thr Gly Tyr Ile Ile Asn Leu Glu Thr Leu Ile Asn Ala Thr Gly
65 70 75 80
Tyr Pro Val Val Ile Asp Ala Ser Thr
85

<210> 263
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 263
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Gln Phe
20 25 30
Trp Val Leu Ala Gly Pro Ser Val Trp Thr Gly Arg Met Ser Ile Gln
35 40 45
Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln
50 55 60
Pro Gly Thr Thr Tyr Tyr Ile Gly Leu Tyr Thr Leu Gln Tyr Tyr Glu
65 70 75 80
Tyr Ser Pro Val Val Ile Asp Ala Ser Thr
85 90

<210> 264
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 264
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Thr Phe
            20   25   30
Arg Val Trp Ala Arg Pro Tyr Leu Tyr Tyr Trp Ile Gln Arg Thr Ile
        35   40   45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
    50   55   60
His Tyr Asp Ile Gly Leu Ser Thr Leu Ser Ser Thr Trp Tyr Tyr Pro
65   70   75   80
Val Val Ile Asp Ala Ser Thr
                85

<210> 265
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 265
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
            20   25   30
His Val Asn Ala Gln Pro Ser Ser Pro Pro Trp Ile Gln Arg Thr Ile
        35   40   45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
    50   55   60
Tyr Tyr Gly Ile Ser Leu Tyr Thr Leu Ser Trp Arg Gly Glu Tyr His
65   70   75   80
Pro Val Val Ile Asp Ala Ser Thr
                85

<210> 266
<211> 91
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 266
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Arg Phe
            20   25   30
Ser Val Leu Ala Tyr Pro Ser Lys Arg Thr Thr Tyr Thr Pro Ile Gln
        35   40   45
Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln
    50   55   60

Pro Gly Thr Gly Tyr Thr Ile Arg Leu Tyr Thr Leu Ser Pro Tyr Tyr
65 70 75 80
Trp Val Tyr Pro Val Val Ile Asp Ala Ser Thr
85 90

<210> 267
<211> 84
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 267
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Trp Phe
20 25 30
Tyr Val Ser Ala Phe Pro Leu Leu Val Asp Gly Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Tyr Tyr Gly Ile Asn Leu Tyr Thr Leu Ser Ser Tyr Pro Val Val Ile
65 70 75 80
Asp Ala Ser Thr

<210> 268
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 268
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Tyr Phe
20 25 30
Tyr Val Tyr Ala Lys Pro Arg Tyr Ile Asn Ser Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Asp Tyr Ser Ile Tyr Leu Asp Thr Leu Tyr Trp Gly Gly Glu Tyr Gly
65 70 75 80
Pro Val Val Ile Asp Ala Ser Thr
85

<210> 269
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 269
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ala Phe
20 25 30

Asn Val Tyr Ala Ser Pro Glu Tyr Trp Arg Tyr Gly Tyr Phe Arg Phe
35 40 45
Ile Gln Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly
50 55 60
Leu Gln Pro Gly Thr Gly Tyr Tyr Ile Tyr Leu Tyr Thr Leu Tyr His
65 70 75 80
Lys Tyr Gly Tyr Tyr Pro Val Val Ile Asp Ala Ser Thr
85 90

<210> 270
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 270
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ala Phe
20 25 30
Tyr Val His Ala Val Pro Met Leu Trp Val Val Asn Gly Ile Gln Arg
35 40 45
Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro
50 55 60
Gly Thr Ser Tyr Thr Ile Asn Leu Glu Thr Leu Arg Met Ser Ser His
65 70 75 80
Tyr Tyr Pro Val Val Ile Asp Ala Ser Thr
85 90

<210> 271
<211> 88
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 271
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ser Phe
20 25 30
Tyr Val Arg Ala Leu Pro Val Ser Ala Trp Pro Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Gly Tyr Asn Ile Gly Leu Val Thr Leu Tyr Tyr Gly Ala Ser Tyr Val
65 70 75 80
Pro Val Val Ile Asp Ala Ser Thr
85

<210> 272
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III domain polypeptide

<400> 272

Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ala Phe
20 25 30
Tyr Val Gly Ala His Pro Trp Tyr Asn Leu Glu Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Gly Tyr Val Ile Ser Leu Tyr Thr Leu Trp His His Asn Glu Ala Pro
65 70 75 80
Val Val Ile Asp Ala Ser Thr
85

<210> 273
<211> 89
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 273
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ser Phe
20 25 30
Trp Val His Ala Tyr Pro Ser Gly Ala Ser Gly Gly Ile Gln Arg Thr
35 40 45
Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly
50 55 60
Thr Asn Tyr Gly Ile Ala Leu Ala Thr Leu Thr His Tyr Tyr Thr Tyr
65 70 75 80
Ser Pro Val Val Ile Asp Ala Ser Thr
85

<210> 274
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 274
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Gly Phe
20 25 30
His Val Phe Ala Ser Pro Trp Tyr Ser Gly Ser Gln Ser Ile Gln Arg
35 40 45
Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro
50 55 60
Gly Thr Thr Tyr Tyr Ile Gly Leu Asn Thr Leu Tyr Ile Pro Gly His
65 70 75 80
Glu Pro Pro Val Val Ile Asp Ala Ser Thr
85 90

<210> 275
<211> 92
<212> PRT
<213> Artificial Sequence

<220>

<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 275
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Ser Phe
20 25 30
Tyr Val Asp Ala Gly Pro Trp Tyr Arg Pro Asp Ala Tyr Glu Tyr Ile
35 40 45
Gln Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu
50 55 60
Gln Pro Gly Thr Gly Tyr Ser Ile Gln Leu Tyr Thr Leu Tyr Ala Tyr
65 70 75 80
Ala Tyr Leu Tyr Pro Val Val Ile Asp Ala Ser Thr
85 90

<210> 276
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 276
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Leu Phe
20 25 30
Tyr Val Tyr Ala Tyr Pro Arg Tyr Tyr Pro Gly Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Ser Tyr Ser Ile Tyr Leu Ser Thr Leu Trp Asp Thr Lys Gly Tyr Pro
65 70 75 80
Val Val Ile Asp Ala Ser Thr
85

<210> 277
<211> 87
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
domain polypeptide

<400> 277
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
1 5 10 15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Thr Phe
20 25 30
Met Val Val Ala Tyr Pro Met Phe Gln Tyr Arg Ile Gln Arg Thr Ile
35 40 45
Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly Leu Gln Pro Gly Thr
50 55 60
Ser Tyr Thr Ile Tyr Leu Gln Thr Leu Gly Tyr Ala Ser Trp Tyr Pro
65 70 75 80
Val Val Ile Asp Ala Ser Thr
85

<210> 278
<211> 5

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed consensus sequence

<400> 278
Ser Gly Gly Glu Trp
 1   5

<210> 279
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed consensus sequence

<400> 279
Gly Tyr Ile Val Glu Tyr Arg Glu Lys
 1   5

<210> 280
<211> 96
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 10 domain
      polypeptide

<400> 280
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Tyr Tyr
            20   25   30
Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Lys Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Val Thr Gly Arg Gly Asp
65   70   75   80
Ser Pro Ala Ser Ser Lys Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile
                85   90   95

<210> 281
<211> 91
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 08 domain
      polypeptide

<400> 281
Ala Val Pro Pro Pro Thr Asp Leu Arg Phe Thr Asn Ile Gly Pro Asp
 1   5   10   15
Thr Met Arg Val Thr Trp Ala Pro Pro Pro Ser Ile Asp Leu Thr Asn
            20   25   30
Phe Leu Val Arg Tyr Ser Pro Val Lys Asn Glu Glu Asp Val Ala Glu
        35   40   45
Leu Ser Ile Ser Pro Ser Asp Asn Ala Val Val Leu Thr Asn Leu Leu
    50   55   60
Pro Gly Thr Glu Tyr Val Val Ser Val Ser Ser Val Tyr Glu Gln His
65   70   75   80

