SEQUENCE LISTING

<110> UCL BUSINESS PLC

<120> T-Cell Receptor

<130> P037291SG

<140> PCT/GB2010/001821
<141> 2010-09-28

<150> GB 0917090.3
<151> 2009-09-29

<160> 13

<170> PatentIn version 3.5

<210> 1
<211> 9
<212> PRT
<213> Epstein Barr Virus (EBV)

<400> 1

Cys Leu Gly Gly Leu Leu Thr Met Val
1 5

<210> 2
<211> 27
<212> PRT
<213> Homo sapiens

<400> 2

Phe Cys Ala Met Arg Glu Gly Ser Gly Ser Ala Arg Gln Leu Thr Phe
1 5 10 15

Gly Ser Gly Thr Gln Leu Thr Val Leu Pro Asp
20 25

<210> 3
<211> 24
<212> PRT
<213> Homo sapiens

<400> 3

Ala Ser Ser Leu Gly Pro Ala Gly Ile Gln Glu Thr Gln Tyr Phe Gly
1 5 10 15

Pro Gly Thr Arg Leu Leu Val Leu
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<210> 4
<211> 7
<212> PRT
<213> Homo sapiens

<400> 4

Thr Ser Asp Gln Ser Tyr Gly
1 5

<210> 5
<211> 7
<212> PRT
<213> Homo sapiens

<400> 5

Gln Gly Ser Tyr Asp Glu Gln
1 5

<210> 6
<211> 5
<212> PRT
<213> Homo sapiens

<400> 6

Ser Ser His Ala Thr
1 5

<210> 7
<211> 6
<212> PRT
<213> Homo sapiens

<400> 7

Phe Asn Tyr Glu Ala Gln
1 5

<210> 8
<211> 603
<212> PRT
<213> Homo sapiens

<400> 8

Met Ser Leu Ser Ser Leu Leu Lys Val Val Thr Ala Ser Leu Trp Leu
1 5 10 15

Gly Pro Gly Ile Ala Gln Lys Ile Thr Gln Thr Gln Pro Gly Met Phe
20 25 30

Val Gln Glu Lys Glu Ala Val Thr Leu Asp Cys Thr Tyr Asp Thr Ser
35 40 45

Asp Gln Ser Tyr Gly Leu Phe Trp Tyr Lys Gln Pro Ser Ser Gly Glu
50 55 60

Met Ile Phe Leu Ile Tyr Gln Gly Ser Tyr Asp Glu Gln Asn Ala Thr
65 70 75 80

Glu Gly Arg Tyr Ser Leu Asn Phe Gln Lys Ala Arg Lys Ser Ala Asn
85 90 95

Leu Val Ile Ser Ala Ser Gln Leu Gly Asp Ser Ala Met Tyr Phe Cys
100 105 110

```
Ala Met Arg Glu Gly Ser Gly Ser Ala Arg Gln Leu Thr Phe Gly Ser
        115                 120                 125

Gly Thr Gln Leu Thr Val Leu Pro Asp Ile Gln Asn Pro Glu Pro Ala
    130                 135                 140

Val Tyr Gln Leu Lys Asp Pro Arg Ser Gln Asp Ser Thr Leu Cys Leu
145                 150                 155                 160

Phe Thr Asp Phe Asp Ser Gln Ile Asn Val Pro Lys Thr Met Glu Ser
                165                 170                 175

Gly Thr Phe Ile Thr Asp Lys Cys Val Leu Asp Met Lys Ala Met Asp
            180                 185                 190

Ser Lys Ser Asn Gly Ala Ile Ala Trp Ser Asn Gln Thr Ser Phe Thr
        195                 200                 205

Cys Gln Asp Ile Phe Lys Glu Thr Asn Ala Thr Tyr Pro Ser Ser Asp
    210                 215                 220

Val Pro Cys Asp Ala Thr Leu Thr Glu Lys Ser Phe Glu Thr Asp Met
225                 230                 235                 240

Asn Leu Asn Phe Gln Asn Leu Ser Val Met Gly Leu Arg Ile Leu Leu
                245                 250                 255

Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu Arg Leu Trp Ser
            260                 265                 270

Ser Gly Ser Gly Ala Thr Asn Phe Ser Leu Leu Lys Gln Ala Gly Asp
        275                 280                 285

Val Glu Glu Asn Pro Gly Pro Met Gly Thr Ser Leu Leu Cys Trp Val
    290                 295                 300

Val Leu Gly Phe Leu Gly Thr Asp His Thr Gly Ala Gly Val Ser Gln
305                 310                 315                 320

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

Cys Asp Pro Ile Ser Ser His Ala Thr Leu Tyr Trp Tyr Gln Gln Ala
            340                 345                 350

Leu Gly Gln Gly Pro Glu Phe Leu Thr Tyr Phe Asn Tyr Glu Ala Gln
        355                 360                 365

Pro Asp Lys Ser Gly Leu Pro Ser Asp Arg Phe Ser Ala Glu Arg Pro
    370                 375                 380

Glu Gly Ser Ile Ser Thr Leu Thr Ile Gln Arg Thr Glu Gln Arg Asp
```

