SEQUENCE LISTING

<110> ONCOTHERAPY SCIENCE, INC.

<120> CDC45L PEPTIDES AND VACCINES INCLUDING THE SAME

<130> ONC-A0909P

<150> US 61/217,133
<151> 2009-05-26

<160> 26

<170> PatentIn version 3.5

<210> 1
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 1

Lys Tyr Val Thr Asp Val Gly Val Leu
1 5

<210> 2
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 2

Val Tyr Asn Asp Thr Gln Ile Lys Leu
1 5

<210> 3
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 3

Ser Tyr Thr Ala Ala Arg Phe Lys Leu
1 5

<210> 4
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 4

Lys Phe Leu Asp Ala Leu Ile Ser Leu

1 5

<210> 5
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 5

Lys Phe Gln Ala Met Asp Ile Ser Leu
1 5

<210> 6
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 6

His Phe Ile Gln Ala Leu Asp Ser Leu
1 5

<210> 7
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 7

Lys Phe Leu Ala Ser Asp Val Val Phe
1 5

<210> 8
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 8

Glu Tyr His Gly Thr Ser Ser Ala Met
1 5

<210> 9
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 9

His Phe Asp Leu Ser Val Ile Glu Leu
1 5

<210> 10
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 10

His Phe Gly Phe Lys His Lys Phe Leu
1 5

<210> 11
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 11

Val Tyr Asn Asp Thr Gln Ile Lys Leu Leu
1 5 10

<210> 12
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 12

Lys Phe Leu Asp Ala Leu Ile Ser Leu Leu
1 5 10

<210> 13
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 13

Ser Phe Glu Tyr Asp Leu Arg Leu Val Leu
1 5 10

<210> 14
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 14

Glu Phe Leu Ala Asp Met Gly Leu Pro Leu
1 5 10

<210> 15
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 15

Leu Phe Val Ala Ser Asp Val Asp Ala Leu
1 5 10

<210> 16
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 16

Leu Phe Ser Arg Pro Ala Ser Leu Ser Leu
1 5 10

<210> 17
<211> 1938
<212> DNA
<213> Homo sapiens

<400> 17
gatttggcgg gagtcttgac cgccgccggg ctcttggtac ctcagcgcga gcgccaggcg 60

tccggccgcc gtggctatgt tcgtgtccga tttccgcaaa gagttctacg aggtggtcca 120

gagccagagg gtccttctct tcgtggcctc ggacgtggat gctctgtgtg cgtgcaagat 180

ccttcaggcc ttgttccagt gtgaccacgt gcaatatacg ctggttccag tttctgggtg 240

gcaagaactt gaaactgcat ttcttgagca taaagaacag tttcattatt ttattctcat 300

aaactgtgga gctaatgtag acctattgga tattcttcaa cctgatgaag acactatatt 360

ctttgtgtgt gacacccata ggccagtcaa tgtcgtcaat gtatacaacg atacccagat 420

caaattactc attaaacaag atgatgacct tgaagttccc gcctatgaag acatcttcag 480

ggatgaagag gaggatgaag agcattcagg aaatgacagt gatgggtcag agccttctga 540

gaagcgcaca cggttagaag aggagatagt ggagcaaacc atgcggagga ggcagcggcg 600

agagtgggag gcccggagaa gagacatcct ctttgactac gagcagtatg aatatcatgg 660

gacatcgtca gccatggtga tgtttgagct ggcttggatg ctgtccaagg acctgaatga 720

catgctgtgg tgggccatcg ttggactaac agaccagtgg gtgcaagaca agatcactca 780

aatgaaatac gtgactgatg ttggtgtcct gcagcgccac gtttcccgcc acaaccaccg 840

gaacgaggat gaggagaaca cactctccgt ggactgcaca cggatctcct ttgagtatga 900

cctccgcctg gtgctctacc agcactggtc cctccatgac agcctgtgca acaccagcta 960

taccgcagcc aggttcaagc tgtggtctgt gcatggacag aagcggctcc aggagttcct 1020

tgcagacatg ggtcttcccc tgaagcaggt gaagcagaag ttccaggcca tggacatctc 1080

cttgaaggag aatttgcggg aaatgattga agagtctgca aataaatttg ggatgaagga 1140

catgcgcgtg cagactttca gcattcattt tgggttcaag cacaagtttc tggccagcga 1200

cgtggtcttt gccaccatgt ctttgatgga gagccccgag aaggatggct cagggacaga 1260

tcacttcatc caggctctgg acagcctctc caggagtaac ctggacaagc tgtaccatgg 1320

cctggaactc gccaagaagc agctgcgagc cacccagcag accattgcca gctgcctttg 1380

caccaacctc gtcatctccc aggggccttt cctgtactgc tctctcatgg agggcactcc 1440

agatgtcatg ctgttctcta ggccggcatc cctaagcctg ctcagcaaac acctgctcaa 1500

gtcctttgtg tgttcgacaa agaaccggcg ctgcaaactg ctgcccctgg tgatggctgc 1560

ccccctgagc atggagcatg gcacagtgac cgtggtgggc atccccccag agaccgacag 1620

ctcggacagg aagaactttt ttgggagggc gtttgagaag gcagcggaaa gcaccagctc 1680