Glu Ser Thr Pro Leu Arg Gly Arg Gln Lys Thr
85 90

<210> 282
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 13 domain
polypeptide

<400> 282
Pro Ala Pro Thr Asp Leu Lys Phe Thr Gln Val Thr Pro Thr Ser Leu
1 5 10 15
Ser Ala Gln Trp Thr Pro Pro Asn Val Gln Leu Thr Gly Tyr Arg Val
20 25 30
Arg Val Thr Pro Lys Glu Lys Thr Gly Pro Met Lys Glu Ile Asn Leu
35 40 45
Ala Pro Asp Ser Ser Ser Val Val Val Ser Gly Leu Met Val Ala Thr
50 55 60
Lys Tyr Glu Val Ser Val Tyr Ala Leu Lys Asp Thr Leu Thr Ser Arg
65 70 75 80
Pro Ala Gln Gly Val Val Thr Thr
85

<210> 283
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 04 domain
polypeptide

<400> 283
Pro Ser Pro Arg Asp Leu Gln Phe Val Glu Val Thr Asp Val Lys Val
1 5 10 15
Thr Ile Met Trp Thr Pro Pro Glu Ser Ala Val Thr Gly Tyr Arg Val
20 25 30
Asp Val Ile Pro Val Asn Leu Pro Gly Glu His Gly Gln Arg Leu Pro
35 40 45
Ile Ser Arg Asn Thr Phe Ala Glu Val Thr Gly Leu Ser Pro Gly Val
50 55 60
Thr Tyr Tyr Phe Lys Val Phe Ala Val Ser His Gly Arg Glu Ser Lys
65 70 75 80
Pro Leu Thr Ala Gln Gln Thr Thr
85

<210> 284
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 05 domain
polypeptide

<400> 284
Lys Leu Asp Ala Pro Thr Asn Leu Gln Phe Val Asn Glu Thr Asp Ser
1 5 10 15
Thr Val Leu Val Arg Trp Thr Pro Pro Arg Ala Gln Ile Thr Gly Tyr
20 25 30
Arg Leu Thr Val Gly Leu Thr Arg Arg Gly Gln Pro Arg Gln Tyr Asn
35 40 45

Val Gly Pro Ser Val Ser Lys Tyr Pro Leu Arg Asn Leu Gln Pro Ala
50 55 60
Ser Glu Tyr Thr Val Ser Leu Val Ala Ile Lys Gly Asn Gln Glu Ser
65 70 75 80
Pro Lys Ala Thr Gly Val Phe Thr
85

<210> 285
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 09 domain
polypeptide

<400> 285
Gly Leu Asp Ser Pro Thr Gly Ile Asp Phe Ser Asp Ile Thr Ala Asn
1 5 10 15
Ser Phe Thr Val His Trp Ile Ala Pro Arg Ala Thr Ile Thr Gly Tyr
20 25 30
Arg Ile Arg His His Pro Glu His Phe Ser Gly Arg Pro Arg Glu Asp
35 40 45
Arg Val Pro His Ser Arg Asn Ser Ile Thr Leu Thr Asn Leu Thr Pro
50 55 60
Gly Thr Glu Tyr Val Val Ser Ile Val Ala Leu Asn Gly Arg Glu Glu
65 70 75 80
Ser Pro Leu Leu Ile Gly Gln Gln Ser
85

<210> 286
<211> 90
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 15 domain
polypeptide

<400> 286
Ala Ile Asp Ala Pro Ser Asn Leu Arg Phe Leu Ala Thr Thr Pro Asn
1 5 10 15
Ser Leu Leu Val Ser Trp Gln Pro Pro Arg Ala Arg Ile Thr Gly Tyr
20 25 30
Ile Ile Lys Tyr Glu Lys Pro Gly Ser Pro Pro Arg Glu Val Val Pro
35 40 45
Arg Pro Arg Pro Gly Val Thr Glu Ala Thr Ile Thr Gly Leu Glu Pro
50 55 60
Gly Thr Glu Tyr Thr Ile Tyr Val Ile Ala Leu Lys Asn Asn Gln Lys
65 70 75 80
Ser Glu Pro Leu Ile Gly Arg Lys Lys Thr
85 90

<210> 287
<211> 90
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 12 domain
polypeptide

<400> 287
Asn Ile Asp Arg Pro Lys Gly Leu Ala Phe Thr Asp Val Asp Val Asp
1 5 10 15

Ser Ile Lys Ile Ala Trp Glu Ser Pro Gln Gly Gln Val Ser Arg Tyr
20 25 30
Arg Val Thr Tyr Ser Ser Pro Glu Asp Gly Ile His Glu Leu Phe Pro
35 40 45
Ala Pro Asp Gly Glu Glu Asp Thr Ala Glu Leu Gln Gly Leu Arg Pro
50 55 60
Gly Ser Glu Tyr Thr Val Ser Val Val Ala Leu His Asp Asp Met Glu
65 70 75 80
Ser Gln Pro Leu Ile Gly Thr Gln Ser Thr
85 90

<210> 288
<211> 89
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 02 domain
polypeptide

<400> 288
Pro Leu Val Ala Thr Ser Glu Ser Val Thr Glu Ile Thr Ala Ser Ser
1 5 10 15
Phe Val Val Ser Trp Val Ser Ala Ser Asp Thr Val Ser Gly Phe Arg
20 25 30
Val Glu Tyr Glu Leu Ser Glu Glu Gly Asp Glu Pro Gln Tyr Leu Asp
35 40 45
Leu Pro Ser Thr Ala Thr Ser Val Asn Ile Pro Asp Leu Leu Pro Gly
50 55 60
Arg Lys Tyr Ile Val Asn Val Tyr Gln Ile Ser Glu Asp Gly Glu Gln
65 70 75 80
Ser Leu Ile Leu Ser Thr Ser Gln Thr
85

<210> 289
<211> 88
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 03 domain
polypeptide

<400> 289
Pro Asp Ala Pro Pro Asp Pro Thr Val Asp Gln Val Asp Asp Thr Ser
1 5 10 15
Ile Val Val Arg Trp Ser Arg Pro Gln Ala Pro Ile Thr Gly Tyr Arg
20 25 30
Ile Val Tyr Ser Pro Ser Val Glu Gly Ser Ser Thr Glu Leu Asn Leu
35 40 45
Pro Glu Thr Ala Asn Ser Val Thr Leu Ser Asp Leu Gln Pro Gly Val
50 55 60
Gln Tyr Asn Ile Thr Ile Tyr Ala Val Glu Glu Asn Gln Glu Ser Thr
65 70 75 80
Pro Val Val Ile Gln Gln Glu Thr
85

<210> 290
<211> 90
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 11 domain
polypeptide

<400> 290
Glu Ile Asp Lys Pro Ser Gln Met Gln Val Thr Asp Val Gln Asp Asn
 1   5   10   15
Ser Ile Ser Val Lys Trp Leu Pro Ser Ser Ser Pro Val Thr Gly Tyr
            20   25   30
Arg Val Thr Thr Thr Pro Lys Asn Gly Pro Gly Pro Thr Lys Thr Lys
        35   40   45
Thr Ala Gly Pro Asp Gln Thr Glu Met Thr Ile Glu Gly Leu Gln Pro
    50   55   60
Thr Val Glu Tyr Val Val Ser Val Tyr Ala Gln Asn Pro Ser Gly Glu
65   70   75   80
Ser Gln Pro Leu Val Gln Thr Ala Val Thr
                85   90

<210> 291
<211> 86
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 06 domain
      polypeptide

<400> 291
Pro Gly Ser Ser Ile Pro Pro Tyr Asn Thr Glu Val Thr Glu Thr Thr
 1   5   10   15
Ile Val Ile Thr Trp Thr Pro Ala Pro Arg Ile Gly Phe Lys Leu Gly
            20   25   30
Val Arg Pro Ser Gln Gly Gly Glu Ala Pro Arg Glu Val Thr Ser Asp
        35   40   45
Ser Gly Ser Ile Val Val Ser Gly Leu Thr Pro Gly Val Glu Tyr Val
    50   55   60
Tyr Thr Ile Gln Val Leu Arg Asp Gly Gln Glu Arg Asp Ala Pro Ile
65   70   75   80
Val Asn Lys Val Val Thr
                85

