SEQUENCE LISTING

<110> The Arizona Board of Regents, a body corporate acting for and on behalf of Arizona State University
Lopes, Luciana Biagini
Furnish, Elizabeth
Flynn, Charles R.
Komalavilas, Padmini
Panitch, Alyssa
Brophy, Colleen M.

<120> Methods for Treating and Limiting Fibrotic Disorders and Keloids

<130> 06-558-PCT

<150> US 60/830,279
<151> 2006-07-12

<150> US 60/849,041
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<400> 210

Xaa Leu Arg Arg Ala Thr Ala Pro Leu Pro Asp
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<400> 211

Xaa Leu Arg Arg Ala Thr Ala Pro Leu Pro Gly Leu
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<400> 212

Xaa Leu Arg Arg Ala Thr Ala Pro Leu Pro Gly Lys
1 5 10

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<400> 213

Xaa Leu Arg Arg Ala Thr Ala Pro Leu Pro Asp Leu
1 5 10

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<400> 214

Xaa Leu Arg Arg Ala Thr Ala Pro Leu Pro Asp Lys
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<400> 215

Xaa Leu Arg Arg Ala Thr Ala Pro Leu Pro Gly Leu Ser

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<400> 216

Xaa Leu Arg Arg Ala Thr Ala Pro Leu Pro Gly Leu Thr

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<400> 217

Xaa Leu Arg Arg Ala Thr Ala Pro Leu Pro Gly Lys Ser

1 5 10

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<400> 218

Xaa Leu Arg Arg Ala Thr Ala Pro Leu Pro Gly Lys Thr

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<400> 219

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<400> 226

Xaa Trp Leu Arg Arg Ala Thr Ala Pro Leu Pro Gly Lys

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<400> 228

Xaa Trp Leu Arg Arg Ala Thr Ala Pro Leu Pro Asp Lys
1 5 10

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<400> 229

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Xaa Trp Leu Arg Arg Ala Thr Ala Pro Leu Pro Gly Leu Thr
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<400> 231

Xaa Trp Leu Arg Arg Ala Thr Ala Pro Leu Pro Gly Lys
Ser
1 5 10

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<400> 232

Xaa Trp Leu Arg Arg Ala Thr Ala Pro Leu Pro Gly Lys
Thr
1 5 10

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<400> 233

Xaa Trp Leu Arg Arg Ala Thr Ala Pro Leu Pro Asp Leu

Ser
1 5 10

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<400> 234

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Thr
1 5 10

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<400> 235

Xaa Trp Leu Arg Arg Ala Thr Ala Pro Leu Pro Asp Lys
Ser
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Thr
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<400> 237

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<400> 238

Xaa Arg Arg Ala Tyr Ala Pro Leu Pro Asp
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<400> 239

Xaa Arg Arg Ala Tyr Ala Pro Leu Pro Gly Leu
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<400> 240

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<400> 241

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<400> 242

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<400> 243

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<400> 244

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<400> 245

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<400> 246

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<400> 247

Xaa Arg Arg Ala Tyr Ala Pro Leu Pro Asp Leu Ser
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<400> 248

Xaa Arg Arg Ala Tyr Ala Pro Leu Pro Asp Leu Thr
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Xaa Leu Arg Arg Ala Tyr Ala Pro Leu Pro Gly

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<400> 257

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<400> 258

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<400> 259

Xaa Leu Arg Arg Ala Tyr Ala Pro Leu Pro Gly Lys Ser
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Xaa Leu Arg Arg Ala Tyr Ala Pro Leu Pro Asp Leu Ser

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Xaa Trp Leu Arg Arg Ala Tyr Ala Pro Leu Pro Asp
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<400> 267

Xaa Trp Leu Arg Arg Ala Tyr Ala Pro Leu Pro Gly Leu

1 5 10

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<400> 268

Xaa Trp Leu Arg Arg Ala Tyr Ala Pro Leu Pro Gly Lys

1 5 10

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Xaa Trp Leu Arg Arg Ala Tyr Ala Pro Leu Pro Asp Leu

