

SEQUENCE LISTING

<110> Apitope Technology (Bristol) Limited

<120> METHOD

<130> P115744PCT

<140> PCT/GB2020/051629

<141> 2020-07-07

<150> GB 1909774.0

<151> 2019-07-08

<160> 20

<170> PatentIn version 3.5

<210> 1

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> CLIP peptide sequence

<400> 1

Pro	Val	Ser	Lys	Met	Arg	Met	Ala	Thr	Pro	Leu	Leu	Met	Gln	Ala
1				5					10				15	

<210> 2

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> MBP83-99 peptide sequence

<400> 2

Glu	Asn	Pro	Val	Val	His	Phe	Phe	Lys	Asn	Ile	Val	Thr	Pro	Arg	Thr
1				5					10					15	

Pro

<210> 3

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide A sequence

<400> 3

Ile Ser Arg Ile Tyr Val Ser Ile Asp Val Thr Leu Gln Gln Leu Glu
1 5 10 15

Ser His Ser Phe Tyr Asn Leu Ser Lys Val Thr His Ile
20 25

<210> 4

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide B sequence

<400> 4

Ile Tyr Val Ser Ile Asp Val Thr Leu Gln Gln Leu Glu Ser His
1 5 10 15

<210> 5

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide C sequence

<400> 5

Lys Lys Lys Tyr Val Ser Ile Asp Val Thr Leu Gln Gln Leu Glu Lys
1 5 10 15

Lys Lys

<210> 6

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide D sequence

<400> 6

Val Ile Gly Leu Thr Phe Arg Arg Asp Leu Tyr Phe Ser Arg Val Gln
1 5 10 15

Val Tyr Pro Pro Val Gly
20

<210> 7

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide E sequence

<400> 7

Thr Phe Arg Arg Asp Leu Tyr Phe Ser Arg Val Gln
1 5 10

<210> 8

<211> 42

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide F sequence

<400> 8

Met Ala Ala Ser Gly Lys Thr Ser Lys Ser Glu Pro Asn His Val Ile
1 5 10 15

Phe Lys Lys Ile Ser Arg Asp Lys Ser Val Thr Ile Tyr Leu Gly Asn
20 25 30

Arg Asp Tyr Ile Asp His Val Ser Gln Val
35 40

<210> 9

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide G sequence

<400> 9

Phe Lys Lys Ile Ser Arg Asp Lys Ser Val Thr Ile Tyr
1 5 10

<210> 10

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide H sequence

<400> 10

Lys Lys Gly Pro Arg Cys Leu Thr Arg Tyr Tyr Ser Ser Phe Val Asn
1 5 10 15

Met Glu Gly Lys Lys
20

<210> 11

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide J sequence

<400> 11

Asn Pro Ile Leu Leu Trp Gln Pro Ile Pro Val His Thr Val Pro Leu
1 5 10 15

Ser Glu Asp Gln
20

<210> 12

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide K sequence

<400> 12

Leu Thr Leu Leu Pro Leu Leu Ala Asn Asn Arg Glu Arg Arg Gly Ile
1 5 10 15

Ala Leu Asp Gly Lys Ile Lys His Glu Asp Thr Asn Leu Ala Ser Ser
20 25 30

Thr Ile Ile Lys Glu Gly
35

<210> 13
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide L sequence

<400> 13

Gly Leu Lys Met Phe Pro Asp Leu Thr Lys Val Tyr Ser Thr Asp
1 5 10 15

<210> 14
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide M sequence

<400> 14

Lys Lys Glu Ile Phe Lys Lys Ile Ser Arg Asp Lys Ser Val Thr Ile
1 5 10 15

Tyr Leu Glu Lys Lys
20

<210> 15
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide N sequence

<400> 15

Gly Ile Leu Val Ser Tyr Gln Ile Lys Val Lys
1 5 10

<210> 16
<211> 17
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide O sequence