385 390 395 400

Ser Ala Met Tyr Arg Cys Ala Ser Ser Leu Gly Pro Ala Gly Ile Gln
405 410 415

Glu Thr Gln Tyr Phe Gly Pro Gly Thr Arg Leu Leu Val Leu Glu Asp
420 425 430

Leu Arg Asn Val Thr Pro Pro Lys Val Ser Leu Phe Glu Pro Ser Lys
435 440 445

Ala Glu Ile Ala Asn Lys Gln Lys Ala Thr Leu Val Cys Leu Ala Arg
450 455 460

Gly Phe Phe Pro Asp His Val Glu Leu Ser Trp Trp Val Asn Gly Lys
465 470 475 480

Glu Val His Ser Gly Val Cys Thr Asp Pro Gln Ala Tyr Lys Glu Ser
485 490 495

Asn Tyr Ser Tyr Cys Leu Ser Ser Arg Leu Arg Val Ser Ala Thr Phe
500 505 510

Trp His Asn Pro Arg Asn His Phe Arg Cys Gln Val Gln Phe His Gly
515 520 525

Leu Ser Glu Glu Asp Lys Trp Pro Glu Gly Ser Pro Lys Pro Val Thr
530 535 540

Gln Asn Ile Ser Ala Glu Ala Trp Gly Arg Ala Asp Cys Gly Ile Thr
545 550 555 560

Ser Ala Ser Tyr His Gln Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu
565 570 575

Ile Leu Leu Gly Lys Ala Thr Leu Tyr Ala Val Leu Val Ser Gly Leu
580 585 590

Val Leu Met Ala Met Val Lys Lys Lys Asn Ser
595 600

<210> 9
<211> 1812
<212> DNA
<213> Homo sapiens

<400> 9
atgtcacttt ctagcctgct gaaggtggtc acagcttcac tgtggctagg acctggcatt 60

gcccagaaga taactcaaac ccaaccagga atgttcgtgc aggaaaagga ggctgtgact 120

ctggactgca catatgacac cagtgatcaa agttatggtc tcttctggta caagcagccc 180

agcagtgggg aaatgatttt tcttatttat caggggtctt atgacgagca aaatgcaaca 240

gaaggtcgct actcattgaa tttccagaag gcaagaaaat ccgccaacct tgtcatctcc 300

gcttcacaac tgggggactc agcaatgtat ttctgtgcaa tgagagaggg ttctggttct 360

gcaaggcaac tgacctttgg atctgggaca caattgactg ttttacctga tatccagaac 420

cctgagcccg cggtgtacca gctgaaggac cccagaagcc aggacagcac cctgtgcctg 480

ttcaccgact tcgacagcca gatcaacgtg cccaagacaa tggaaagcgg caccttcatc 540

accgacaagt gcgtgctgga catgaaggct atggacagca agagcaacgg cgccatcgcc 600

tggtccaacc agacctcctt cacatgccaa gacatcttca aagagaccaa cgccacctac 660

cccagcagcg acgtgccctg cgatgccact ctcaccgaga agagcttcga gaccgacatg 720

aacctgaact tccagaacct gagcgtgatg ggcctgagaa tcctgctcct gaaagtggcc 780

ggcttcaacc tgctgatgac cctgcggctc tggagttctg gcagcggcgc taccaacttc 840

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ctatgctggg tggtcctggg tttcctaggg acagatcaca caggtgctgg agtctcccag 960