1 5 10

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1 5 10

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<400> 271

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Ser
1 5 10

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<400> 272

Xaa Trp Leu Arg Arg Ala Tyr Ala Pro Leu Pro Gly Leu
Thr
1 5 10

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<400> 273

Xaa Trp Leu Arg Arg Ala Tyr Ala Pro Leu Pro Gly Lys
Ser
1 5 10

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<400> 274

Xaa Trp Leu Arg Arg Ala Tyr Ala Pro Leu Pro Gly Lys
Thr
1 5 10

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<400> 275

Xaa Trp Leu Arg Arg Ala Tyr Ala Pro Leu Pro Asp Leu
Ser
1 5 10

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<400> 276

Xaa Trp Leu Arg Arg Ala Tyr Ala Pro Leu Pro Asp Leu
Thr
1 5 10

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<400> 277

Xaa Trp Leu Arg Arg Ala Tyr Ala Pro Leu Pro Asp Lys Ser
1 5 10

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<400> 278

Xaa Trp Leu Arg Arg Ala Tyr Ala Pro Leu Pro Asp Lys Thr
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Arg Arg Arg Arg Arg Arg Arg Arg Arg
1 5

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<220>
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<400> 280

Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Pro Pro Gln

1 5 10

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<400> 281

Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala
1 5 10

<210> 282
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<400> 282

Asp Ala Ala Thr Ala Thr Arg Gly Arg Ser Ala Ala Ser

Arg Pro Thr
1 5 10
15

Glu Arg Pro Arg Ala Pro Ala Arg Ser Ala Ser Arg Pro
Arg Arg Pro
20 25
30

Val Glu

<210> 283
<211> 27
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 283

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Leu
Ile Asn Leu
1 5 10
15

Lys Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu
20 25

<210> 284
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<212> PRT
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<220>
<223> Synthetic

<400> 284

Pro Leu Ser Ser Ile Phe Ser Arg Ile Gly Asp Pro

1 5 10

<210> 285
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<220>
<223> Synthetic

<400> 285

Ala Ala Val Ala Leu Leu Pro Ala Val Leu Leu Ala Leu
Leu Ala Pro
1 5 10
15

<210> 286
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 286

Ala Ala Val Leu Leu Pro Val Leu Leu Ala Ala Pro
1 5 10

<210> 287
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 287

Val Thr Val Leu Ala Leu Gly Ala Leu Ala Gly Val Gly
Val Gly
1 5 10

15

<210> 288
<211> 21
<212> PRT
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<220>
<223> Synthetic

<400> 288

Gly Ala Leu Phe Leu Gly Trp Leu Gly Ala Ala Gly Ser Thr Met Gly
1 5 10 15

Ala Trp Ser Gln Pro
20

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Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Leu Ile Asn Leu
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Lys Ala Leu Ala Ala Leu Ala Lys Lys Ile Leu
20 25

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<400> 290

Lys Leu Ala Leu Lys Leu Ala Leu Lys Ala Leu Lys Ala
Ala Leu Lys
1 5 10
15

Leu Ala

<210> 291
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<400> 291

Lys Glu Thr Trp Trp Glu Thr Trp Trp Thr Glu Trp Ser
Gln Pro Lys
1 5 10
15

Lys Lys Arg Lys Val
20

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Lys Ala Phe Ala Lys Leu Ala Ala Arg Leu Tyr Arg Lys
Ala Gly Cys
1 5 10
15

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<400> 293

Lys Ala Phe Ala Lys Leu Ala Ala Arg Leu Tyr Arg Ala
Ala Gly Cys
1 5 10
15

<210> 294
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<220>
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<400> 294

Ala Ala Phe Ala Lys Leu Ala Ala Arg Leu Tyr Arg Lys
Ala Gly Cys
1 5 10
15

<210> 295
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Lys Ala Phe Ala Ala Leu Ala Ala Arg Leu Tyr Arg Lys
Ala Gly Cys
1 5 10
15

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Lys Ala Phe Ala Lys Leu Ala Ala Gln Leu Tyr Arg Lys
Ala Gly Cys
1 5 10
15

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Gly Gly Gly Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg
Arg Arg
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15

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<400> 298

Met Glu Ile Pro Val Pro Val Gln Pro Ser Trp Leu Arg Arg Ala Ser
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Ala Pro Leu Pro Gly Leu Ser Ala Pro Gly Arg Leu Phe Asp Gln Arg
20 25 30

Phe Gly Glu Gly Leu Leu Glu Ala Glu Leu Ala Ala Leu Cys Pro Thr
35 40 45

Thr Leu Ala Pro Tyr Tyr Leu Arg Ala Pro Ser Val Ala Leu Pro Val
50 55 60

Ala Gln Val Pro Thr Asp Pro Gly His Phe Ser Val Leu Leu Asp Val
65 70 75 80

Lys His Phe Ser Pro Glu Glu Ile Ala Val Lys Val Val Gly Glu His
85 90 95

Val Glu Val His Ala Arg His Glu Glu Arg Pro Asp Glu His Gly Phe
100 105 110

Val Ala Arg Glu Phe His Arg Arg Tyr Arg Leu Pro Pro
Gly Val Asp
115 120 125

Pro Ala Ala Val Thr Ser Ala Leu Ser Pro Glu Gly Val
Leu Ser Ile
130 135 140

Gln Ala Ala Pro Ala Ser Ala Gln Ala Pro Pro Pro Ala
Ala Ala Lys
145 150 155
160

<210> 299
<211> 11
<212> PRT
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<220>
<223> Synthetic