<400> 16

Lys Lys Lys Gly Ile Leu Val Ser Tyr Gln Ile Lys Val Lys Lys Lys
1 5 10 15

Lys

<210> 17
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide P sequence

<400> 17

Lys Lys Ile Phe Lys Lys Ile Ser Arg Asp Lys Ser Val Thr Ile Tyr
1 5 10 15

Leu Lys Lys

<210> 18
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Peptide Q sequence

<400> 18

Lys Lys Lys Ile Phe Lys Lys Ile Ser Arg Asp Lys Ser Val Thr Ile
1 5 10 15

Tyr Leu Lys Lys Lys
20

<210> 19
<211> 764
<212> PRT
<213> Homo sapiens

<400> 19

Met Arg Pro Ala Asp Leu Leu Gln Leu Val Leu Leu Leu Asp Leu Pro
1 5 10 15

Arg Asp Leu Gly Gly Met Gly Cys Ser Ser Pro Pro Cys Glu Cys His
20 25 30

Gln Glu Glu Asp Phe Arg Val Thr Cys Lys Asp Ile Gln Arg Ile Pro
35 40 45

Ser Leu Pro Pro Ser Thr Gln Thr Leu Lys Leu Ile Glu Thr His Leu
50 55 60

Arg Thr Ile Pro Ser His Ala Phe Ser Asn Leu Pro Asn Ile Ser Arg
65 70 75 80

Ile Tyr Val Ser Ile Asp Val Thr Leu Gln Gln Leu Glu Ser His Ser
85 90 95

Phe Tyr Asn Leu Ser Lys Val Thr His Ile Glu Ile Arg Asn Thr Arg
100 105 110

Asn Leu Thr Tyr Ile Asp Pro Asp Ala Leu Lys Glu Leu Pro Leu Leu
115 120 125

Lys Phe Leu Gly Ile Phe Asn Thr Gly Leu Lys Met Phe Pro Asp Leu
130 135 140

Thr Lys Val Tyr Ser Thr Asp Ile Phe Phe Ile Leu Glu Ile Thr Asp
145 150 155 160

Asn Pro Tyr Met Thr Ser Ile Pro Val Asn Ala Phe Gln Gly Leu Cys
165 170 175

Asn Glu Thr Leu Thr Leu Lys Leu Tyr Asn Asn Gly Phe Thr Ser Val

180

185

190

Gln Gly Tyr Ala Phe Asn Gly Thr Lys Leu Asp Ala Val Tyr Leu Asn
 195 200 205

Lys Asn Lys Tyr Leu Thr Val Ile Asp Lys Asp Ala Phe Gly Gly Val
 210 215 220

Tyr Ser Gly Pro Ser Leu Leu Asp Val Ser Gln Thr Ser Val Thr Ala
 225 230 235 240

Leu Pro Ser Lys Gly Leu Glu His Leu Lys Glu Leu Ile Ala Arg Asn
 245 250 255

Thr Trp Thr Leu Lys Lys Leu Pro Leu Ser Leu Ser Phe Leu His Leu
 260 265 270

Thr Arg Ala Asp Leu Ser Tyr Pro Ser His Cys Cys Ala Phe Lys Asn
 275 280 285

Gln Lys Lys Ile Arg Gly Ile Leu Glu Ser Leu Met Cys Asn Glu Ser
 290 295 300

Ser Met Gln Ser Leu Arg Gln Arg Lys Ser Val Asn Ala Leu Asn Ser
 305 310 315 320

Pro Leu His Gln Glu Tyr Glu Glu Asn Leu Gly Asp Ser Ile Val Gly
 325 330 335

Tyr Lys Glu Lys Ser Lys Phe Gln Asp Thr His Asn Asn Ala His Tyr
 340 345 350

Tyr Val Phe Phe Glu Glu Gln Glu Asp Glu Ile Ile Gly Phe Gly Gln
 355 360 365

Glu Leu Lys Asn Pro Gln Glu Glu Thr Leu Gln Ala Phe Asp Ser His
 370 375 380

Tyr Asp Tyr Thr Ile Cys Gly Asp Ser Glu Asp Met Val Cys Thr Pro
 385 390 395 400

Lys Ser Asp Glu Phe Asn Pro Cys Glu Asp Ile Met Gly Tyr Lys Phe
405 410 415

Leu Arg Ile Val Val Trp Phe Val Ser Leu Leu Ala Leu Leu Gly Asn
420 425 430

Val Phe Val Leu Leu Ile Leu Leu Thr Ser His Tyr Lys Leu Asn Val
435 440 445

Pro Arg Phe Leu Met Cys Asn Leu Ala Phe Ala Asp Phe Cys Met Gly
450 455 460

Met Tyr Leu Leu Leu Ile Ala Ser Val Asp Leu Tyr Thr His Ser Glu
465 470 475 480

Tyr Tyr Asn His Ala Ile Asp Trp Gln Thr Gly Pro Gly Cys Asn Thr
485 490 495

Ala Gly Phe Phe Thr Val Phe Ala Ser Glu Leu Ser Val Tyr Thr Leu
500 505 510

Thr Val Ile Thr Leu Glu Arg Trp Tyr Ala Ile Thr Phe Ala Met Arg
515 520 525

Leu Asp Arg Lys Ile Arg Leu Arg His Ala Cys Ala Ile Met Val Gly