<210> 292
<211> 93
<212> PRT
<213> Homo sapiens

<220>
<223> Fibronectin Type III repeat 01 domain
      polypeptide

<400> 292
Ser Ser Ser Gly Pro Val Glu Val Phe Ile Thr Glu Thr Pro Ser Gln
 1   5   10   15
Pro Asn Ser His Pro Ile Gln Trp Asn Ala Pro Gln Pro Ser His Ile
            20   25   30
Ser Lys Tyr Ile Leu Arg Trp Arg Pro Lys Asn Ser Val Gly Arg Trp
        35   40   45
Lys Glu Ala Thr Ile Pro Gly His Leu Asn Ser Tyr Thr Ile Lys Gly
    50   55   60
Leu Lys Pro Gly Val Val Tyr Glu Gly Gln Leu Ile Ser Ile Gln Gln
65   70   75   80
Tyr Gly His Gln Glu Val Thr Arg Phe Asp Phe Thr Thr
                85   90

<210> 293
<211> 538
<212> PRT

<213> Mus musculus

<400> 293

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Met Arg Gly Ser Gly Pro Arg Gly Ala Gly His Arg Arg Thr Gln Gly
 1               5                  10                  15
Arg Gly Gly Gly Asp Asp Thr Pro Arg Val Pro Ala Ser Leu Ala Gly
            20                  25                  30
Cys Tyr Ser Ala Pro Leu Lys Gly Pro Leu Trp Thr Cys Leu Leu Leu
        35                  40                  45
Cys Ala Ala Leu Arg Thr Leu Leu Ala Ser Pro Ser Asn Glu Val Asn
    50                  55                  60
Leu Leu Asp Ser Arg Thr Val Met Gly Asp Leu Gly Trp Ile Ala Phe
65                  70                  75                  80
Pro Lys Asn Gly Trp Glu Glu Ile Gly Glu Val Asp Glu Asn Tyr Ala
                85                  90                  95
Pro Ile His Thr Tyr Gln Val Cys Lys Val Met Glu Gln Asn Gln Asn
            100                 105                 110
Asn Trp Leu Leu Thr Ser Trp Ile Ser Asn Glu Gly Ala Ser Arg Ile
        115                 120                 125
Phe Ile Glu Leu Lys Phe Thr Leu Arg Asp Trp Gln Gln Pro Phe Leu
    130                 135                 140
Glu Asp Trp Gly Thr Cys Lys Glu Thr Phe Asn Met Tyr Tyr Phe Glu
145                 150                 155                 160
Ser Asp Asp Glu Asn Gly Arg Ser Ile Lys Glu Asn Gln Tyr Ile Lys
                165                 170                 175
Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Glu Leu Asp Leu Gly
            180                 185                 190
Asp Arg Val Met Lys Leu Asn Thr Glu Val Arg Asp Val Gly Pro Leu
        195                 200                 205
Ser Lys Lys Gly Phe Tyr Leu Ala Phe Gln Asp Val Gly Ala Cys Ile
    210                 215                 220
Ala Leu Val Ser Val Arg Val Tyr Tyr Lys Lys Cys Pro Ser Val Val
225                 230                 235                 240
Arg His Leu Ala Ile Phe Pro Asp Thr Ile Thr Gly Ala Asp Ser Ser
                245                 250                 255
Gln Leu Leu Glu Val Ser Gly Ser Cys Val Asn His Ser Val Thr Asp
            260                 265                 270
Asp Pro Pro Lys Met His Cys Ser Ala Glu Gly Glu Trp Leu Val Pro
        275                 280                 285
Ile Gly Lys Cys Met Cys Lys Ala Gly Tyr Glu Glu Lys Asn Gly Thr
    290                 295                 300
Cys Gln Val Cys Arg Pro Gly Phe Phe Lys Ala Ser Pro His Ser Gln
305                 310                 315                 320
Thr Cys Ser Lys Cys Pro Pro His Ser Tyr Ser His Glu Glu Ala Ser
                325                 330                 335
Thr Ser Cys Val Cys Glu Lys Asp Tyr Phe Arg Lys Asp Ser Asp Pro
            340                 345                 350
Pro Thr Met Ala Cys Thr Thr Pro Ser Pro Val Thr Asn Val Lys Lys
        355                 360                 365
Gly Lys Ile Ala Lys Asn Ser Ile Ser Leu Ser Trp Gln Glu Pro Asp
    370                 375                 380
Arg Pro Asn Gly Ile Ile Leu Glu Tyr Glu Ile Lys Tyr Phe Glu Lys
385                 390                 395                 400
Asp Gln Glu Thr Ser Tyr Thr Ile Ile Lys Ser Lys Glu Thr Ser Ile
                405                 410                 415
Thr Ala Glu Gly Leu Lys Pro Ala Ser Val Tyr Val Phe Gln Ile Arg
            420                 425                 430
Ala Arg Thr Ala Ala Gly Tyr Gly Val Phe Ser Arg Arg Phe Glu Phe
        435                 440                 445
Glu Thr Thr Pro Val Ser Val Ala Ala Ser Asn Asp Gln Ser Gln Ile
    450                 455                 460
Pro Ile Ile Ala Val Ser Val Thr Val Gly Val Ile Leu Leu Ala Val
465                 470                 475                 480
Met Ile Gly Phe Leu Leu Ser Gly Arg Arg Cys Gly Tyr Ser Lys Ala
                485                 490                 495
Lys Gln Asp Pro Glu Glu Glu Lys Met His Phe His Asn Gly His Ser
            500                 505                 510
Lys Gln Ile Val Gln Asn Lys Ser Lys Arg Leu Tyr Tyr Asp Asp Asp
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515 520 525
Cys Cys Ser Gly Gln Ala Ile Cys Ser Asn
530 535

<210> 294
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 294
Thr Leu Asp Ile Val Asp
1 5

<210> 295
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 295
Asp Leu Tyr Tyr Ser Tyr
1 5

<210> 296
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 296
Asp Val Leu Ile Val Tyr
1 5

<210> 297
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 297
His Asn Glu Ile Phe Phe Lys Ile Lys Thr Arg Leu Glu Ala Lys Arg
1 5 10 15

<210> 298
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 298
Tyr Lys Glu Ile His Phe Lys Val Lys Thr Lys Leu Glu Ser Gln Arg
1 5 10 15

<210> 299
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 299
His Asn Val Val Gln Phe Lys Ile Lys Thr Lys Leu Lys Ala Glu Arg
 1   5   10   15

<210> 300
<211> 96
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 300
Asp Ser Glu Val Asn Gln Glu Ala Lys Pro Glu Val Lys Pro Glu Val
 1   5   10   15
Lys Pro Glu Thr His Ile Asn Leu Lys Val Ser Asp Gly Ser Ser Glu
            20   25   30
Ile Phe Phe Lys Ile Lys Lys Thr Thr Pro Leu Arg Arg Leu Met Glu
        35   40   45
Ala Phe Ala Lys Arg Gln Gly Lys Glu Met Asp Ser Leu Arg Phe Leu
    50   55   60
Tyr Asp Gly Ile Arg Ile Gln Ala Asp Gln Thr Pro Glu Asp Leu Asp
65   70   75   80
Met Glu Asp Asn Asp Ile Ile Glu Ala His Arg Glu Gln Ile Gly Gly
                85   90   95

<210> 301
<211> 97
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 301
Met Ser Asp Gln Glu Ala Lys Pro Ser Thr Glu Asp Leu Gly Asp Lys
 1   5   10   15
Lys Glu Gly Glu Tyr Ile Lys Leu Lys Val Ile Gly Gln Asp Ser Ser
            20   25   30
Glu Ile His Phe Lys Val Lys Met Thr Thr His Leu Lys Lys Leu Met
        35   40   45
Glu Ser Tyr Ala Gln Arg Gln Gly Val Pro Met Asn Ser Leu Arg Phe
    50   55   60
Leu Phe Glu Gly Gln Arg Ile Ala Asp Asn His Thr Pro Lys Glu Leu
65   70   75   80
Gly Met Glu Glu Glu Asp Val Ile Glu Val Tyr Gln Glu Gln Thr Gly
                85   90   95
Gly