<400> 299

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
1 5 10

<210> 300
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<400> 300

Trp Leu Arg Arg Ala Ser Ala Pro Leu Pro Gly Leu Lys
1 5 10

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<223> PHOSPHORYLATION

<400> 301

Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Trp Leu Arg Arg Ala
1 5 10 15

Ser Ala Pro Leu Pro Gly Leu Lys
20

<210> 302
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<400> 302

Met Glu Ile Pro Val Pro Val Gln Pro Ser Trp Leu Arg Arg Ala Xaa
1 5 10 15

Ala Pro Leu Pro Gly Leu Ser Ala Pro Gly Arg Leu Phe Asp Gln Arg
20 25 30

Phe Gly Glu Gly Leu Leu Glu Ala Glu Leu Ala Ala Leu Cys Pro Thr
35 40 45

Thr Leu Ala Pro Tyr Tyr Leu Arg Ala Pro Ser Val Ala Leu Pro Val
50 55 60

Ala Gln Val Pro Thr Asp Pro Gly His Phe Ser Val Leu Leu Asp Val
65 70 75

80

Lys His Phe Ser Pro Glu Glu Ile Ala Val Lys Val Val Gly Glu His
85 90
95

Val Glu Val His Ala Arg His Glu Glu Arg Pro Asp Glu His Gly Phe
100 105
110

Val Ala Arg Glu Phe His Arg Arg Tyr Arg Leu Pro Pro Gly Val Asp
115 120 125

Pro Ala Ala Val Thr Ser Ala Leu Ser Pro Glu Gly Val Leu Ser Ile
130 135 140

Gln Ala Ala Pro Ala Ser Ala Gln Ala Pro Pro Pro Ala Ala Ala Lys
145 150 155
160

<210> 303
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<212> PRT
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<220>
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<400> 303

Ser Trp Leu Arg Arg
1 5

<210> 304
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<220>
<223> Synthetic

<400> 304

Leu Arg Arg
1

<210> 305
<211> 6
<212> PRT
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<220>
<223> Synthetic

<400> 305

Pro Ser Trp Leu Arg Arg
1 5

<210> 306
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<212> PRT
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<220>
<223> Synthetic

<400> 306

Asn Pro Ser Trp Leu Arg Arg
1 5

<210> 307
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<212> PRT

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<220>
<223> Synthetic

<400> 307

Val Asn Pro Ser Trp Leu Arg Arg
1 5

<210> 308
<211> 9
<212> PRT
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<220>
<223> Synthetic

<400> 308

Pro Val Asn Pro Ser Trp Leu Arg Arg
1 5

<210> 309
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 309

Val Pro Val Asn Pro Ser Trp Leu Arg Arg
1 5 10

<210> 310
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Pro Val Pro Val Asn Pro Ser Trp Leu Arg Arg
1 5 10

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<400> 311

Ile Pro Val Pro Pro Val Asn Pro Ser Trp Leu Arg Arg

1 5 10

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<400> 312

Glu Ile Pro Val Pro Pro Val Asn Pro Ser Trp Leu Arg
Arg
1 5 10

<210> 313
<211> 15
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 313

Met Glu Ile Pro Val Pro Pro Val Asn Pro Ser Trp Leu Arg Arg
1 5 10 15

<210> 314
<211> 5
<212> PRT
<213> Artificial

<220>
<223> Synthetic

<400> 314

Gly Leu Ser Ala Pro
1 5

<210> 315
<211> 24
<212> PRT
<213> Artificial

<220>
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<222> (17)..(17)
<223> PHOSPHORYLATION

<400> 315

Tyr Ala Arg Ala Ala Ala Arg Gln Ala Arg Ala Trp Leu Arg Arg Ala
1 5 10 15

Ser Ala Pro Leu Pro Gly Leu Lys

<210> 316
<211> 23
<212> PRT
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phosphotyrosine analogs

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<223> X is L or K or optionally absent

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<223> X is S, T or K or optionally absent

<400> 316

Met Glu Ile Pro Val Pro Val Gln Pro Ser Trp Leu Arg Arg Ala Xaa
1 5 10

15

Ala Pro Leu Pro Xaa Xaa Xaa
20

<210> 317
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<223> X is R or A

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<223> X is R or A

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<223> X is R or A

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<222> (35)..(35)
<223> X is R or A

