SEQUENCE LISTING

<110> ONCOTHERAPY SCIENCE, INC.

<120> MODIFIED MELK PEPTIDES AND VACCINES CONTAINING THE SAME

<130> ONC-A1001P

<150> US 61/297,996
<151> 2010-01-25

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<170> PatentIn version 3.5

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gaa tta cat gaa act att ggg aca ggt ggc ttt gca aag gtc aaa ctt 219
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gcc tgc cat atc ctt act gga gag atg gta gct ata aaa atc atg gat 267
Ala Cys His Ile Leu Thr Gly Glu Met Val Ala Ile Lys Ile Met Asp
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aaa aac aca cta ggg agt gat ttg ccc cgg atc aaa acg gag att gag 315
Lys Asn Thr Leu Gly Ser Asp Leu Pro Arg Ile Lys Thr Glu Ile Glu
45 50 55

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Ala Leu Lys Asn Leu Arg His Gln His Ile Cys Gln Leu Tyr His Val
60 65 70 75

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gga gag ctg ttt gac tat ata att tcc cag gat cgc ctg tca gaa gag          459
Gly Glu Leu Phe Asp Tyr Ile Ile Ser Gln Asp Arg Leu Ser Glu Glu
            95                  100                 105

gag acc cgg gtt gtc ttc cgt cag ata gta tct gct gtt gct tat gtg          507
Glu Thr Arg Val Val Phe Arg Gln Ile Val Ser Ala Val Ala Tyr Val
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cac agc cag ggc tat gct cac agg gac ctc aag cca gaa aat ttg ctg          555
His Ser Gln Gly Tyr Ala His Arg Asp Leu Lys Pro Glu Asn Leu Leu
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ttt gat gaa tat cat aaa tta aag ctg att gac ttt ggt ctc tgt gca          603
Phe Asp Glu Tyr His Lys Leu Lys Leu Ile Asp Phe Gly Leu Cys Ala
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aaa ccc aag ggt aac aag gat tac cat cta cag aca tgc tgt ggg agt          651
Lys Pro Lys Gly Asn Lys Asp Tyr His Leu Gln Thr Cys Cys Gly Ser
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ctg gct tat gca gca cct gag tta ata caa ggc aaa tca tat ctt gga          699
Leu Ala Tyr Ala Ala Pro Glu Leu Ile Gln Gly Lys Ser Tyr Leu Gly
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tca gag gca gat gtt tgg agc atg ggc ata ctg tta tat gtt ctt atg          747
Ser Glu Ala Asp Val Trp Ser Met Gly Ile Leu Leu Tyr Val Leu Met
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tgt gga ttt cta cca ttt gat gat gat aat gta atg gct tta tac aag          795
Cys Gly Phe Leu Pro Phe Asp Asp Asp Asn Val Met Ala Leu Tyr Lys
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aag att atg aga gga aaa tat gat gtt ccc aag tgg ctc tct ccc agt          843
Lys Ile Met Arg Gly Lys Tyr Asp Val Pro Lys Trp Leu Ser Pro Ser
220                 225                 230                 235

agc att ctg ctt ctt caa caa atg ctg cag gtg gac cca aag aaa cgg          891
Ser Ile Leu Leu Leu Gln Gln Met Leu Gln Val Asp Pro Lys Lys Arg
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att tct atg aaa aat cta ttg aac cat ccc tgg atc atg caa gat tac          939
Ile Ser Met Lys Asn Leu Leu Asn His Pro Trp Ile Met Gln Asp Tyr
            255                 260                 265

aac tat cct gtt gag tgg caa agc aag aat cct ttt att cac ctc gat          987
Asn Tyr Pro Val Glu Trp Gln Ser Lys Asn Pro Phe Ile His Leu Asp
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gat gat tgc gta aca gaa ctt tct gta cat cac aga aac aac agg caa         1035
Asp Asp Cys Val Thr Glu Leu Ser Val His His Arg Asn Asn Arg Gln
    285                 290                 295

aca atg gag gat tta att tca ctg tgg cag tat gat cac ctc acg gct         1083
Thr Met Glu Asp Leu Ile Ser Leu Trp Gln Tyr Asp His Leu Thr Ala
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acc tat ctt ctg ctt cta gcc aag aag gct cgg gga aaa cca gtt cgt         1131
Thr Tyr Leu Leu Leu Leu Ala Lys Lys Ala Arg Gly Lys Pro Val Arg
                320                 325                 330

tta agg ctt tct tct ttc tcc tgt gga caa gcc agt gct acc cca ttc         1179
Leu Arg Leu Ser Ser Phe Ser Cys Gly Gln Ala Ser Ala Thr Pro Phe
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gat aaa aat tat gtg gcg gga tta ata gac tat gat tgg tgt gaa gat        1275
Asp Lys Asn Tyr Val Ala Gly Leu Ile Asp Tyr Asp Trp Cys Glu Asp
    365                 370                 375

gat tta tca aca ggt gct gct act ccc cga aca tca cag ttt acc aag        1323
Asp Leu Ser Thr Gly Ala Ala Thr Pro Arg Thr Ser Gln Phe Thr Lys
380                 385                 390                 395

tac tgg aca gaa tca aat ggg gtg gaa tct aaa tca tta act cca gcc        1371
Tyr Trp Thr Glu Ser Asn Gly Val Glu Ser Lys Ser Leu Thr Pro Ala
                400                 405                 410

tta tgc aga aca cct gca aat aaa tta aag aac aaa gaa aat gta tat        1419
Leu Cys Arg Thr Pro Ala Asn Lys Leu Lys Asn Lys Glu Asn Val Tyr
            415                 420                 425