<210> 302
<211> 93
<212> PRT
<213> Artificial Sequence

<220>

<223> synthetic construct

<400> 302
Met Ala Asp Glu Lys Pro Lys Glu Gly Val Lys Thr Glu Asn Asn Asp
 1   5   10   15
His Ile Asn Leu Lys Val Ala Gly Gln Asp Gly Ser Val Val Gln Phe
            20   25   30
Lys Ile Lys Arg His Thr Pro Leu Ser Lys Leu Met Glu Ala Tyr Ser
        35   40   45
Glu Arg Gln Gly Leu Ser Met Arg Gln Ile Arg Phe Arg Phe Asp Gly
    50   55   60
Gln Pro Ile Asn Glu Thr Asp Thr Pro Ala Gln Leu Glu Met Glu Asp
65   70   75   80
Glu Asp Thr Ile Asp Val Phe Gln Gln Gln Thr Gly Gly
                85   90

<210> 303
<211> 13
<212> PRT
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<220>
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<400> 303
Tyr Arg Tyr Tyr Tyr Tyr Tyr Asp Leu Tyr Tyr Ser Tyr
 1   5   10

<210> 304
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 304
Tyr Arg Tyr Tyr Tyr Tyr Tyr Asp Ile Tyr Tyr Ala Val
 1   5   10

<210> 305
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 305
Tyr Arg Tyr Tyr Tyr Glu Glu Phe Phe Asp Tyr Ala Val
 1   5   10

<210> 306
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 306
Tyr Arg Phe Tyr Tyr Glu Glu Phe Phe Asp Tyr Ala Tyr
 1   5   10

<210> 307
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
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<400> 307
Tyr Arg Tyr Tyr Tyr Asp Asp Phe Leu Asp Phe Ala Phe
 1   5   10

<210> 308
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 308
Tyr Arg Tyr Tyr Tyr Tyr Tyr Asn Ile Phe Phe Ala Asp
 1   5   10

<210> 309
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 309
His His Tyr Phe Tyr Asp Asp Asp Leu Tyr Phe Ala Phe
 1   5   10

<210> 310
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
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<400> 310
His Gly Tyr Tyr His Tyr Asp Asp Ile Tyr Tyr Ala Leu
 1   5   10

<210> 311
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
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<400> 311
His Ala Tyr Tyr His Tyr Asp Asp Ile Phe Leu Ala Asp
 1   5   10

<210> 312
<211> 13

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 312
His Glu Tyr Tyr Tyr His Glu Asp Ile Phe Tyr Ala Val
 1   5   10

<210> 313
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
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<400> 313
His Glu Ala Tyr His Tyr His Asp Ile Phe Tyr Ala Val
 1   5   10

<210> 314
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 314
His Glu Thr Tyr Asp Tyr Tyr Asp Ile Tyr Ile Ala Tyr
 1   5   10

<210> 315
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 315
Tyr Glu Ile Phe Tyr His Asp Asp Ile Tyr Ile Ser Asp
 1   5   10

<210> 316
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 316
His Ala Tyr Tyr Tyr Tyr Asp Asp Leu Tyr Val Ser Asp
 1   5   10

<210> 317
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 317
His Ala Phe Tyr Tyr Tyr Asp Asp Ile Tyr Tyr Ala Tyr
 1   5   10

<210> 318
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 318
His Asp His Tyr Tyr Tyr Asp Asp Ile Tyr Val Ala Ile
 1   5   10

<210> 319
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 319
His Ala Tyr Phe Tyr Ser Tyr Tyr Asp Ile Phe Tyr Ser Asp
 1   5   10

<210> 320
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 320
Tyr Arg Tyr Phe Tyr Ser Tyr Tyr Asp Ile Phe Tyr Ala Asp
 1   5   10

<210> 321
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 321
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Ser Tyr Tyr Asp
 1   5   10   15
Leu Tyr Tyr Ser
            20

<210> 322
<211> 21
<212> PRT
<213> Artificial Sequence

<220>

<223> synthetic construct

<400> 322
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Trp Thr Tyr Glu Trp
 1   5   10   15
Gly Tyr Met Tyr Asp
            20

<210> 323
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 323
Tyr Ser Val Trp Asp Val Ala Gly Tyr Ser Ser Tyr Tyr Pro Tyr Tyr
 1   5   10   15
Gly Leu Tyr Tyr Ser Gln
            20

<210> 324
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 324
Pro Trp Ala Tyr Ser Gln Ser Val Ala Gly Ser Ser Ser Tyr Tyr Gly
 1   5   10   15
Thr Pro Trp Gly Glu Gly Trp Tyr Ser Trp
            20   25

<210> 325
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 325
Pro Ala Asn Ser Val Ser Gly Ser Ser Ser Tyr Glu Trp Tyr Gly Trp
 1   5   10   15
Gly Trp Thr Tyr
            20

<210> 326
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 326
Ser Ser Ser Ser Val Ser Ser Tyr Ser Ser Tyr Trp Glu Phe Glu Tyr
 1   5   10   15
Gly Tyr Trp Ser Tyr
            20

<210> 327
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 327
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Gln Glu Trp Ser Tyr
 1   5   10   15
Gly Trp Ser Ser Glu
            20

<210> 328
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 328
Tyr Val Gly Tyr Gly Ser Ser Val Ala Gly Ser Ser Ser Tyr Tyr Tyr
 1   5   10   15
Glu Gly Asp Asp Leu Tyr Ser Ser Met
            20   25

<210> 329
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 329
Gly Tyr Trp Phe Ile Asp Gly Tyr Ser Ser Tyr Tyr Asp Asn Tyr Gly
 1   5   10   15
Trp

<210> 330
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 330
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Tyr Asp Tyr Tyr
 1   5   10   15
Tyr Gly Met Tyr Trp Ser Gln
            20

<210> 331
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 331
Tyr Gln Asn Ser Ser Trp Ser Gly Val Ser Gly Ser Ser Ser Leu Tyr
 1   5   10   15
Ser Glu Tyr Trp Gly Glu Tyr Tyr Ser
            20   25

<210> 332
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 332
Ser Ser Ser Ser Val Ser Gly Tyr Ser Ser Tyr Thr Gly Phe Tyr Asp
 1   5   10   15
Tyr Gly Phe Trp Ser Tyr Trp
            20

<210> 333
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 333
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Met Glu Trp Asp
 1   5   10   15
Tyr Tyr Tyr Ser Glu
            20

<210> 334
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 334
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Thr Trp Leu Tyr Asp Trp
 1   5   10   15
Gly Tyr Met Trp Tyr
            20

<210> 335
<211> 26
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 335
Gly Tyr Gly Tyr Gln Pro Trp Tyr Val Asp Gly Ser Ser Tyr Tyr Thr
 1   5   10   15
Phe Ile Ser Ala Ser Glu Tyr Tyr Tyr Met
            20   25

<210> 336
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 336
Tyr Gly Arg Asn Tyr Thr Met Asp Val Ser Ser Ser Tyr Ser Val Val
 1   5   10   15
Tyr Glu Asp Trp Gly Ser Tyr Trp Ser
            20   25

<210> 337
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 337
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Ile Gln Tyr Tyr Asp
 1   5   10   15
Leu Tyr Tyr Ala
            20

<210> 338
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 338
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Leu Pro Tyr Tyr Asp
 1   5   10   15
Ile Tyr Tyr Ser Tyr
            20

<210> 339
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 339
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Phe Tyr Asp Val Gly Trp
 1   5   10   15
Gly Tyr Tyr Ser Ile
            20

