SEQUENCE LISTING

<110> Cleveland Clinic Foundation

<120> VACCINE ADJUVANTS AND FORMULATIONS

<130> CCI-005 WO

<150> 62/806,422
<151> 2019-02-15

<160> 5

<170> PatentIn version 3.5

<210> 1
<211> 142
<212> PRT
<213> Homo sapiens

<400> 1

```
Met Arg Phe Phe Val Pro Leu Phe Leu Val Gly Ile Leu Phe Pro Ala
1               5                  10                  15


Ile Leu Ala Lys Gln Phe Thr Lys Cys Glu Leu Ser Gln Leu Leu Lys
            20                  25                  30


Asp Ile Asp Gly Tyr Gly Gly Ile Ala Leu Pro Glu Leu Ile Cys Thr
        35                  40                  45


Met Phe His Thr Ser Gly Tyr Asp Thr Gln Ala Ile Val Glu Asn Asn
    50                  55                  60


Glu Ser Thr Glu Tyr Gly Leu Phe Gln Ile Ser Asn Lys Leu Trp Cys
65                  70                  75                  80


Lys Ser Ser Gln Val Pro Gln Ser Arg Asn Ile Cys Asp Ile Ser Cys
                85                  90                  95


Asp Lys Phe Leu Asp Asp Asp Ile Thr Asp Asp Ile Met Cys Ala Lys
            100                 105                 110
```

Lys Ile Leu Asp Ile Lys Gly Ile Asp Tyr Trp Leu Ala His Lys Ala
115 120 125

Leu Cys Thr Glu Lys Leu Glu Gln Trp Leu Cys Glu Lys Leu
130 135 140

<210> 2
<211> 742
<212> DNA
<213> Homo sapiens

<400> 2
atttcaggtt cttgggggta gccaaaatga ggttctttgt ccctctgttc ctggtgggca 60

tcctgttccc tgccatcctg gccaagcaat tcacaaaatg tgagctgtcc cagctgctga 120

aagacataga tggttatgga ggcatcgctt tgcctgaatt gatctgtacc atgtttcaca 180

ccagtggtta tgacacacaa gccatagttg aaaacaatga aagcacggaa tatggactct 240

tccagatcag taataagctt tggtgcaaga gcagccaggt ccctcagtca aggaacatct 300

gtgacatctc ctgtgacaag ttcctggatg atgacattac tgatgacata atgtgtgcca 360

agaagatcct ggatattaaa ggaattgact actggttggc ccataaagcc ctctgcactg 420

agaagctgga acagtggctt tgtgagaagt tgtgagtgtc tgctgtcctt ggcacccctg 480

cccactccac actcctggaa tacctcttcc ctaatgccac ctcagtttgt ttctttctgt 540

tcccccaaag cttatctgtc tctgagcctt gggccctgta gtgacatcac cgaattcttg 600

aagactattt tccagggatg cctgagtggt gcactgagct ctagaccctt actcagtgcc 660

ttcgatggca ctttcactac agcacagatt tcacctctgt cttgaataaa ggtcccactt 720

tgaagtcaaa aaaaaaaaaa aa 742

<210> 3
<211> 143
<212> PRT
<213> Mus musculus

<400> 3

Met Met His Phe Val Pro Leu Phe Leu Val Cys Ile Leu Ser Leu Pro
1 5 10 15

```
Ala Phe Gln Ala Thr Glu Leu Thr Lys Cys Lys Val Ser His Ala Ile
            20                  25                  30

Lys Asp Ile Asp Gly Tyr Gln Gly Ile Ser Leu Leu Glu Trp Ala Cys
        35                  40                  45

Val Leu Phe His Thr Ser Gly Tyr Asp Thr Gln Ala Val Val Asn Asp
    50                  55                  60

Asn Gly Ser Thr Glu Tyr Gly Leu Phe Gln Ile Ser Asp Arg Phe Trp
65                  70                  75                  80

Cys Lys Ser Ser Glu Phe Pro Glu Ser Glu Asn Ile Cys Gly Ile Ser
                85                  90                  95

Cys Asp Lys Leu Leu Asp Asp Glu Leu Asp Asp Asp Ile Ala Cys Ala
            100                 105                 110

Lys Lys Ile Leu Ala Ile Lys Gly Ile Asp Tyr Trp Lys Ala Tyr Lys
        115                 120                 125

Pro Met Cys Ser Glu Lys Leu Glu Gln Trp Arg Cys Glu Lys Pro
    130                 135                 140
```

<210> 4
<211> 733
<212> DNA
<213> Mus musculus

<400> 4

```
ggagcagtca aaatgatgca tttcgttcct ttgttcctgg tgtgtatttt gtcgttgcct       60

gcctttcaag ccacagagct tacaaaatgc aaggtgtccc atgccattaa agacatagat      120

ggctatcaag gcatctcttt gcttgaatgg gcctgtgttt tatttcatac cagtggctac      180

gacacacaag ctgttgtcaa cgacaacggc agcacagagt acggactctt ccagatcagt      240

gacagatttt ggtgtaaaag tagtgagttc cccgagtcgg agaacatctg tggcatctcc      300
```

tgtgacaagt tattggatga cgagttggat gatgacatag cgtgtgccaa gaagatcctg 360

gctatcaaag gaatcgacta ctggaaagcc tacaagccca tgtgctctga gaagcttgaa 420

cagtggcgtt gtgagaagcc ctgagccccc ccccccccc cccccgtcct tgctgctcct 480

gccccgtggt caggaatgcc tcttccctaa ggctacctca gcttggctct tgctattcct 540

gtgaagatga tctgcctctg agccttgtac cctgtagtga caccaccgga ctctagagga 600

ctttttttc cctatgggag tgtgactggc gcactggact gcaaaccctt gcttagtgac 660

ggcgagggtc tcgatggggg ttttacaaaa tcgagagagc cctctcctgt cccaaataaa 720

gggccagact tga 733

<210> 5
<211> 123
<212> PRT
<213> Homo sapiens

<400> 5

Lys Gln Phe Thr Lys Cys Glu Leu Ser Gln Leu Leu Lys Asp Ile Asp
1 5 10 15

Gly Tyr Gly Gly Ile Ala Leu Pro Glu Leu Ile Cys Thr Met Phe His
20 25 30

Thr Ser Gly Tyr Asp Thr Gln Ala Ile Val Glu Asn Asn Glu Ser Thr
35 40 45

Glu Tyr Gly Leu Phe Gln Ile Ser Asn Lys Leu Trp Cys Lys Ser Ser
50 55 60

Gln Val Pro Gln Ser Arg Asn Ile Cys Asp Ile Ser Cys Asp Lys Phe
65 70 75 80

Leu Asp Asp Asp Ile Thr Asp Asp Ile Met Cys Ala Lys Lys Ile Leu
85 90 95

Asp Ile Lys Gly Ile Asp Tyr Trp Leu Ala His Lys Ala Leu Cys Thr
100 105 110

```
Glu Lys Leu Glu Gln Trp Leu Cys Glu Lys Leu
        115                 120
```