ccggatgctg cacaaccatt ttgacctctc agtaattgag ctgaaagctg aggatcggag 1740

caagtttctg gacgcactta tttccctcct gtcctaggaa tttgattctt ccagaatgac 1800

cttcttattt atgtaactgg ctttcattta gattgtaagt tatggacatg atttgagatg 1860

tagaagccat tttttattaa ataaaatgct tattttaggc tccgtcccca aaaaaaaaaa 1920

aaaaaaaaaa aaaaaaaa 1938

<210> 18
<211> 566
<212> PRT
<213> Homo sapiens

<400> 18

Met Phe Val Ser Asp Phe Arg Lys Glu Phe Tyr Glu Val Val Gln Ser
1 5 10 15

Gln Arg Val Leu Leu Phe Val Ala Ser Asp Val Asp Ala Leu Cys Ala
20 25 30

Cys Lys Ile Leu Gln Ala Leu Phe Gln Cys Asp His Val Gln Tyr Thr
35 40 45

Leu Val Pro Val Ser Gly Trp Gln Glu Leu Glu Thr Ala Phe Leu Glu
50 55 60

His Lys Glu Gln Phe His Tyr Phe Ile Leu Ile Asn Cys Gly Ala Asn
65 70 75 80

Val Asp Leu Leu Asp Ile Leu Gln Pro Asp Glu Asp Thr Ile Phe Phe

85 90 95

Val Cys Asp Thr His Arg Pro Val Asn Val Val Asn Val Tyr Asn Asp
100 105 110

Thr Gln Ile Lys Leu Leu Ile Lys Gln Asp Asp Asp Leu Glu Val Pro
115 120 125

Ala Tyr Glu Asp Ile Phe Arg Asp Glu Glu Glu Asp Glu Glu His Ser
130 135 140

Gly Asn Asp Ser Asp Gly Ser Glu Pro Ser Glu Lys Arg Thr Arg Leu
145 150 155 160

Glu Glu Glu Ile Val Glu Gln Thr Met Arg Arg Arg Gln Arg Arg Glu
165 170 175

Trp Glu Ala Arg Arg Arg Asp Ile Leu Phe Asp Tyr Glu Gln Tyr Glu
180 185 190

Tyr His Gly Thr Ser Ser Ala Met Val Met Phe Glu Leu Ala Trp Met
195 200 205

Leu Ser Lys Asp Leu Asn Asp Met Leu Trp Trp Ala Ile Val Gly Leu
210 215 220

Thr Asp Gln Trp Val Gln Asp Lys Ile Thr Gln Met Lys Tyr Val Thr
225 230 235 240

Asp Val Gly Val Leu Gln Arg His Val Ser Arg His Asn His Arg Asn
245 250 255

Glu Asp Glu Glu Asn Thr Leu Ser Val Asp Cys Thr Arg Ile Ser Phe
260 265 270

Glu Tyr Asp Leu Arg Leu Val Leu Tyr Gln His Trp Ser Leu His Asp
275 280 285

Ser Leu Cys Asn Thr Ser Tyr Thr Ala Ala Arg Phe Lys Leu Trp Ser
290 295 300

Val His Gly Gln Lys Arg Leu Gln Glu Phe Leu Ala Asp Met Gly Leu
305 310 315 320

Pro Leu Lys Gln Val Lys Gln Lys Phe Gln Ala Met Asp Ile Ser Leu
325 330 335

Lys Glu Asn Leu Arg Glu Met Ile Glu Glu Ser Ala Asn Lys Phe Gly
340 345 350

Met Lys Asp Met Arg Val Gln Thr Phe Ser Ile His Phe Gly Phe Lys

355 360 365

His Lys Phe Leu Ala Ser Asp Val Val Phe Ala Thr Met Ser Leu Met
370 375 380

Glu Ser Pro Glu Lys Asp Gly Ser Gly Thr Asp His Phe Ile Gln Ala
385 390 395 400

Leu Asp Ser Leu Ser Arg Ser Asn Leu Asp Lys Leu Tyr His Gly Leu
405 410 415

Glu Leu Ala Lys Lys Gln Leu Arg Ala Thr Gln Gln Thr Ile Ala Ser
420 425 430

Cys Leu Cys Thr Asn Leu Val Ile Ser Gln Gly Pro Phe Leu Tyr Cys
435 440 445

Ser Leu Met Glu Gly Thr Pro Asp Val Met Leu Phe Ser Arg Pro Ala
450 455 460

Ser Leu Ser Leu Leu Ser Lys His Leu Leu Lys Ser Phe Val Cys Ser
465 470 475 480

Thr Lys Asn Arg Arg Cys Lys Leu Leu Pro Leu Val Met Ala Ala Pro
485 490 495

Leu Ser Met Glu His Gly Thr Val Thr Val Val Gly Ile Pro Pro Glu
500 505 510

Thr Asp Ser Ser Asp Arg Lys Asn Phe Phe Gly Arg Ala Phe Glu Lys
515 520 525

Ala Ala Glu Ser Thr Ser Ser Arg Met Leu His Asn His Phe Asp Leu
530 535 540

Ser Val Ile Glu Leu Lys Ala Glu Asp Arg Ser Lys Phe Leu Asp Ala
545 550 555 560

Leu Ile Ser Leu Leu Ser
565

<210> 19
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 19
ctggtgttgc acaggctgtc atgg 24

<210> 20

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

<220>
<223> Artificial sequence

<400> 20
cgcacacggt tagaagagga g 21

<210> 21
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 21

Arg Tyr Leu Arg Asp Gln Gln Leu Leu
1 5

<210> 22
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificially synthesized peptide sequence

<400> 22

Ser Leu Tyr Asn Thr Tyr Ala Thr Leu
1 5

<210> 23
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 23
gtctaccagg cattcgcttc at 22

<210> 24
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 24
tcagctggac cacagccgca gcgt 24

<210> 25
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 25
tcagaaatcc tttctcttga c 21

<210> 26
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Artificial sequence

<400> 26
ctagcctctg gaatcctttc tctt 24