<210> 340
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 340
Gly Tyr Tyr Met Asn Tyr Tyr Met Val Asp Gly Ser Ser Ser Tyr Trp
 1   5   10   15
Tyr Asp Glu Tyr Gly Gln Tyr Trp Trp Ser Glu
            20   25

<210> 341
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 341
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Thr Met Tyr Ser Tyr Gly
 1   5   10   15
Trp Gly Glu Tyr Tyr Tyr
            20

<210> 342
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 342
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Ser Glu Tyr Tyr
 1   5   10   15
Tyr Trp Trp Ser Glu
            20

<210> 343
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 343
Ala Tyr Ala Ser Ser Gln Ser Thr Val His Gly Ser Tyr Ser Tyr Trp
 1   5   10   15
Glu Tyr Gln Trp Gly His Met Tyr
            20

<210> 344
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 344
Gly Tyr Ala Tyr Tyr Gly Glu Ser Val Trp Gly Ser Ser Ser Asn Tyr
 1   5   10   15
Gly Asp Asn Gln Ile Glu Tyr Tyr Phe
            20   25

<210> 345

<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 345
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Gln Glu Trp Leu Tyr
 1   5   10   15
Gly Trp Tyr Ser Thr
            20

<210> 346
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 346
Ser Trp Gly Glu Tyr Gly Tyr Ser Val Asp Gly Ser Ser Ser Tyr Tyr
 1   5   10   15
Ser Trp Tyr Tyr Gly Trp Tyr Ser Glu
            20   25

<210> 347
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 347
Ala Arg Gln Gly His Tyr Glu Asp Val Gln Ser Ser Ser Ser Tyr Arg
 1   5   10   15
His Trp Glu Phe Gly Tyr Trp Ser Gln
            20   25

<210> 348
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 348
Tyr Glu Ser Glu Val Ser Gly Ser Ser Ser Tyr Trp Val Tyr Ser Trp
 1   5   10   15
Gly Ser Tyr Trp Lys
            20

<210> 349
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 349

Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Tyr Asp Glu Ala
1 5 10 15
Tyr Glu Trp Tyr Tyr Ser Trp
20

<210> 350
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 350
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Trp Tyr Met Trp Asp
1 5 10 15
Gly Tyr Val Ser Ser Trp Tyr
20

<210> 351
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 351
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Glu Gly Phe Glu Glu
1 5 10 15
Tyr Gly Trp Tyr Ser Tyr Tyr
20

<210> 352
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 352
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Trp Glu Trp Val Pro
1 5 10 15
Trp Gly Tyr Tyr Ser Tyr
20

<210> 353
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 353
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Ser Glu Glu Trp
1 5 10 15
Gly Tyr Tyr Ser Tyr
20

<210> 354
<211> 21

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 354
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Trp Ala Asp Trp
 1   5   10   15
Tyr Tyr Trp Ser Val
            20

<210> 355
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 355
Tyr Glu Ser Tyr Gln Tyr Val Trp Gly Ser Ser Ser Glu His Gly Tyr
 1   5   10   15
Trp Tyr Trp

<210> 356
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 356
Asp Arg Tyr Tyr Val Ser Gly Ser Ser Ser Glu Tyr Glu Ser Asn Tyr
 1   5   10   15
Tyr Tyr Lys Trp
            20

<210> 357
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 357
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Leu Thr Asp Tyr Gly Tyr
 1   5   10   15
Ala Tyr Tyr Ser Tyr
            20

<210> 358
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 358
Trp Ser Arg Tyr Trp Gly Trp Val Ser Gly Ser Ser Ser Ser Ser Trp

 1   5   10   15
His Pro Gln Ser Pro Tyr Tyr
            20

<210> 359
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 359
Ser Ser Ser Ser Val Ser Gly Ser Ser Tyr Thr Trp Tyr Pro Gln Trp
 1   5   10   15
Asp Gly Tyr Ser Val Tyr Ala
            20

<210> 360
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 360
Tyr Gln Thr Arg Leu Tyr Pro Tyr Val Ser Ser Ser Ser Ser Val Glu
 1   5   10   15
Glu Phe Asp Trp Gly Tyr Ser Trp Ser
            20   25

<210> 361
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 361
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Trp Phe Gln Tyr His Trp
 1   5   10   15
Gly Ser Tyr Tyr Tyr
            20

<210> 362
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 362
Trp Lys Gln Gly Trp Thr Met Gly Val Asp Gly Tyr Ser Ser Trp Gly
 1   5   10   15
Thr Val Met Asp Leu Tyr Tyr Tyr Tyr
            20   25

<210> 363
<211> 25
<212> PRT

<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 363
Glu Gly Asp Tyr Tyr Ser Val Tyr Gly Ser Ser Ser Trp Met Ile Ser
 1   5   10   15
Glu Tyr Trp Gly Tyr His Trp Ser Asn
            20   25

<210> 364
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 364
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Trp Tyr Pro Phe Ser Glu
 1   5   10   15
Tyr Gly Trp Ala Ser Leu
            20

<210> 365
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 365
Ser Ser Ser Ser Val Ser Gly Tyr Tyr Ser Tyr Phe Ala Tyr Tyr Asp
 1   5   10   15
Tyr Tyr Tyr Ser Tyr
            20

<210> 366
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 366
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Phe Lys Glu Asp Trp
 1   5   10   15
Tyr Tyr Tyr Ser Tyr
            20

<210> 367
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 367
Tyr Phe Gly Trp Gly Val Ser Gly Ser Ser Ser Tyr Gly Ser Tyr Tyr
 1   5   10   15

Gly Val Pro Phe Tyr
            20

<210> 368
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 368
Ile Met Glu Ser Gly Val Ser Gly Ser Ser Ser Tyr His Leu Phe Asp
 1   5   10   15
Pro Val Tyr Tyr Ser Asp
            20

<210> 369
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 369
Ser Ser Ser Ser Val Ser Gly Ser Ser Tyr Tyr His Ser Tyr Glu Tyr
 1   5   10   15
Ser Ser Leu Tyr Tyr Ser Trp
            20

<210> 370
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 370
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr His Trp Ser Pro Phe
 1   5   10   15
Tyr Tyr Trp Ser Tyr
            20

<210> 371
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 371
Gly Tyr Trp Tyr Val Ser Tyr Gly Tyr Ser Tyr Pro Trp Tyr Asp Asp
 1   5   10   15
Thr Tyr Tyr

<210> 372
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 372
Tyr Gln Gly Gly Ser Tyr Trp Val Ser Gly Ser Ser Ser Tyr Gln His
 1   5   10   15
Pro Gln Met Gly Ser Thr Tyr Tyr
            20

<210> 373
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 373
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Gln Ser Phe Gly Tyr
 1   5   10   15
Asn Glu Tyr Trp Ser Ser Gly
            20

<210> 374
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
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<400> 374
Gly Tyr Asp Glu Ser Val Met Gly Ser Ser Ser Tyr Arg Glu Tyr Asp
 1   5   10   15
Gly Leu Tyr Tyr Ser Tyr
            20

<210> 375
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 375
Val Trp Gln Glu Trp Ala Tyr Tyr Val His Gly Ser Tyr Ser Tyr Ser
 1   5   10   15
Asp Trp Gly Tyr Ala Tyr Tyr Glu Trp
            20   25

<210> 376
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 376
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Thr Asp Trp Gly Ser
 1   5   10   15
Glu Met Leu Ser Trp Tyr

20

<210> 377
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 377
Gln Tyr His Tyr Asp Ser Asp Ser Val Ser Gly Tyr Ser Ser Tyr Val
1 5 10 15
Tyr His Asp Trp Gly Ile Glu Tyr Tyr
20 25

<210> 378
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 378
Ser Ser Ser Gly Tyr Val Gln Gly Ser Ser Ser Tyr Trp Ala Gly Tyr
1 5 10 15
Gly Tyr Tyr Tyr Ser Tyr
20

<210> 379
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 379
Ser Ser Ser Ser Val Ser Gly Ser Tyr Ser Tyr Trp Tyr Gly Tyr Gly
1 5 10 15
Tyr Tyr Tyr Ser His
20

