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<120> CRISPR-CPF1-RELATED METHODS, COMPOSITIONS AND COMPONENTS FOR CANCER IMMUNOTHERAPY

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<400> 3710
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<210> 3720
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<210> 3721
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<400> 3721
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<210> 3722
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aaggcccgga acgaccacta caaggagctg aagcccatca tcgaccggat ctacaagacc 180

tacgccgacc agtgcctgca gctggtgcag ctggactggg agaacctgag cgccgccatc 240

gacagctacc ggaaggagaa gaccgaggag acccggaacg ccctgatcga ggagcaggcc 300

acctaccgga acgccatcca cgactacttc atcggccgga ccgacaacct gaccgacgcc 360

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cacttcgaga acgtgaagaa ggccatcggc atcttcgtga gcaccagcat cgaggaggtg 720

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gccgccaaga tgatccccaa gtgcagcacc cagctgaagg ccgtgaccgc ccacttccag 1860

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tacatccagg agctgcggaa caagcggccc gccgccacca agaaggccgg ccaggccaag 3960

aagaagaagg gcagctaccc ctacgacgtg cccgactacg cctaccccta cgacgtgccc 4020

gactacgcct acccctacga cgtgcccgac tacgcctga 4059

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gagaagcggg ccgaggacta caagggcgtg aagaagctgc tggaccggta ctacctgagc 180

ttcatcaacg acgtgctgca cagcatcaag ctgaagaacc tgaacaacta catcagcctg 240

ttccggaaga agacccggac cgagaaggag aacaaggagc tggagaacct ggagatcaac 300

ctgcggaagg agatcgccaa ggccttcaag ggcaacgagg gctacaagag cctgttcaag 360

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gtgaacagct tcaacggctt caccaccgcc ttcaccggct tcttcgacaa ccgggagaac 480

atgttcagcg aggaggccaa gagcaccagc atcgccttcc ggtgcatcaa cgagaacctg 540

acccggtaca tcagcaacat ggacatcttc gagaaggtgg acgccatctt cgacaagcac 600

gaggtgcagg agatcaagga gaagatcctg aacagcgact acgacgtgga ggacttcttc 660

gagggcgagt tcttcaactt cgtgctgacc caggagggca tcgacgtgta caacgccatc 720

atcggcggct tcgtgaccga gagcggcgag aagatcaagg gcctgaacga gtacatcaac 780

ctgtacaacc agaagaccaa gcagaagctg cccaagttca agcccctgta caagcaggtg 840

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cagaaaagcg agggcgagaa gatcaacctg gccatgacca acgccgagtg gctggagtac 3600

gcccagaccc acctgctgaa gcggcccgcc gccaccaaga aggccggcca ggccaagaag 3660

aagaagggca gctaccccta cgacgtgccc gactacgcct acccctacga cgtgcccgac 3720

tacgcctacc cctacgacgt gcccgactac gcctga 3756

<210> 3725
<211> 1307
<212> PRT
<213> Acidaminococcus sp.

<400> 3725

Met Thr Gln Phe Glu Gly Phe Thr Asn Leu Tyr Gln Val Ser Lys Thr
1 5 10 15

Leu Arg Phe Glu Leu Ile Pro Gln Gly Lys Thr Leu Lys His Ile Gln
20 25 30

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Glu Gln Gly Phe Ile Glu Glu Asp Lys Ala Arg Asn Asp His Tyr Lys
        35                  40                  45

Glu Leu Lys Pro Ile Ile Asp Arg Ile Tyr Lys Thr Tyr Ala Asp Gln
    50                  55                  60

Cys Leu Gln Leu Val Gln Leu Asp Trp Glu Asn Leu Ser Ala Ala Ile
65                  70                  75                  80

Asp Ser Tyr Arg Lys Glu Lys Thr Glu Glu Thr Arg Asn Ala Leu Ile
                85                  90                  95

Glu Glu Gln Ala Thr Tyr Arg Asn Ala Ile His Asp Tyr Phe Ile Gly
            100                 105                 110

Arg Thr Asp Asn Leu Thr Asp Ala Ile Asn Lys Arg His Ala Glu Ile
        115                 120                 125

Tyr Lys Gly Leu Phe Lys Ala Glu Leu Phe Asn Gly Lys Val Leu Lys
    130                 135                 140

Gln Leu Gly Thr Val Thr Thr Thr Glu His Glu Asn Ala Leu Leu Arg
145                 150                 155                 160

Ser Phe Asp Lys Phe Thr Thr Tyr Phe Ser Gly Phe Tyr Glu Asn Arg
                165                 170                 175

Lys Asn Val Phe Ser Ala Glu Asp Ile Ser Thr Ala Ile Pro His Arg
            180                 185                 190