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acttacttca attatgaagc tcaaccagac aaatcagggc tgcccagtga tcggttctct 1140

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tgtctggcta ggggcttctt ccccgaccac gtggagctgt cttggtgggt caacggcaaa 1440

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aagaacagct ga 1812

<210> 10
<211> 497
<212> PRT
<213> Epstein Barr Virus (EBV)

<400> 10

Met Gly Ser Leu Glu Met Val Pro Met Gly Ala Gly Pro Pro Ser Pro
1 5 10 15

Gly Gly Asp Pro Asp Gly Asp Asp Gly Gly Asn Asn Ser Gln Tyr Pro
20 25 30

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Ser Ala Ser Gly Ser Ser Gly Asn Thr Pro Thr Pro Pro Asn Asp Glu
        35                  40                  45

Glu Arg Glu Ser Asn Glu Glu Pro Pro Pro Pro Tyr Glu Asp Pro Tyr
    50                  55                  60

Trp Gly Asn Gly Asp Arg His Ser Asp Tyr Gln Pro Leu Gly Thr Gln
65                  70                  75                  80

Asp Gln Ser Leu Tyr Leu Gly Leu Gln His Asp Gly Asn Asp Gly Leu
                85                  90                  95

Pro Pro Pro Pro Tyr Ser Pro Arg Asp Asp Ser Ser Gln His Ile Tyr
            100                 105                 110

Glu Glu Ala Gly Arg Gly Ser Met Asn Pro Val Cys Leu Pro Val Ile
        115                 120                 125

Val Ala Pro Tyr Leu Phe Trp Leu Ala Ala Ile Ala Ala Ser Cys Phe
    130                 135                 140

Thr Ala Ser Val Ser Thr Val Val Thr Ala Thr Gly Leu Ala Leu Ser
145                 150                 155                 160

Leu Leu Leu Leu Ala Ala Val Ala Ser Ser Tyr Ala Ala Ala Gln Arg
                165                 170                 175

Lys Leu Leu Thr Pro Val Thr Val Leu Thr Ala Val Val Thr Phe Phe
            180                 185                 190

Ala Ile Cys Leu Thr Trp Arg Ile Glu Asp Pro Pro Phe Asn Ser Leu
        195                 200                 205

Leu Phe Ala Leu Leu Ala Ala Ala Gly Gly Leu Gln Gly Ile Tyr Val
    210                 215                 220

Leu Val Met Leu Val Leu Leu Ile Leu Ala Tyr Arg Arg Arg Trp Arg
225                 230                 235                 240

Arg Leu Thr Val Cys Gly Gly Ile Met Phe Leu Ala Cys Val Leu Val
                245                 250                 255

Leu Ile Val Asp Ala Val Leu Gln Leu Ser Pro Leu Leu Gly Ala Val
            260                 265                 270

Thr Val Val Ser Met Thr Leu Leu Leu Leu Ala Phe Val Leu Trp Leu
        275                 280                 285

Ser Ser Pro Gly Gly Leu Gly Thr Leu Gly Ala Ala Leu Leu Thr Leu
    290                 295                 300
```

```
Ala Ala Ala Leu Ala Leu Leu Ala Ser Leu Ile Leu Gly Thr Leu Asn
305                 310                 315                 320

Leu Thr Thr Met Phe Leu Leu Met Leu Leu Trp Thr Leu Val Val Leu
                325                 330                 335

Leu Ile Cys Ser Ser Cys Ser Ser Cys Pro Leu Ser Lys Ile Leu Leu
            340                 345                 350

Ala Arg Leu Phe Leu Tyr Ala Leu Ala Leu Leu Leu Leu Ala Ser Ala
        355                 360                 365

Leu Ile Ala Gly Gly Ser Ile Leu Gln Thr Asn Phe Lys Ser Leu Ser
    370                 375                 380

Ser Thr Glu Phe Ile Pro Asn Leu Phe Cys Met Leu Leu Leu Ile Val
385                 390                 395                 400

Ala Gly Ile Leu Phe Ile Leu Ala Ile Leu Thr Glu Trp Gly Ser Gly
                405                 410                 415

Asn Arg Thr Tyr Gly Pro Val Phe Met Cys Leu Gly Gly Leu Leu Thr
            420                 425                 430