<210> 380
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 380
Tyr Gly Ser Ser Phe Tyr His Val Ser Gly Ser Ser Ser Tyr Tyr Ala
1 5 10 15
Phe Thr Tyr Gly Tyr Tyr Ser Tyr
20

<210> 381
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 381
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Asp Ser Met Tyr
 1   5   10   15
Tyr Trp Trp Ala Asp
            20

<210> 382
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 382
Gly Glu Gly Tyr Ser Met Val Asp Gly Ser Tyr Ser Tyr Tyr Glu Met
 1   5   10   15
Phe Ser Asp Glu Gly Trp Trp Ser Trp
            20   25

<210> 383
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 383
Ser Ser Ser Ser Val Ser Gly Ser Tyr Ser Tyr Tyr Gly Trp Glu Trp
 1   5   10   15
Asp Gly Trp Trp Ser Trp Gln
            20

<210> 384
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 384
Ser Gln Phe Ser Gly Val Ser Gly Ser Tyr Ser Tyr Tyr His Glu His
 1   5   10   15
Trp Gly Tyr Tyr Ser Tyr
            20

<210> 385
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 385
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Gln Glu Tyr Trp
 1   5   10   15
Gly Tyr Trp Ser Tyr
            20

<210> 386
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 386
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Gln Tyr Ala Pro
 1   5   10   15
Tyr Gln Trp Tyr Ser Trp Gln
            20

<210> 387
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 387
Gly Ser Phe Gly Phe His Asp Pro Val Tyr Gly Ser Ser Ser Tyr Tyr
 1   5   10   15
Gln Tyr Met Asp Tyr Tyr Tyr Ser Tyr
            20   25

<210> 388
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 388
Ser Ser Ser Ser Val Ser Gly Ser Tyr Ser Tyr Tyr Ser Glu Tyr Trp
 1   5   10   15
Tyr Asp Phe Ser Trp
            20

<210> 389
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 389
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Ser Thr Tyr Trp
 1   5   10   15
Tyr Asp Trp Ser Gly
            20

<210> 390
<211> 24
<212> PRT
<213> Artificial Sequence

<220>

<223> synthetic construct

<400> 390
Asp His Gly Asp Gly Leu Tyr Asp Val His Gly Ser Ser Ser Tyr Tyr
 1   5   10   15
Ser Tyr Tyr Trp Gly Ser Tyr Tyr
            20

<210> 391
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 391
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Val Gly Asp Gly
 1   5   10   15
Tyr Tyr Trp Ser Glu
            20

<210> 392
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 392
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Trp Asp Glu Gly
 1   5   10   15
Tyr Tyr Trp Ser Ile
            20

<210> 393
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 393
Ser Ser Ser Ser Val Ser Gly Ser Ser Tyr Tyr Tyr Trp His Asp Ser
 1   5   10   15
Tyr Trp Trp Ser Val
            20

<210> 394
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 394
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Tyr Phe Tyr Asp
 1   5   10   15
Tyr Trp Met Ala Tyr
            20

<210> 395
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 395
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Tyr Ile Tyr Arg
 1   5   10   15
Asp Leu Ser Tyr Ala Glu
            20

<210> 396
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 396
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Tyr Ser Tyr Tyr
 1   5   10   15
Tyr Tyr Trp Ala Thr
            20

<210> 397
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 397
Ser Ser Ser Ser Val Ser Tyr Tyr Ser Ser Tyr Tyr Tyr Asp Tyr Tyr
 1   5   10   15
Tyr Asp Leu Tyr Tyr Ser Asn
            20

<210> 398
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 398
Ser Ser Ser Ser Val Ser Tyr Tyr Ser Thr Tyr Tyr Tyr Asp Tyr Tyr
 1   5   10   15
Tyr Asp Leu Tyr Tyr Ser Asn
            20

<210> 399
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 399
Tyr Tyr Ser Tyr Tyr Ser Tyr Ser Val Ser Tyr Tyr Tyr Ser Tyr Tyr
 1   5   10   15
Tyr Asp Tyr Tyr Tyr Asp Leu Tyr Tyr Ser Asn
            20   25

<210> 400
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 400
Ser Ser Ser Ser Val Ser Tyr Tyr Ser Ser Tyr Tyr Tyr Asp Tyr Tyr
 1   5   10   15
Tyr Asp Leu Tyr Tyr Ser Tyr
            20

<210> 401
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 401
Ser Ser Ser Ser Val Ser Ser Tyr Tyr Ser Tyr Tyr Tyr Ser His Tyr
 1   5   10   15
Tyr Tyr Tyr Ser Tyr
            20

<210> 402
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 402
Ser Ser Ser Ser Val Ser Gly Ser Lys Ser Tyr Tyr Tyr Ser Tyr Tyr
 1   5   10   15
Tyr Tyr Tyr Ser Phe
            20

<210> 403
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 403
Ser Ser Pro Ser Val Ser Gly Ser Lys Ser Tyr Tyr Tyr Ser Tyr Tyr
 1   5   10   15
Tyr Tyr Tyr Ser Tyr
            20

<210> 404
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 404
Ser Ser Ser Ser Val Ser Ser Tyr Tyr Ser Tyr Tyr Tyr Ser Tyr Tyr
 1   5   10   15
Tyr Tyr Tyr Ser Tyr
            20

<210> 405
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 405
Ser Ser Ser Ser Val Ser Gly Ser Lys Ser Tyr Tyr Tyr Ser Tyr Tyr
 1   5   10   15
Tyr Tyr Tyr Ser Tyr
            20

<210> 406
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 406
Ser Ser Ser Ser Val Ser Ser Ser Tyr Ser Tyr Tyr Tyr Ser Tyr Tyr
 1   5   10   15
Tyr Tyr Tyr Ser Tyr
            20

<210> 407
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 407
Ser Ser Ser Ser Val Ser Pro Tyr Tyr Ser Tyr Tyr Tyr Ser Tyr Tyr
 1   5   10   15
Tyr Tyr Tyr Ser Tyr
            20

<210> 408
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 408
Ser Ser Ser Ser Val Tyr Gly Ser Lys Ser Tyr Tyr Tyr Ser Tyr Tyr
 1   5   10   15
Tyr Tyr Tyr Ser Tyr
            20

<210> 409
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 409
Ser Ser Ser Tyr Ser Val Ser Ser Ser Tyr Ser Tyr Tyr Tyr Ser Tyr
 1   5   10   15
Tyr Tyr Tyr Tyr Ser Tyr
            20

<210> 410
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 410
Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Tyr Ser Tyr Tyr
 1   5   10   15
Tyr Ser Tyr Ser Tyr
            20

<210> 411
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 411
Ser Tyr Ser Ser Ser Ser Val Ser Gly Ser Ser Ser Tyr Tyr Tyr Ser
 1   5   10   15
Tyr Tyr Tyr Tyr Tyr Ser Tyr
            20

<210> 412
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 412
Tyr Tyr Ser Tyr Tyr Ser Tyr Ser Val Ser Tyr Tyr Tyr Ser Tyr Ser
 1   5   10   15
Ser Tyr Ser Ser Ser Ser Tyr
            20

<210> 413

<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 413
Ser Ser Ser Tyr Val Ser Gly Ser Lys Ser Tyr Tyr Ser Ser Ser Tyr
 1   5   10   15
Tyr Ser Tyr Ser Tyr
            20

<210> 414
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 414
Ser Ser Ser Ser Val Ser Gly Ser Tyr Ser Tyr Tyr Ser Ser Tyr Tyr
 1   5   10   15
Tyr Ser Tyr Ser Tyr
            20

<210> 415
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 415
Ser Ser Ser Ser Ser Tyr Val Ser Ser Tyr Tyr Ser Tyr Tyr Ser Tyr
 1   5   10   15
Tyr Tyr Tyr Tyr Tyr Ser Tyr
            20

<210> 416
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 416
His His Tyr Phe Tyr Asp Asp Asp Leu Tyr Phe Ala Phe
 1   5   10