Ile Val Gln Asp Asn Phe Pro Lys Phe Lys Glu Asn Cys His Ile Phe
        195                 200                 205

Thr Arg Leu Ile Thr Ala Val Pro Ser Leu Arg Glu His Phe Glu Asn
    210                 215                 220

Val Lys Lys Ala Ile Gly Ile Phe Val Ser Thr Ser Ile Glu Glu Val
225                 230                 235                 240

Phe Ser Phe Pro Phe Tyr Asn Gln Leu Leu Thr Gln Thr Gln Ile Asp
```

```
                245                 250                 255

Leu Tyr Asn Gln Leu Leu Gly Gly Ile Ser Arg Glu Ala Gly Thr Glu
            260                 265                 270

Lys Ile Lys Gly Leu Asn Glu Val Leu Asn Leu Ala Ile Gln Lys Asn
        275                 280                 285

Asp Glu Thr Ala His Ile Ile Ala Ser Leu Pro His Arg Phe Ile Pro
    290                 295                 300

Leu Phe Lys Gln Ile Leu Ser Asp Arg Asn Thr Leu Ser Phe Ile Leu
305                 310                 315                 320

Glu Glu Phe Lys Ser Asp Glu Glu Val Ile Gln Ser Phe Cys Lys Tyr
                325                 330                 335

Lys Thr Leu Leu Arg Asn Glu Asn Val Leu Glu Thr Ala Glu Ala Leu
            340                 345                 350

Phe Asn Glu Leu Asn Ser Ile Asp Leu Thr His Ile Phe Ile Ser His
        355                 360                 365

Lys Lys Leu Glu Thr Ile Ser Ser Ala Leu Cys Asp His Trp Asp Thr
    370                 375                 380

Leu Arg Asn Ala Leu Tyr Glu Arg Arg Ile Ser Glu Leu Thr Gly Lys
385                 390                 395                 400

Ile Thr Lys Ser Ala Lys Glu Lys Val Gln Arg Ser Leu Lys His Glu
                405                 410                 415

Asp Ile Asn Leu Gln Glu Ile Ile Ser Ala Ala Gly Lys Glu Leu Ser
            420                 425                 430

Glu Ala Phe Lys Gln Lys Thr Ser Glu Ile Leu Ser His Ala His Ala
        435                 440                 445

Ala Leu Asp Gln Pro Leu Pro Thr Thr Leu Lys Lys Gln Glu Glu Lys
    450                 455                 460
```

```
Glu Ile Leu Lys Ser Gln Leu Asp Ser Leu Leu Gly Leu Tyr His Leu
465                 470                 475                 480


Leu Asp Trp Phe Ala Val Asp Glu Ser Asn Glu Val Asp Pro Glu Phe
                485                 490                 495


Ser Ala Arg Leu Thr Gly Ile Lys Leu Glu Met Glu Pro Ser Leu Ser
            500                 505                 510


Phe Tyr Asn Lys Ala Arg Asn Tyr Ala Thr Lys Lys Pro Tyr Ser Val
        515                 520                 525


Glu Lys Phe Lys Leu Asn Phe Gln Met Pro Thr Leu Ala Ser Gly Trp
    530                 535                 540


Asp Val Asn Lys Glu Lys Asn Asn Gly Ala Ile Leu Phe Val Lys Asn
545                 550                 555                 560


Gly Leu Tyr Tyr Leu Gly Ile Met Pro Lys Gln Lys Gly Arg Tyr Lys
                565                 570                 575


Ala Leu Ser Phe Glu Pro Thr Glu Lys Thr Ser Glu Gly Phe Asp Lys
            580                 585                 590


Met Tyr Tyr Asp Tyr Phe Pro Asp Ala Ala Lys Met Ile Pro Lys Cys
        595                 600                 605


Ser Thr Gln Leu Lys Ala Val Thr Ala His Phe Gln Thr His Thr Thr
    610                 615                 620


Pro Ile Leu Leu Ser Asn Asn Phe Ile Glu Pro Leu Glu Ile Thr Lys
625                 630                 635                 640


Glu Ile Tyr Asp Leu Asn Asn Pro Glu Lys Glu Pro Lys Lys Phe Gln
                645                 650                 655


Thr Ala Tyr Ala Lys Lys Thr Gly Asp Gln Lys Gly Tyr Arg Glu Ala
            660                 665                 670
```

```
Leu Cys Lys Trp Ile Asp Phe Thr Arg Asp Phe Leu Ser Lys Tyr Thr
        675                 680                 685

Lys Thr Thr Ser Ile Asp Leu Ser Ser Leu Arg Pro Ser Ser Gln Tyr
    690                 695                 700