Met Val Ala Gly Ala Val Trp Leu Thr Val Met Thr Asn Thr Leu Leu
        435                 440                 445

Ser Ala Trp Ile Leu Thr Ala Gly Phe Leu Ile Phe Leu Ile Gly Phe
    450                 455                 460

Ala Leu Phe Gly Val Ile Arg Cys Cys Arg Tyr Cys Cys Tyr Tyr Cys
465                 470                 475                 480

Leu Thr Leu Glu Ser Glu Glu Arg Pro Pro Thr Pro Tyr Arg Asn Thr
                485                 490                 495

Val
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<210> 11
<211> 378
<212> PRT
<213> Epstein Barr Virus (EBV)

<400> 11

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Met Asn Pro Val Cys Leu Pro Val Ile Val Ala Pro Tyr Leu Phe Trp
1               5                   10                  15

Leu Ala Ala Ile Ala Ala Ser Cys Phe Thr Ala Ser Val Ser Thr Val
            20                  25                  30

Val Thr Ala Thr Gly Leu Ala Leu Ser Leu Leu Leu Leu Ala Ala Val
        35                  40                  45
```

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

Val Leu Thr Ala Val Val Thr Phe Phe Ala Ile Cys Leu Thr Trp Arg
65 70 75 80

Ile Glu Asp Pro Pro Phe Asn Ser Leu Leu Phe Ala Leu Leu Ala Ala
85 90 95

Ala Gly Gly Leu Gln Gly Ile Tyr Val Leu Val Met Leu Val Leu Leu
100 105 110

Ile Leu Ala Tyr Arg Arg Arg Trp Arg Arg Leu Thr Val Cys Gly Gly
115 120 125

Ile Met Phe Leu Ala Cys Val Leu Val Leu Ile Val Asp Ala Val Leu
130 135 140

Gln Leu Ser Pro Leu Leu Gly Ala Val Thr Val Val Ser Met Thr Leu
145 150 155 160

Leu Leu Leu Ala Phe Val Leu Trp Leu Ser Ser Pro Gly Gly Leu Gly
165 170 175

Thr Leu Gly Ala Ala Leu Leu Thr Leu Ala Ala Ala Leu Ala Leu Leu
180 185 190

Ala Ser Leu Ile Leu Gly Thr Leu Asn Leu Thr Thr Met Phe Leu Leu
195 200 205

Met Leu Leu Trp Thr Leu Val Val Leu Leu Ile Cys Ser Ser Cys Ser
210 215 220

Ser Cys Pro Leu Ser Lys Ile Leu Leu Ala Arg Leu Phe Leu Tyr Ala
225 230 235 240

Leu Ala Leu Leu Leu Leu Ala Ser Ala Leu Ile Ala Gly Gly Ser Ile
245 250 255

Leu Gln Thr Asn Phe Lys Ser Leu Ser Ser Thr Glu Phe Ile Pro Asn
260 265 270

Leu Phe Cys Met Leu Leu Leu Ile Val Ala Gly Ile Leu Phe Ile Leu
275 280 285

Ala Ile Leu Thr Glu Trp Gly Ser Gly Asn Arg Thr Tyr Gly Pro Val
290 295 300

Phe Met Cys Leu Gly Gly Leu Leu Thr Met Val Ala Gly Ala Val Trp
305 310 315 320

```
Leu Thr Val Met Thr Asn Thr Leu Leu Ser Ala Trp Ile Leu Thr Ala
                325                 330                 335

Gly Phe Leu Ile Phe Leu Ile Gly Phe Ala Leu Phe Gly Val Ile Arg
            340                 345                 350

Cys Cys Arg Tyr Cys Cys Tyr Tyr Cys Leu Thr Leu Glu Ser Glu Glu
        355                 360                 365

Arg Pro Pro Thr Pro Tyr Arg Asn Thr Val
    370                 375
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<210> 12
<211> 18
<212> PRT
<213> Epstein Barr Virus (EBV)

<400> 12

```
Gly Pro Val Phe Met Cys Leu Gly Gly Leu Thr Met Val Ala Gly Ala
1               5                   10                  15

Val Trp
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<210> 13
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic peptide

<400> 13

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Asn Leu Val Pro Met Val Ala Thr Val
1               5
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