<400> 317

Tyr Xaa Arg Xaa Xaa Xaa Arg Gln Xaa Arg Xaa Trp Leu Arg Arg Ala
1 5 10 15

Ser Ala Pro Leu Pro Gly Leu Lys Tyr Xaa Arg Xaa Xaa Xaa Arg Gln
20 25

30

Xaa Arg Xaa
35

<210> 318
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<223> X is A or R

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<223> X is A or R

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hydroxylysine, hydroxyproline, phosphoserine analogs, and
phosphotyrosine analogs

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<222> (182)..(182)
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<400> 318

Tyr Xaa Arg Xaa Xaa Xaa Arg Gln Xaa Arg Xaa Met Glu Ile Pro Val
1 5 10 15

Pro Val Gln Pro Ser Trp Leu Arg Arg Ala Xaa Ala Pro Leu Pro Gly
20 25 30

Leu Ser Ala Pro Gly Arg Leu Phe Asp Gln Arg Phe Gly Glu Gly Leu
35 40 45

Leu Glu Ala Glu Leu Ala Ala Leu Cys Pro Thr Thr Leu Ala Pro Tyr
50 55 60

Tyr Leu Arg Ala Pro Ser Val Ala Leu Pro Val Ala Gln Val Pro Thr
65 70 75 80

Asp Pro Gly His Phe Ser Val Leu Leu Asp Val Lys His Phe Ser Pro
85 90 95

Glu Glu Ile Ala Val Lys Val Val Gly Glu His Val Glu Val His Ala
100 105 110

Arg His Glu Glu Arg Pro Asp Glu His Gly Phe Val Ala
Arg Glu Phe
115 120 125

His Arg Arg Tyr Arg Leu Pro Pro Gly Val Asp Pro Ala
Ala Val Thr
130 135 140

Ser Ala Leu Ser Pro Glu Gly Val Leu Ser Ile Gln Ala
Ala Pro Ala
145 150 155
160

Ser Ala Gln Ala Pro Pro Pro Ala Ala Ala Lys Tyr Xaa
Arg Xaa Xaa
165 170
175

Xaa Arg Gln Xaa Arg Xaa
180

<210> 319
<211> 45
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<220>
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<223> X is A or G

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phosphotyrosine analogs

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<223> X is A or G

<220>
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<223> X is A or R

<400> 319

Tyr Xaa Arg Xaa Xaa Xaa Arg Gln Xaa Arg Xaa Met Glu Ile Pro Val
1 5 10 15

Pro Val Gln Pro Ser Trp Leu Arg Arg Ala Xaa Ala Pro Leu Pro Xaa
20 25 30

Xaa Xaa Tyr Xaa Arg Xaa Xaa Xaa Arg Gln Xaa Arg Xaa

<210> 320
<211> 162
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phosphotyrosine analogs

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<400> 320

Xaa Met Glu Ile Pro Val Pro Val Gln Pro Ser Trp Leu Arg Arg Ala
1 5 10 15

Xaa Ala Pro Leu Pro Gly Leu Ser Ala Pro Gly Arg Leu Phe Asp Gln
20 25 30

Arg Phe Gly Glu Gly Leu Leu Glu Ala Glu Leu Ala Ala Leu Cys Pro
35 40 45

Thr Thr Leu Ala Pro Tyr Tyr Leu Arg Ala Pro Ser Val Ala Leu Pro
50 55 60

Val Ala Gln Val Pro Thr Asp Pro Gly His Phe Ser Val Leu Leu Asp
65 70 75 80

Val Lys His Phe Ser Pro Glu Glu Ile Ala Val Lys Val Val Gly Glu
85 90 95

His Val Glu Val His Ala Arg His Glu Glu Arg Pro Asp Glu His Gly
100 105 110

Phe Val Ala Arg Glu Phe His Arg Arg Tyr Arg Leu Pro Pro Gly Val
115 120 125

Asp Pro Ala Ala Val Thr Ser Ala Leu Ser Pro Glu Gly
Val Leu Ser
130 135 140

Ile Gln Ala Ala Pro Ala Ser Ala Gln Ala Pro Pro Pro
Ala Ala Ala
145 150 155
160

Lys Xaa

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analogs, and
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<223> X is a transduction domain or optionally absent

<400> 321

Xaa Met Glu Ile Pro Val Pro Val Gln Pro Ser Trp Leu Arg Arg Ala
1 5 10 15

Xaa Ala Pro Leu Pro Xaa Xaa Xaa
20