Lys Asp Leu Gly Glu Tyr Tyr Ala Glu Leu Asn Pro Leu Leu Tyr His
705                 710                 715                 720

Ile Ser Phe Gln Arg Ile Ala Glu Lys Glu Ile Met Asp Ala Val Glu
                725                 730                 735

Thr Gly Lys Leu Tyr Leu Phe Gln Ile Tyr Asn Lys Asp Phe Ala Lys
            740                 745                 750

Gly His His Gly Lys Pro Asn Leu His Thr Leu Tyr Trp Thr Gly Leu
        755                 760                 765

Phe Ser Pro Glu Asn Leu Ala Lys Thr Ser Ile Lys Leu Asn Gly Gln
    770                 775                 780

Ala Glu Leu Phe Tyr Arg Pro Lys Ser Arg Met Lys Arg Met Ala His
785                 790                 795                 800

Arg Leu Gly Glu Lys Met Leu Asn Lys Lys Leu Lys Asp Gln Lys Thr
                805                 810                 815

Pro Ile Pro Asp Thr Leu Tyr Gln Glu Leu Tyr Asp Tyr Val Asn His
            820                 825                 830

Arg Leu Ser His Asp Leu Ser Asp Glu Ala Arg Ala Leu Leu Pro Asn
        835                 840                 845

Val Ile Thr Lys Glu Val Ser His Glu Ile Ile Lys Asp Arg Arg Phe
    850                 855                 860

Thr Ser Asp Lys Phe Phe Phe His Val Pro Ile Thr Leu Asn Tyr Gln
865                 870                 875                 880
```

```
Ala Ala Asn Ser Pro Ser Lys Phe Asn Gln Arg Val Asn Ala Tyr Leu
                885                 890                 895

Lys Glu His Pro Glu Thr Pro Ile Ile Gly Ile Asp Arg Gly Glu Arg
            900                 905                 910

Asn Leu Ile Tyr Ile Thr Val Ile Asp Ser Thr Gly Lys Ile Leu Glu
        915                 920                 925

Gln Arg Ser Leu Asn Thr Ile Gln Gln Phe Asp Tyr Gln Lys Lys Leu
    930                 935                 940

Asp Asn Arg Glu Lys Glu Arg Val Ala Ala Arg Gln Ala Trp Ser Val
945                 950                 955                 960

Val Gly Thr Ile Lys Asp Leu Lys Gln Gly Tyr Leu Ser Gln Val Ile
                965                 970                 975

His Glu Ile Val Asp Leu Met Ile His Tyr Gln Ala Val Val Val Leu
            980                 985                 990

Glu Asn Leu Asn Phe Gly Phe Lys  Ser Lys Arg Thr Gly  Ile Ala Glu
        995                 1000                1005

Lys Ala  Val Tyr Gln Gln Phe  Glu Lys Met Leu Ile  Asp Lys Leu
    1010                1015                1020

Asn Cys  Leu Val Leu Lys Asp  Tyr Pro Ala Glu Lys  Val Gly Gly
    1025                1030                1035

Val Leu  Asn Pro Tyr Gln Leu  Thr Asp Gln Phe Thr  Ser Phe Ala
    1040                1045                1050

Lys Met  Gly Thr Gln Ser Gly  Phe Leu Phe Tyr Val  Pro Ala Pro
    1055                1060                1065

Tyr Thr  Ser Lys Ile Asp Pro  Leu Thr Gly Phe Val  Asp Pro Phe
    1070                1075                1080

Val Trp  Lys Thr Ile Lys Asn  His Glu Ser Arg Lys  His Phe Leu
```

```
    1085                1090                1095

Glu Gly  Phe Asp Phe Leu His  Tyr Asp Val Lys Thr  Gly Asp Phe
    1100                1105                1110

Ile Leu  His Phe Lys Met Asn  Arg Asn Leu Ser Phe  Gln Arg Gly
    1115                1120                1125

Leu Pro  Gly Phe Met Pro Ala  Trp Asp Ile Val Phe  Glu Lys Asn
    1130                1135                1140

Glu Thr  Gln Phe Asp Ala Lys  Gly Thr Pro Phe Ile  Ala Gly Lys
    1145                1150                1155

Arg Ile  Val Pro Val Ile Glu  Asn His Arg Phe Thr  Gly Arg Tyr
    1160                1165                1170

Arg Asp  Leu Tyr Pro Ala Asn  Glu Leu Ile Ala Leu  Leu Glu Glu
    1175                1180                1185

Lys Gly  Ile Val Phe Arg Asp  Gly Ser Asn Ile Leu  Pro Lys Leu
    1190                1195                1200