<210> 417
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 417
His Gly Tyr Tyr His Tyr Asp Asp Ile Tyr Tyr Ala Leu
 1   5   10

<210> 418
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 418
His Ala Tyr Tyr His Tyr Asp Asp Ile Phe Leu Ala Asp
 1   5   10

<210> 419
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 419
His Glu Tyr Tyr Tyr His Glu Asp Ile Phe Tyr Ala Val
 1   5   10

<210> 420
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 420
His Glu Ala Tyr His Tyr His Asp Ile Phe Tyr Ala Val
 1   5   10

<210> 421
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 421
His Glu Thr Tyr Asp Tyr Tyr Asp Ile Tyr Ile Ala Tyr
 1   5   10

<210> 422
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 422
Tyr Glu Ile Phe Tyr His Asp Asp Ile Tyr Ile Ser Asp
 1   5   10

<210> 423

<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 423
His Ala Tyr Tyr Tyr Tyr Asp Asp Leu Tyr Val Ser Asp
 1   5   10

<210> 424
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 424
His Ala Phe Tyr Tyr Tyr Asp Asp Ile Tyr Tyr Ala Tyr
 1   5   10

<210> 425
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 425
His Asp His Tyr Tyr Tyr Asp Asp Ile Tyr Val Ala Ile
 1   5   10

<210> 426
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 426
His Ala Tyr Phe Tyr Tyr Tyr Asp Ile Phe Tyr Ser Asp
 1   5   10

<210> 427
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 427
Tyr Arg Tyr Phe Tyr Tyr Tyr Asp Ile Phe Tyr Ala Asp
 1   5   10

<210> 428
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 428
Tyr Arg Tyr Tyr Tyr Tyr Tyr Asp Ile Tyr Tyr Ala Val
 1   5   10

<210> 429
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 429
Tyr Arg Tyr Tyr Tyr Glu Glu Phe Phe Asp Tyr Ala Val
 1   5   10

<210> 430
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 430
Tyr Arg Phe Tyr Tyr Glu Glu Phe Phe Asp Tyr Ala Tyr
 1   5   10

<210> 431
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 431
Tyr Arg Tyr Tyr Tyr Asp Asp Phe Leu Asp Phe Ala Phe
 1   5   10

<210> 432
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 432
Tyr Arg Tyr Tyr Tyr Tyr Tyr Asn Ile Phe Phe Ala Asp
 1   5   10

<210> 433
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 433
His Ala Tyr Phe Tyr Tyr Tyr Asp Ile Phe Tyr Ser Asp
 1   5   10

<210> 434
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 434
His Gly Tyr Tyr Tyr Tyr His Asp Ile Phe Tyr Ala Leu
 1   5   10

<210> 435
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 435
Tyr Ala Tyr Tyr His Tyr Asp Asp Ile Tyr Phe Ala Phe
 1   5   10

<210> 436
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 436
His His Tyr Tyr Tyr Tyr Asn Asp Ile Phe Phe Ala Asp
 1   5   10

<210> 437
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 437
Tyr Asp Tyr Tyr Tyr Tyr Asp Asp Ile Tyr Phe Ala Asp
 1   5   10

<210> 438
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 438
Tyr Glu Phe Tyr His Asp Asp Asp Leu Tyr Tyr Ala Phe

1 5 10

<210> 439
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 439
His Gly Tyr Tyr Tyr Tyr Asp Asp Ile Phe Val Ala Val
1 5 10

<210> 440
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 440
His Glu Tyr Tyr Tyr His Glu Asp Ile Phe Tyr Ala Val
1 5 10

<210> 441
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 441
His Ala Tyr Tyr His Tyr Asp Asp Ile Phe Leu Ala Asp
1 5 10

<210> 442
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 442
Asn Ala Tyr Tyr Tyr Tyr Asp Asp Ile Phe Val Ala Asp
1 5 10

<210> 443
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 443
His Glu Tyr Tyr Tyr His Asp Asp Ile Phe Tyr Ala Phe
1 5 10

<210> 444
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 444
Tyr Glu Ile Phe Tyr His Asp Asp Ile Tyr Ile Ser Asp
 1   5   10

<210> 445
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 445
His Asp Tyr Tyr Asn His Asp Asp Ile Phe Ile Ala Tyr
 1   5   10

<210> 446
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 446
Tyr Glu Ser Tyr Asn Tyr Asp Asp Ile Tyr Tyr Ala Val
 1   5   10

<210> 447
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 447
Tyr Glu Phe Tyr Asp Val Glu Asp Ile Tyr Val Ser Tyr
 1   5   10

<210> 448
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 448
His Ser Tyr Tyr Asp Ile Glu Asp Ile Tyr Ile Ala Asp
 1   5   10

<210> 449
<211> 97
<212> PRT

<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> VARIANT
<222> (30),(33)
<223> Xaa = Asn, Asp, His, Ile, Leu, Phe, Tyr, or Val

<220>
<221> VARIANT
<222> (31)...(31)
<223> Xaa = His, Leu, Phe, or Tyr

<220>
<221> VARIANT
<222> (41)...(46)
<223> Xaa = any amino acid except Cys and can be shown 5-6 times

<220>
<221> VARIANT
<222> (76)...(88)
<223> Xaa = any amino acid except Cys and can be shown
7-13 times

<400> 449
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Xaa Xaa Tyr
            20   25   30
Xaa Ile Thr Tyr Gly Glu Thr Gly Xaa Xaa Xaa Xaa Xaa Xaa Gln Xaa
        35   40   45
Phe Xaa Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser
    50   55   60
Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Xaa Xaa Xaa Xaa Xaa
65   70   75   80
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Pro Ile Ser Ile Asn Tyr Arg
                85   90   95
Thr

<210> 450
<211> 96
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 450
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
            20   25   30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Val Ser Asp Glu Tyr
65   70   75   80
Thr His Gly Tyr Tyr Ser Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90   95

<210> 451
<211> 95

<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 451
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
            20   25   30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Tyr Ala Gly Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Thr Gln Tyr Glu Asn
65   70   75   80
Ile Phe Val Gly Tyr Gln Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90   95

<210> 452
<211> 96
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 452
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
            20   25   30
His Ile Thr Tyr Gly Glu Thr Gly Gly Gly Ser Ser Gly Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Met Tyr Asp Gly Tyr
65   70   75   80
Glu Tyr Thr Tyr Gln Gly Thr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90   95

<210> 453
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 453
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
            20   25   30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Trp Ser Gly Tyr Gln Glu Phe
        35   40   45
Glu Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Gly Tyr Pro Tyr Val
65   70   75   80
Lys Tyr Asn Lys Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 454

<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 454
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Tyr Tyr
            20   25   30
Tyr Ile Thr Tyr Gly Glu Thr Gly Ala Ala Phe Gly Tyr Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Gly Tyr Pro Tyr Val
65   70   75   80
Lys Tyr Asn Lys Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 455
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 455
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp Phe Tyr
            20   25   30
Val Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Gly Tyr Ser Asp Ser Trp
65   70   75   80
Asn Trp Pro Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 456
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 456
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
            20   25   30
Tyr Ile Thr Tyr Gly Glu Thr Gly His Tyr Trp Tyr Tyr Gln Ala Phe
        35   40   45
Ala Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Pro Phe Ser Val Pro Val
65   70   75   80
Met Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 457
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 457
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Asp His Tyr
            20   25   30
Tyr Ile Thr Tyr Gly Glu Thr Gly His Tyr Trp Tyr Tyr Gln Ala Phe
        35   40   45
Ala Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Ser Val Leu Tyr Gly Ser
65   70   75   80
Arg Tyr Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 458
<211> 100
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> VARIANT
<222> (25)...(32)
<223> Xaa = any amino acid except Cys and can be shown
      4-8 times

<220>
<221> VARIANT
<222> (34)...(34)
<223> Xaa = any amino acid except Cys

<220>
<221> VARIANT
<222> (57)...(59)
<223> Xaa = Ser or Tyr

<220>
<221> VARIANT
<222> (79)...(91)
<223> Xaa = any amino acid except Cys and can be shown
      7-13 times