530 535 540

Gly Trp Val Cys Cys Phe Leu Leu Ala Leu Leu Pro Leu Val Gly Ile
545 550 555 560

Ser Ser Tyr Ala Lys Val Ser Ile Cys Leu Pro Met Asp Thr Glu Thr
565 570 575

Pro Leu Ala Leu Ala Tyr Ile Val Phe Val Leu Thr Leu Asn Ile Val
580 585 590

Ala Phe Val Ile Val Cys Cys Cys Tyr Val Lys Ile Tyr Ile Thr Val
595 600 605

Arg Asn Pro Gln Tyr Asn Pro Gly Asp Lys Asp Thr Lys Ile Ala Lys

610

615

620

Arg Met Ala Val Leu Ile Phe Thr Asp Phe Ile Cys Met Ala Pro Ile
 625 630 635 640

Ser Phe Tyr Ala Leu Ser Ala Ile Leu Asn Lys Pro Leu Ile Thr Val
 645 650 655

Ser Asn Ser Lys Ile Leu Leu Val Leu Phe Tyr Pro Leu Asn Ser Cys
 660 665 670

Ala Asn Pro Phe Leu Tyr Ala Ile Phe Thr Lys Ala Phe Gln Arg Asp
 675 680 685

Val Phe Ile Leu Leu Ser Lys Phe Gly Ile Cys Lys Arg Gln Ala Gln
 690 695 700

Ala Tyr Arg Gly Gln Arg Val Pro Pro Lys Asn Ser Thr Asp Ile Gln
 705 710 715 720

Val Gln Lys Val Thr His Asp Met Arg Gln Gly Leu His Asn Met Glu
 725 730 735

Asp Val Tyr Glu Leu Ile Glu Asn Ser His Leu Thr Pro Lys Lys Gln
 740 745 750

Gly Gln Ile Ser Glu Glu Tyr Met Gln Thr Val Leu
 755 760

<210> 20

<211> 405

<212> PRT

<213> Homo sapiens

<400> 20

Met Ala Ala Ser Gly Lys Thr Ser Lys Ser Glu Pro Asn His Val Ile
 1 5 10 15

Phe Lys Lys Ile Ser Arg Asp Lys Ser Val Thr Ile Tyr Leu Gly Asn
 20 25 30

Arg Asp Tyr Ile Asp His Val Ser Gln Val Gln Pro Val Asp Gly Val
35 40 45

Val Leu Val Asp Pro Asp Leu Val Lys Gly Lys Lys Val Tyr Val Thr
50 55 60

Leu Thr Cys Ala Phe Arg Tyr Gly Gln Glu Asp Ile Asp Val Ile Gly
65 70 75 80

Leu Thr Phe Arg Arg Asp Leu Tyr Phe Ser Arg Val Gln Val Tyr Pro
85 90 95

Pro Val Gly Ala Ala Ser Thr Pro Thr Lys Leu Gln Glu Ser Leu Leu
100 105 110

Lys Lys Leu Gly Ser Asn Thr Tyr Pro Phe Leu Leu Thr Phe Pro Asp
115 120 125

Tyr Leu Pro Cys Ser Val Met Leu Gln Pro Ala Pro Gln Asp Ser Gly
130 135 140

Lys Ser Cys Gly Val Asp Phe Glu Val Lys Ala Phe Ala Thr Asp Ser
145 150 155 160

Thr Asp Ala Glu Glu Asp Lys Ile Pro Lys Lys Ser Ser Val Arg Leu
165 170 175

Leu Ile Arg Lys Val Gln His Ala Pro Leu Glu Met Gly Pro Gln Pro
180 185 190

Arg Ala Glu Ala Ala Trp Gln Phe Phe Met Ser Asp Lys Pro Leu His
195 200 205

Leu Ala Val Ser Leu Asn Lys Glu Ile Tyr Phe His Gly Glu Pro Ile
210 215 220

Pro Val Thr Val Thr Val Thr Asn Asn Thr Glu Lys Thr Val Lys Lys
225 230 235 240

Ile Lys Ala Phe Val Glu Gln Val Ala Asn Val Val Leu Tyr Ser Ser
245 250 255

Asp Tyr Tyr Val Lys Pro Val Ala Met Glu Glu Ala Gln Glu Lys Val
260 265 270

Pro Pro Asn Ser Thr Leu Thr Lys Thr Leu Thr Leu Leu Pro Leu Leu
275 280 285

Ala Asn Asn Arg Glu Arg Arg Gly Ile Ala Leu Asp Gly Lys Ile Lys
290 295 300

His Glu Asp Thr Asn Leu Ala Ser Ser Thr Ile Ile Lys Glu Gly Ile
305 310 315 320

Asp Arg Thr Val Leu Gly Ile Leu Val Ser Tyr Gln Ile Lys Val Lys
325 330 335

Leu Thr Val Ser Gly Phe Leu Gly Glu Leu Thr Ser Ser Glu Val Ala
340 345 350

Thr Glu Val Pro Phe Arg Leu Met His Pro Gln Pro Glu Asp Pro Ala
355 360 365

Lys Glu Ser Tyr Gln Asp Ala Asn Leu Val Phe Glu Glu Phe Ala Arg
370 375 380

His Asn Leu Lys Asp Ala Gly Glu Ala Glu Glu Gly Lys Arg Asp Lys
385 390 395 400

Asn Asp Val Asp Glu
405