Leu Glu  Asn Asp Asp Ser His  Ala Ile Asp Thr Met  Val Ala Leu
    1205                1210                1215

Ile Arg  Ser Val Leu Gln Met  Arg Asn Ser Asn Ala  Ala Thr Gly
    1220                1225                1230

Glu Asp  Tyr Ile Asn Ser Pro  Val Arg Asp Leu Asn  Gly Val Cys
    1235                1240                1245

Phe Asp  Ser Arg Phe Gln Asn  Pro Glu Trp Pro Met  Asp Ala Asp
    1250                1255                1260

Ala Asn  Gly Ala Tyr His Ile  Ala Leu Lys Gly Gln  Leu Leu Leu
    1265                1270                1275

Asn His  Leu Lys Glu Ser Lys  Asp Leu Lys Leu Gln  Asn Gly Ile
    1280                1285                1290
```

Ser Asn Gln Asp Trp Leu Ala Tyr Ile Gln Glu Leu Arg Asn
    1295   1300   1305

<210> 3726
<211> 1228
<212> PRT
<213> Lachnospiraceae bacterium

<400> 3726

Met Ser Lys Leu Glu Lys Phe Thr Asn Cys Tyr Ser Leu Ser Lys Thr
1   5   10   15

Leu Arg Phe Lys Ala Ile Pro Val Gly Lys Thr Gln Glu Asn Ile Asp
            20   25   30

Asn Lys Arg Leu Leu Val Glu Asp Glu Lys Arg Ala Glu Asp Tyr Lys
        35   40   45

Gly Val Lys Lys Leu Leu Asp Arg Tyr Tyr Leu Ser Phe Ile Asn Asp
    50   55   60

Val Leu His Ser Ile Lys Leu Lys Asn Leu Asn Asn Tyr Ile Ser Leu
65   70   75   80

Phe Arg Lys Lys Thr Arg Thr Glu Lys Glu Asn Lys Glu Leu Glu Asn
                85   90   95

Leu Glu Ile Asn Leu Arg Lys Glu Ile Ala Lys Ala Phe Lys Gly Asn
            100   105   110

Glu Gly Tyr Lys Ser Leu Phe Lys Lys Asp Ile Ile Glu Thr Ile Leu
        115   120   125

Pro Glu Phe Leu Asp Asp Lys Asp Glu Ile Ala Leu Val Asn Ser Phe
    130   135   140

Asn Gly Phe Thr Thr Ala Phe Thr Gly Phe Phe Asp Asn Arg Glu Asn
145   150   155   160

```
Met Phe Ser Glu Glu Ala Lys Ser Thr Ser Ile Ala Phe Arg Cys Ile
                165                 170                 175

Asn Glu Asn Leu Thr Arg Tyr Ile Ser Asn Met Asp Ile Phe Glu Lys
            180                 185                 190

Val Asp Ala Ile Phe Asp Lys His Glu Val Gln Glu Ile Lys Glu Lys
        195                 200                 205

Ile Leu Asn Ser Asp Tyr Asp Val Glu Asp Phe Phe Glu Gly Glu Phe
    210                 215                 220

Phe Asn Phe Val Leu Thr Gln Glu Gly Ile Asp Val Tyr Asn Ala Ile
225                 230                 235                 240

Ile Gly Gly Phe Val Thr Glu Ser Gly Glu Lys Ile Lys Gly Leu Asn
                245                 250                 255

Glu Tyr Ile Asn Leu Tyr Asn Gln Lys Thr Lys Gln Lys Leu Pro Lys
            260                 265                 270

Phe Lys Pro Leu Tyr Lys Gln Val Leu Ser Asp Arg Glu Ser Leu Ser
        275                 280                 285

Phe Tyr Gly Glu Gly Tyr Thr Ser Asp Glu Glu Val Leu Glu Val Phe
    290                 295                 300

Arg Asn Thr Leu Asn Lys Asn Ser Glu Ile Phe Ser Ser Ile Lys Lys
305                 310                 315                 320

Leu Glu Lys Leu Phe Lys Asn Phe Asp Glu Tyr Ser Ser Ala Gly Ile
                325                 330                 335

Phe Val Lys Asn Gly Pro Ala Ile Ser Thr Ile Ser Lys Asp Ile Phe
            340                 345                 350

Gly Glu Trp Asn Val Ile Arg Asp Lys Trp Asn Ala Glu Tyr Asp Asp
        355                 360                 365

Ile His Leu Lys Lys Lys Ala Val Val Thr Glu Lys Tyr Glu Asp Asp
```

```
    370                 375                 380

Arg Arg Lys Ser Phe Lys Lys Ile Gly Ser Phe Ser Leu Glu Gln Leu
385                 390                 395                 400