<400> 458
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
            20   25   30
Val Xaa Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro
        35   40   45
Val Gln Glu Phe Thr Val Pro Xaa Xaa Xaa Xaa Thr Ala Thr Ile Ser
    50   55   60
Gly Leu Ser Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Xaa Xaa
65   70   75   80
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser Pro Ile Ser Ile
                85   90   95
Asn Tyr Arg Thr
            100

<210> 459
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 459
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Gly Arg Trp Phe Val Glu Tyr Tyr
            20   25   30
Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Tyr Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala His Tyr Trp Ser Thr Trp
65   70   75   80
Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 460
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 460
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Asn Ser Trp Tyr Val Thr Tyr Tyr
            20   25   30
Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Tyr Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala His Tyr Trp Ser Thr Trp
65   70   75   80
Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 461
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 461
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Gly Tyr Trp Tyr Val Gln Tyr Tyr
            20   25   30
Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Tyr Asp Asp Trp Glu
65   70   75   80
Trp Ser Pro Ile Ser Ile Asn Tyr Arg Thr

85 90

<210> 462
<211> 90
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 462
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Gly Tyr Trp Phe Ile Asp Tyr Tyr
20 25 30
Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
35 40 45
Thr Val Pro Gly Tyr Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
50 55 60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Tyr Asp Asn Tyr Gly
65 70 75 80
Trp Ser Pro Ile Ser Ile Asn Tyr Arg Thr
85 90

<210> 463
<211> 98
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 463
Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Leu His Tyr Ser Gly Arg Gly Lys
20 25 30
Val His Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro
35 40 45
Val Gln Glu Phe Thr Val Pro Gly Ser Ser Ser Thr Ala Thr Ile Ser
50 55 60
Gly Leu Ser Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Tyr
65 70 75 80
Gln Ser Tyr Gly Tyr Trp Tyr Tyr Met Ser Pro Ile Ser Ile Asn Tyr
85 90 95
Arg Thr

<210> 464
<211> 98
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<220>
<221> VARIANT
<222> (5)...(5)
<223> Xaa = any amino acid except Cys

<400> 464
Val Ser Ser Val Xaa Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
1 5 10 15
Ser Leu Leu Ile Ser Trp Asp Ala Trp Ser Ser Trp Tyr Tyr Tyr Ile

```
            20                  25                  30
Ser Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val
        35                  40                  45
Gln Glu Phe Thr Val Pro Gly Ser Ser Tyr Thr Ala Thr Ile Ser Gly
    50                  55                  60
Leu Ser Pro Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Trp Tyr Tyr
65                  70                  75                  80
Asp Gln Tyr Tyr Tyr Leu Val Glu Ser Ser Pro Ile Ser Ile Asn Tyr
                85                  90                  95
Arg Thr
```

<210> 465
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 465

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Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1               5                  10                  15
Ser Leu Leu Ile Ser Trp Asp Ala Ser Ser Ser Ser Val Ser Tyr Tyr
            20                  25                  30
Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35                  40                  45
Thr Val Pro Gly Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50                  55                  60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Trp Trp Tyr Arg Tyr
65                  70                  75                  80
Tyr Tyr Tyr Ser Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85                  90
```

<210> 466
<211> 92
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 466

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Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1               5                  10                  15
Ser Leu Leu Ile Ser Trp Asp Ala Glu Tyr Phe Tyr Val Ser Tyr Tyr
            20                  25                  30
Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35                  40                  45
Thr Val Pro Gly Ser Tyr Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50                  55                  60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Asp Gln Tyr Tyr Ser
65                  70                  75                  80
Ser Tyr Gly Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85                  90
```

<210> 467
<211> 94
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic construct

<400> 467

Val Ser Ser Val Pro Thr Lys Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Ser Ser Ser Ser Val Ser Tyr Tyr
            20   25   30
Arg Ile Thr Tyr Gly Glu Thr Gly Gly Asn Ser Pro Val Gln Glu Phe
        35   40   45
Thr Val Pro Gly Ser Ser Ser Thr Ala Thr Ile Ser Gly Leu Ser Pro
    50   55   60
Gly Val Asp Tyr Thr Ile Thr Val Tyr Ala Tyr Tyr Trp Tyr Gln Tyr
65   70   75   80
Ser Tyr Tyr Gln Tyr Ser Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 468
<211> 95
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      repeat 07 domain polypeptide

<220>
<221> VARIANT
<222> (1)...(95)
<223> Xaa = any amino acid

<220>
<221> VARIANT
<222> (42)...(50)
<223> Xaa = any amino acid and can be shown 4-9 times

<220>
<221> VARIANT
<222> (82)...(87)
<223> Xaa = any amino acid and can be shown 5-6 times

<400> 468
Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro Asp Thr
 1   5   10   15
Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro Asp Ile Thr
            20   25   30
Xaa Tyr Xaa Ile Xaa Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
        35   40   45
Xaa Xaa Leu Glu Glu Val Val His Ala Asp Gln Ser Ser Cys Thr Phe
    50   55   60
Asp Asn Leu Ser Pro Gly Leu Xaa Tyr Xaa Val Xaa Val Xaa Thr Val
65   70   75   80
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Ile Ser Asp Thr Ile Ile Pro
                85   90   95

<210> 469
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      repeat 10 domain polypeptide

<220>
<221> VARIANT
<222> (1)...(93)
<223> Xaa = any amino acid

<220>

<221> VARIANT
<222> (40)...(48)
<223> Xaa = any amino acid and can be shown 4-9 times

<220>
<221> VARIANT
<222> (80)...(85)
<223> Xaa = any amino acid and can be shown 5-6 times

<400> 469
Val Ser Asp Val Pro Arg Asp Leu Glu Val Val Ala Ala Thr Pro Thr
 1   5   10   15
Ser Leu Leu Ile Ser Trp Asp Ala Pro Ala Val Thr Val Arg Xaa Tyr
            20   25   30
Xaa Ile Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
        35   40   45
Gln Glu Phe Thr Val Pro Gly Ser Lys Ser Thr Ala Thr Ile Ser Gly
    50   55   60
Leu Lys Pro Gly Val Xaa Tyr Xaa Ile Xaa Val Xaa Ala Val Xaa Xaa
65   70   75   80
Xaa Xaa Xaa Xaa Xaa Pro Ile Ser Ile Asn Tyr Arg Thr
                85   90

<210> 470
<211> 93
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed Fibronectin Type III
      repeat 14 domain polypeptide

<220>
<221> VARIANT
<222> (1)...(93)
<223> Xaa = any amino acid

<220>
<221> VARIANT
<222> (40)...(48)
<223> Xaa = any amino acid and can be shown 4-9 times

<220>
<221> VARIANT
<222> (80)...(85)
<223> Xaa = any amino acid and can be shown 5-6 times

<400> 470
Asn Val Ser Pro Pro Arg Arg Ala Arg Val Thr Asp Ala Thr Glu Thr
 1   5   10   15
Thr Ile Thr Ile Ser Trp Arg Thr Lys Thr Glu Thr Ile Thr Xaa Phe
            20   25   30
Xaa Val Xaa Ala Xaa Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
        35   40   45
Ile Gln Arg Thr Ile Lys Pro Asp Val Arg Ser Tyr Thr Ile Thr Gly
    50   55   60
Leu Gln Pro Gly Thr Xaa Tyr Xaa Ile Xaa Leu Xaa Thr Leu Xaa Xaa
65   70   75   80
Xaa Xaa Xaa Xaa Xaa Pro Val Val Ile Asp Ala Ser Thr
                85   90

<210> 471
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed linker

<400> 471
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 1   5   10

<210> 472
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed linker

<400> 472
Gly Ser Gly Ser Gly Ser Gly Ser Gly Ser
 1   5   10

<210> 473
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed linker

<400> 473
Pro Ser Thr Ser Thr Ser Thr
 1   5

<210> 474
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetically constructed linker

<400> 474
Glu Ile Asp Lys Pro Ser Gln
 1   5