

SEQUENCE LISTING

<110> Flagship Pioneering Innovations VI, LLC.

<120> METHODS FOR MANUFACTURING PLANT MESSENGER PACKS

<130> 51296-007W03

<150> US 62/722,613

<151> 2018-08-24

<160> 13

<170> PatentIn version 3.5

<210> 1

<211> 3

<212> DNA

<213> Streptococcus pyogenes

<220>

<221> misc_feature

<222> (1)..(1)

<223> n is a, c, g, or t

<400> 1

ngg

3

<210> 2

<211> 6

<212> DNA

<213> Streptococcus thermophilus

<220>

<221> misc_feature

<222> (1)..(2)

<223> n is a, c, g, or t

<400> 2

nnagaa

6

<210> 3

<211> 5

<212> DNA

<213> Streptococcus thermophilus

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<400> 3
nggng

5

<210> 4
<211> 7
<212> DNA
<213> Neisseria meningitidis

<220>
<221> misc_feature
<222> (1)..(3)
<223> n is a, c, g, or t

<400> 4
nnngatt

7

<210> 5
<211> 3
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<400> 5
ttn

3

<210> 6
<211> 3

<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 6
cta

3

<210> 7
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 7

Gln Arg Leu Ser Thr Gly Ser Arg Ile Asn Ser Ala Lys Asp Asp Ala
1 5 10 15

Ala Gly Leu Gln Ile Ala
20

<210> 8
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<220>
<221> MOD_RES
<222> (1)..(1)
<223> ACETYLATION

<400> 8

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

Ile Gly

<210> 9
<211> 1937
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 9
acgacccatgg accatggccg tcgatagccg aatggatctg ctcagcgaag gagctgtgct 60
gatgagagag tctctccaga agagtcaaac catcaccgat aatgtcgtct ccatcctcgg 120
ctccttcgat agccgtctct ctgctcttga atccgccatg cgtcccactc agattagaac 180
gcatgcgata aggaaaagctc acgagaatat cgataagact ctcaaaccg ctgagggttat 240
tctctctcag ttgatctcc tccgtcaggc agagactaaa gtactcaagg ggccacatga 300
ggacctggag agttatttgg aggcaatagc tcaactcaga aaagttattc gttattttag 360
cagcaacaaa ggctttaaga acagtgatgg agtcctcaac catgcaaata gcttgcttgc 420
caaagctcag tcgaagctgg aggaggagtt taaacagttg ctagcttctt acagcaaagc 480
tgtggagcct gatcgccctt ttgatggcct tcctaactca ctgagaccat ccgctgacgg 540
tgagggtaat ggaaaagccc acggaggaca ccataacgat gactcagaaa ctgctgctta 600
tacacttcca gtcctcattc catcaagggt attgccactt ttgcatgatt tggctcagca 660
aatggttcag gctggtcacc agcaactgct gctacaaatt tatagagaaa cacgtacttt 720
tgtattggaa gagagcttaa gaaaattggg agttgaaaaa cttagcaaag aggatgttca 780
gaggatgcag tgggaagttt tggaggccaa aattggaaat tggatccatt tcatgcgcat 840
tgctgttaaa ttgctctttg ctggagaaaag gcaagtatgt gaccagatat tccgaggctt 900
cgattctctt agtgatcagt gttttgcaga agttacagtg agcagtgtct caatgctact 960
tagctttggg gatgccatag ctaggagcaa gagatctcca gaaaagttgt ttgtactctt 1020
agacatgtat gaaataatgc gggagcttca ttcagagatt gagacaattt tcaaaggtaa 1080
agcatgcctt gaaattagaa actctgtctac ggggttgaca aagcggctgg cgcagactgc 1140
tcaggaaaca ttggtgact tcgaagaagc tgtagaaaaa gatgctacaa agactgctgt 1200

tctagatggg actgtccacc cactaacaag ctatgttatc aattatgtca agttcttatt	1260
tgactaccaaa gcgactttga agcaactttt ctcggaattt ggaaatggag atgactcgaa	1320
ctctcagctt gcatccgtaa caatgaggat aatgcaggcg cttcaaaaaca acctggaggg	1380
aaaatcgaaa cagtacaaaag atcaagcact gacacacttg ttcttgatga acaacataca	1440
ttacatgggt agatctgtgc gcaggtcaga agccaaggat ttgttaggcg atgattgggt	1500
tcaaaggcac aggcgtgtcg ttcagcaaca tgcaaacctt taaaaagga ctgcttgga	1560
aaagatatta caaacctcgt cggcgcaagg gttgacctca tccggaggag gaagtgtaga	1620
gggaggaaac agcagcggag tttcgagagg gttactgaaa gagagggtca agatgttcaa	1680
tatgcaattt gatgagttgc atcagagaca atcacaatgg acagttccgg acacagagct	1740
aagagagtca ctaagacttg ctgttgctga agtattattg cctgcttaca gatcattcct	1800
caaacgcttt gggcctctgg ttgagagtgg gaagaattct cagagataca taaagtatac	1860
agctgaagat cttgagagat tgttgggtga gttgtttgaa ggaaagtcta tgaacgaacc	1920
acgacggcca tggacga	1937

<210> 10
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 10	
cgcccgggat ggccgtcgat agccgaa	27

<210> 11
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Synthetic Construct

<400> 11	
cgcgggccct taccgtcgtg gttcattcat	30

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 12
ggctgatggg gaagatattc a 21

<210> 13
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic Construct

<400> 13
caagcacaat accagtagta c 21