Gln Glu Tyr Ala Asp Ala Asp Leu Ser Val Val Glu Lys Leu Lys Glu
                405                 410                 415

Ile Ile Ile Gln Lys Val Asp Glu Ile Tyr Lys Val Tyr Gly Ser Ser
            420                 425                 430

Glu Lys Leu Phe Asp Ala Asp Phe Val Leu Glu Lys Ser Leu Lys Lys
        435                 440                 445

Asn Asp Ala Val Val Ala Ile Met Lys Asp Leu Leu Asp Ser Val Lys
    450                 455                 460

Ser Phe Glu Asn Tyr Ile Lys Ala Phe Phe Gly Glu Gly Lys Glu Thr
465                 470                 475                 480

Asn Arg Asp Glu Ser Phe Tyr Gly Asp Phe Val Leu Ala Tyr Asp Ile
                485                 490                 495

Leu Leu Lys Val Asp His Ile Tyr Asp Ala Ile Arg Asn Tyr Val Thr
            500                 505                 510

Gln Lys Pro Tyr Ser Lys Asp Lys Phe Lys Leu Tyr Phe Gln Asn Pro
        515                 520                 525

Gln Phe Met Gly Gly Trp Asp Lys Asp Lys Glu Thr Asp Tyr Arg Ala
    530                 535                 540

Thr Ile Leu Arg Tyr Gly Ser Lys Tyr Tyr Leu Ala Ile Met Asp Lys
545                 550                 555                 560

Lys Tyr Ala Lys Cys Leu Gln Lys Ile Asp Lys Asp Asp Val Asn Gly
                565                 570                 575

Asn Tyr Glu Lys Ile Asn Tyr Lys Leu Leu Pro Gly Pro Asn Lys Met
            580                 585                 590
```

```
Leu Pro Lys Val Phe Phe Ser Lys Lys Trp Met Ala Tyr Tyr Asn Pro
        595                 600                 605

Ser Glu Asp Ile Gln Lys Ile Tyr Lys Asn Gly Thr Phe Lys Lys Gly
    610                 615                 620

Asp Met Phe Asn Leu Asn Asp Cys His Lys Leu Ile Asp Phe Phe Lys
625                 630                 635                 640

Asp Ser Ile Ser Arg Tyr Pro Lys Trp Ser Asn Ala Tyr Asp Phe Asn
                645                 650                 655

Phe Ser Glu Thr Glu Lys Tyr Lys Asp Ile Ala Gly Phe Tyr Arg Glu
            660                 665                 670

Val Glu Glu Gln Gly Tyr Lys Val Ser Phe Glu Ser Ala Ser Lys Lys
        675                 680                 685

Glu Val Asp Lys Leu Val Glu Glu Gly Lys Leu Tyr Met Phe Gln Ile
    690                 695                 700

Tyr Asn Lys Asp Phe Ser Asp Lys Ser His Gly Thr Pro Asn Leu His
705                 710                 715                 720

Thr Met Tyr Phe Lys Leu Leu Phe Asp Glu Asn Asn His Gly Gln Ile
                725                 730                 735

Arg Leu Ser Gly Gly Ala Glu Leu Phe Met Arg Arg Ala Ser Leu Lys
            740                 745                 750

Lys Glu Glu Leu Val Val His Pro Ala Asn Ser Pro Ile Ala Asn Lys
        755                 760                 765

Asn Pro Asp Asn Pro Lys Lys Thr Thr Thr Leu Ser Tyr Asp Val Tyr
    770                 775                 780

Lys Asp Lys Arg Phe Ser Glu Asp Gln Tyr Glu Leu His Ile Pro Ile
785                 790                 795                 800
```

```
Ala Ile Asn Lys Cys Pro Lys Asn Ile Phe Lys Ile Asn Thr Glu Val
                805                 810                 815

Arg Val Leu Leu Lys His Asp Asp Asn Pro Tyr Val Ile Gly Ile Asp
            820                 825                 830

Arg Gly Glu Arg Asn Leu Leu Tyr Ile Val Val Val Asp Gly Lys Gly
        835                 840                 845

Asn Ile Val Glu Gln Tyr Ser Leu Asn Glu Ile Ile Asn Asn Phe Asn
    850                 855                 860

Gly Ile Arg Ile Lys Thr Asp Tyr His Ser Leu Leu Asp Lys Lys Glu
865                 870                 875                 880

Lys Glu Arg Phe Glu Ala Arg Gln Asn Trp Thr Ser Ile Glu Asn Ile
                885                 890                 895

Lys Glu Leu Lys Ala Gly Tyr Ile Ser Gln Val Val His Lys Ile Cys
            900                 905                 910