act cct aag tct gct gta aag aat gaa gag tac ttt atg ttt cct gag        1467
Thr Pro Lys Ser Ala Val Lys Asn Glu Glu Tyr Phe Met Phe Pro Glu
        430                 435                 440

cca aag act cca gtt aat aag aac cag cat aag aga gaa ata ctc act        1515
Pro Lys Thr Pro Val Asn Lys Asn Gln His Lys Arg Glu Ile Leu Thr
    445                 450                 455

acg cca aat cgt tac act aca ccc tca aaa gct aga aac cag tgc ctg        1563
Thr Pro Asn Arg Tyr Thr Thr Pro Ser Lys Ala Arg Asn Gln Cys Leu
460                 465                 470                 475

aaa gaa act cca att aaa ata cca gta aat tca aca gga aca gac aag        1611
Lys Glu Thr Pro Ile Lys Ile Pro Val Asn Ser Thr Gly Thr Asp Lys
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Leu Met Thr Gly Val Ile Ser Pro Glu Arg Arg Cys Arg Ser Val Glu
            495                 500                 505

ttg gat ctc aac caa gca cat atg gag gag act cca aaa aga aag gga        1707
Leu Asp Leu Asn Gln Ala His Met Glu Glu Thr Pro Lys Arg Lys Gly
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gcc aaa gtg ttt ggg agc ctt gaa agg ggg ttg gat aag gtt atc act        1755
Ala Lys Val Phe Gly Ser Leu Glu Arg Gly Leu Asp Lys Val Ile Thr
    525                 530                 535

gtg ctc acc agg agc aaa agg aag ggt tct gcc aga gac ggg ccc aga        1803
Val Leu Thr Arg Ser Lys Arg Lys Gly Ser Ala Arg Asp Gly Pro Arg
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Arg Leu Lys Leu His Tyr Asn Val Thr Thr Thr Arg Leu Val Asn Pro
                560                 565                 570

gat caa ctg ttg aat gaa ata atg tct att ctt cca aag aag cat gtt        1899
Asp Gln Leu Leu Asn Glu Ile Met Ser Ile Leu Pro Lys Lys His Val
            575                 580                 585

gac ttt gta caa aag ggt tat aca ctg aag tgt caa aca cag tca gat        1947
Asp Phe Val Gln Lys Gly Tyr Thr Leu Lys Cys Gln Thr Gln Ser Asp
        590                 595                 600

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Phe Gly Lys Val Thr Met Gln Phe Glu Leu Glu Val Cys Gln Leu Gln
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Trp Val Tyr Lys Arg Leu Val Glu Asp Ile Leu Ser Ser Cys Lys Val
640 645 650

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Ser Asp Leu Pro Arg Ile Lys Thr Glu Ile Glu Ala Leu Lys Asn Leu
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Arg His Gln His Ile Cys Gln Leu Tyr His Val Leu Glu Thr Ala Asn
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Lys Ile Phe Met Val Leu Glu Tyr Cys Pro Gly Gly Glu Leu Phe Asp
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Tyr Ile Ile Ser Gln Asp Arg Leu Ser Glu Glu Glu Thr Arg Val Val
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Phe Arg Gln Ile Val Ser Ala Val Ala Tyr Val His Ser Gln Gly Tyr
115 120 125

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Lys Leu Lys Leu Ile Asp Phe Gly Leu Cys Ala Lys Pro Lys Gly Asn
145 150 155 160

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Lys Asp Tyr His Leu Gln Thr Cys Cys Gly Ser Leu Ala Tyr Ala Ala
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Pro Glu Leu Ile Gln Gly Lys Ser Tyr Leu Gly Ser Glu Ala Asp Val
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Trp Ser Met Gly Ile Leu Leu Tyr Val Leu Met Cys Gly Phe Leu Pro
        195                 200                 205

Phe Asp Asp Asp Asn Val Met Ala Leu Tyr Lys Lys Ile Met Arg Gly
    210                 215                 220

Lys Tyr Asp Val Pro Lys Trp Leu Ser Pro Ser Ser Ile Leu Leu Leu
225                 230                 235                 240

Gln Gln Met Leu Gln Val Asp Pro Lys Lys Arg Ile Ser Met Lys Asn
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Trp Gln Ser Lys Asn Pro Phe Ile His Leu Asp Asp Asp Cys Val Thr
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Glu Leu Ser Val His His Arg Asn Asn Arg Gln Thr Met Glu Asp Leu
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Asn Asn Trp Ser Leu Glu Asp Val Thr Ala Ser Asp Lys Asn Tyr Val
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Ala Gly Leu Ile Asp Tyr Asp Trp Cys Glu Asp Asp Leu Ser Thr Gly
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Ala Ala Thr Pro Arg Thr Ser Gln Phe Thr Lys Tyr Trp Thr Glu Ser
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Ala Asn Lys Leu Lys Asn Lys Glu Asn Val Tyr Thr Pro Lys Ser Ala
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485 490 495

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Ala His Met Glu Glu Thr Pro Lys Arg Lys Gly Ala Lys Val Phe Gly
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Ser Leu Glu Arg Gly Leu Asp Lys Val Ile Thr Val Leu Thr Arg Ser
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565 570 575

Glu Ile Met Ser Ile Leu Pro Lys Lys His Val Asp Phe Val Gln Lys
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Gly Tyr Thr Leu Lys Cys Gln Thr Gln Ser Asp Phe Gly Lys Val Thr
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