Glu Leu Val Glu Lys Tyr Asp Ala Val Ile Ala Leu Glu Asp Leu Asn
        915                 920                 925

Ser Gly Phe Lys Asn Ser Arg Val Lys Val Glu Lys Gln Val Tyr Gln
    930                 935                 940

Lys Phe Glu Lys Met Leu Ile Asp Lys Leu Asn Tyr Met Val Asp Lys
945                 950                 955                 960

Lys Ser Asn Pro Cys Ala Thr Gly Gly Ala Leu Lys Gly Tyr Gln Ile
                965                 970                 975

Thr Asn Lys Phe Glu Ser Phe Lys Ser Met Ser Thr Gln Asn Gly Phe
            980                 985                 990

Ile Phe Tyr Ile Pro Ala Trp Leu  Thr Ser Lys Ile Asp  Pro Ser Thr
        995                 1000                1005
```

```
Gly Phe  Val Asn Leu Leu Lys  Thr Lys Tyr Thr Ser  Ile Ala Asp
    1010                1015                1020

Ser Lys  Lys Phe Ile Ser Ser  Phe Asp Arg Ile Met  Tyr Val Pro
    1025                1030                1035

Glu Glu  Asp Leu Phe Glu Phe  Ala Leu Asp Tyr Lys  Asn Phe Ser
    1040                1045                1050

Arg Thr  Asp Ala Asp Tyr Ile  Lys Lys Trp Lys Leu  Tyr Ser Tyr
    1055                1060                1065

Gly Asn  Arg Ile Arg Ile Phe  Arg Asn Pro Lys Lys  Asn Asn Val
    1070                1075                1080

Phe Asp  Trp Glu Glu Val Cys  Leu Thr Ser Ala Tyr  Lys Glu Leu
    1085                1090                1095

Phe Asn  Lys Tyr Gly Ile Asn  Tyr Gln Gln Gly Asp  Ile Arg Ala
    1100                1105                1110

Leu Leu  Cys Glu Gln Ser Asp  Lys Ala Phe Tyr Ser  Ser Phe Met
    1115                1120                1125

Ala Leu  Met Ser Leu Met Leu  Gln Met Arg Asn Ser  Ile Thr Gly
    1130                1135                1140

Arg Thr  Asp Val Asp Phe Leu  Ile Ser Pro Val Lys  Asn Ser Asp
    1145                1150                1155

Gly Ile  Phe Tyr Asp Ser Arg  Asn Tyr Glu Ala Gln  Glu Asn Ala
    1160                1165                1170

Ile Leu  Pro Lys Asn Ala Asp  Ala Asn Gly Ala Tyr  Asn Ile Ala
    1175                1180                1185

Arg Lys  Val Leu Trp Ala Ile  Gly Gln Phe Lys Lys  Ala Glu Asp
    1190                1195                1200

Glu Lys  Leu Asp Lys Val Lys  Ile Ala Ile Ser Asn  Lys Glu Trp
```

1205 1210 1215

Leu Glu Tyr Ala Gln Thr Ser Val Lys His
1220 1225

<210> 3727
<211> 1206
<212> PRT
<213> Lachnospiraceae bacterium

<400> 3727

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

Arg Asn Glu Leu Ile Pro Ile Gly Lys Thr Leu Asp Asn Ile Arg Gln
20 25 30

Asn Asn Ile Leu Glu Ser Asp Val Lys Arg Lys Gln Asn Tyr Glu His
35 40 45

Val Lys Gly Ile Leu Asp Glu Tyr His Lys Gln Leu Ile Asn Glu Ala
50 55 60

Leu Asp Asn Cys Thr Leu Pro Ser Leu Lys Ile Ala Ala Glu Ile Tyr
65 70 75 80

Leu Lys Asn Gln Lys Glu Val Ser Asp Arg Glu Asp Phe Asn Lys Thr
85 90 95

Gln Asp Leu Leu Arg Lys Glu Val Val Glu Lys Leu Lys Ala His Glu
100 105 110

Asn Phe Thr Lys Ile Gly Lys Lys Asp Ile Leu Asp Leu Leu Glu Lys
115 120 125

Leu Pro Ser Ile Ser Glu Asp Asp Tyr Asn Ala Leu Glu Ser Phe Arg
130 135 140

Asn Phe Tyr Thr Tyr Phe Thr Ser Tyr Asn Lys Val Arg Glu Asn Leu
145 150 155 160

```
Tyr Ser Asp Lys Glu Lys Ser Ser Thr Val Ala Tyr Arg Leu Ile Asn
                165                 170                 175

Glu Asn Phe Pro Lys Phe Leu Asp Asn Val Lys Ser Tyr Arg Phe Val
            180                 185                 190

Lys Thr Ala Gly Ile Leu Ala Asp Gly Leu Gly Glu Glu Glu Gln Asp
        195                 200                 205

Ser Leu Phe Ile Val Glu Thr Phe Asn Lys Thr Leu Thr Gln Asp Gly
    210                 215                 220

Ile Asp Thr Tyr Asn Ser Gln Val Gly Lys Ile Asn Ser Ser Ile Asn
225                 230                 235                 240

Leu Tyr Asn Gln Lys Asn Gln Lys Ala Asn Gly Phe Arg Lys Ile Pro
                245                 250                 255

Lys Met Lys Met Leu Tyr Lys Gln Ile Leu Ser Asp Arg Glu Glu Ser
            260                 265                 270

Phe Ile Asp Glu Phe Gln Ser Asp Glu Val Leu Ile Asp Asn Val Glu
        275                 280                 285

Ser Tyr Gly Ser Val Leu Ile Glu Ser Leu Lys Ser Ser Lys Val Ser
    290                 295                 300

Ala Phe Phe Asp Ala Leu Arg Glu Ser Lys Gly Lys Asn Val Tyr Val
305                 310                 315                 320

Lys Asn Asp Leu Ala Lys Thr Ala Met Ser Asn Ile Val Phe Glu Asn
                325                 330                 335

Trp Arg Thr Phe Asp Asp Leu Leu Asn Gln Glu Tyr Asp Leu Ala Asn
            340                 345                 350

Glu Asn Lys Lys Lys Asp Asp Lys Tyr Phe Glu Lys Arg Gln Lys Glu
        355                 360                 365
```

```
Leu Lys Lys Asn Lys Ser Tyr Ser Leu Glu His Leu Cys Asn Leu Ser
    370                 375                 380

Glu Asp Ser Cys Asn Leu Ile Glu Asn Tyr Ile His Gln Ile Ser Asp
385                 390                 395                 400

Asp Ile Glu Asn Ile Ile Ile Asn Asn Glu Thr Phe Leu Arg Ile Val
                405                 410                 415

Ile Asn Glu His Asp Arg Ser Arg Lys Leu Ala Lys Asn Arg Lys Ala
            420                 425                 430

Val Lys Ala Ile Lys Asp Phe Leu Asp Ser Ile Lys Val Leu Glu Arg
        435                 440                 445

Glu Leu Lys Leu Ile Asn Ser Ser Gly Gln Glu Leu Glu Lys Asp Leu
    450                 455                 460

Ile Val Tyr Ser Ala His Glu Glu Leu Leu Val Glu Leu Lys Gln Val
465                 470                 475                 480

Asp Ser Leu Tyr Asn Met Thr Arg Asn Tyr Leu Thr Lys Lys Pro Phe
                485                 490                 495

Ser Thr Glu Lys Val Lys Leu Asn Phe Asn Arg Ser Thr Leu Leu Asn
            500                 505                 510

Gly Trp Asp Arg Asn Lys Glu Thr Asp Asn Leu Gly Val Leu Leu Leu
        515                 520                 525

Lys Asp Gly Lys Tyr Tyr Leu Gly Ile Met Asn Thr Ser Ala Asn Lys
    530                 535                 540

Ala Phe Val Asn Pro Pro Val Ala Lys Thr Glu Lys Val Phe Lys Lys
545                 550                 555                 560

Val Asp Tyr Lys Leu Leu Pro Val Pro Asn Gln Met Leu Pro Lys Val
                565                 570                 575

Phe Phe Ala Lys Ser Asn Ile Asp Phe Tyr Asn Pro Ser Ser Glu Ile
```

```
            580                 585                 590

Tyr Ser Asn Tyr Lys Lys Gly Thr His Lys Lys Gly Asn Met Phe Ser
        595                 600                 605

Leu Glu Asp Cys His Asn Leu Ile Asp Phe Phe Lys Glu Ser Ile Ser
    610                 615                 620

Lys His Glu Asp Trp Ser Lys Phe Gly Phe Lys Phe Ser Asp Thr Ala
625                 630                 635                 640

Ser Tyr Asn Asp Ile Ser Glu Phe Tyr Arg Glu Val Glu Lys Gln Gly
                645                 650                 655

Tyr Lys Leu Thr Tyr Thr Asp Ile Asp Glu Thr Tyr Ile Asn Asp Leu
            660                 665                 670

Ile Glu Arg Asn Glu Leu Tyr Leu Phe Gln Ile Tyr Asn Lys Asp Phe
        675                 680                 685

Ser Met Tyr Ser Lys Gly Lys Leu Asn Leu His Thr Leu Tyr Phe Met
    690                 695                 700

Met Leu Phe Asp Gln Arg Asn Ile Asp Asp Val Val Tyr Lys Leu Asn
705                 710                 715                 720

Gly Glu Ala Glu Val Phe Tyr Arg Pro Ala Ser Ile Ser Glu Asp Glu
                725                 730                 735

Leu Ile Ile His Lys Ala Gly Glu Glu Ile Lys Asn Lys Asn Pro Asn
            740                 745                 750

Arg Ala Arg Thr Lys Glu Thr Ser Thr Phe Ser Tyr Asp Ile Val Lys
        755                 760                 765

Asp Lys Arg Tyr Ser Lys Asp Lys Phe Thr Leu His Ile Pro Ile Thr
    770                 775                 780

Met Asn Phe Gly Val Asp Glu Val Lys Arg Phe Asn Asp Ala Val Asn
785                 790                 795                 800
```

```
Ser Ala Ile Arg Ile Asp Glu Asn Val Asn Val Ile Gly Ile Asp Arg
                805                 810                 815

Gly Glu Arg Asn Leu Leu Tyr Val Val Val Ile Asp Ser Lys Gly Asn
            820                 825                 830

Ile Leu Glu Gln Ile Ser Leu Asn Ser Ile Ile Asn Lys Glu Tyr Asp
        835                 840                 845

Ile Glu Thr Asp Tyr His Ala Leu Leu Asp Glu Arg Glu Gly Gly Arg
    850                 855                 860

Asp Lys Ala Arg Lys Asp Trp Asn Thr Val Glu Asn Ile Arg Asp Leu
865                 870                 875                 880

Lys Ala Gly Tyr Leu Ser Gln Val Val Asn Val Val Ala Lys Leu Val
                885                 890                 895

Leu Lys Tyr Asn Ala Ile Ile Cys Leu Glu Asp Leu Asn Phe Gly Phe
            900                 905                 910

Lys Arg Gly Arg Gln Lys Val Glu Lys Gln Val Tyr Gln Lys Phe Glu
        915                 920                 925

Lys Met Leu Ile Asp Lys Leu Asn Tyr Leu Val Ile Asp Lys Ser Arg
    930                 935                 940

Glu Gln Thr Ser Pro Lys Glu Leu Gly Gly Ala Leu Asn Ala Leu Gln
945                 950                 955                 960

Leu Thr Ser Lys Phe Lys Ser Phe Lys Glu Leu Gly Lys Gln Ser Gly
                965                 970                 975

Val Ile Tyr Tyr Val Pro Ala Tyr Leu Thr Ser Lys Ile Asp Pro Thr
            980                 985                 990

Thr Gly Phe Ala Asn Leu Phe Tyr  Met Lys Cys Glu Asn  Val Glu Lys
        995                 1000                1005
```

```
Ser Lys  Arg Phe Phe Asp Gly  Phe Asp Phe Ile Arg  Phe Asn Ala
    1010                1015                1020

Leu Glu  Asn Val Phe Glu Phe  Gly Phe Asp Tyr Arg  Ser Phe Thr
    1025                1030                1035

Gln Arg  Ala Cys Gly Ile Asn  Ser Lys Trp Thr Val  Cys Thr Asn
    1040                1045                1050

Gly Glu  Arg Ile Ile Lys Tyr  Arg Asn Pro Asp Lys  Asn Asn Met
    1055                1060                1065

Phe Asp  Glu Lys Val Val Val  Val Thr Asp Glu Met  Lys Asn Leu
    1070                1075                1080

Phe Glu  Gln Tyr Lys Ile Pro  Tyr Glu Asp Gly Arg  Asn Val Lys
    1085                1090                1095

Asp Met  Ile Ile Ser Asn Glu  Glu Ala Glu Phe Tyr  Arg Arg Leu
    1100                1105                1110

Tyr Arg  Leu Leu Gln Gln Thr  Leu Gln Met Arg Asn  Ser Thr Ser
    1115                1120                1125

Asp Gly  Thr Arg Asp Tyr Ile  Ile Ser Pro Val Lys  Asn Lys Arg
    1130                1135                1140

Glu Ala  Tyr Phe Asn Ser Glu  Leu Ser Asp Gly Ser  Val Pro Lys
    1145                1150                1155

Asp Ala  Asp Ala Asn Gly Ala  Tyr Asn Ile Ala Arg  Lys Gly Leu
    1160                1165                1170

Trp Val  Leu Glu Gln Ile Arg  Gln Lys Ser Glu Gly  Glu Lys Ile
    1175                1180                1185

Asn Leu  Ala Met Thr Asn Ala  Glu Trp Leu Glu Tyr  Ala Gln Thr
    1190                1195                1200
```

His Leu Leu
    1205