SEQUENCE LISTING

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<130> APMOL.03VPC2

<150> US 61/086,133
<151> 2008-08-04

<150> US 61/010,630
<151> 2008-01-09

<150> US 61/008,965
<151> 2007-12-21

<150> US 60/957,668
<151> 2007-08-23

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Ser Glu Glu Asp Gly Leu Ala Glu Ala Pro Glu His Gly Thr Thr Ala
            20                  25                  30
Thr Phe His Arg Cys Ala Lys Asp Pro Trp Arg Leu Pro Gly Thr Tyr
        35                  40                  45
Val Val Val Leu Lys Glu Glu Thr His Leu Ser Gln Ser Glu Arg Thr
    50                  55                  60
Ala Arg Arg Leu Gln Ala Gln Ala Ala Arg Arg Gly Tyr Leu Thr Lys
65                  70                  75                  80
Ile Leu His Val Phe His Gly Leu Leu Pro Gly Phe Leu Val Lys Met
                85                  90                  95
Ser Gly Asp Leu Leu Glu Leu Ala Leu Lys Leu Pro His Val Asp Tyr
            100                 105                 110
Ile Glu Glu Asp Ser Ser Val Phe Ala Gln Ser Ile Pro Trp Asn Leu
        115                 120                 125
Glu Arg Ile Thr Pro Pro Arg Tyr Arg Ala Asp Glu Tyr Gln Pro Pro
    130                 135                 140
Asp Gly Gly Ser Leu Val Glu Val Tyr Leu Leu Asp Thr Ser Ile Gln
145                 150                 155                 160
Ser Asp His Arg Glu Ile Glu Gly Arg Val Met Val Thr Asp Phe Glu
                165                 170                 175
Asn Val Pro Glu Glu Asp Gly Thr Arg Phe His Arg Gln Ala Ser Lys
            180                 185                 190
Cys Asp Ser His Gly Thr His Leu Ala Gly Val Val Ser Gly Arg Asp
        195                 200                 205
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Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln
 1               5                  10                  15
Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala
            20                  25                  30
Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
        35                  40                  45
Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser
    50                  55                  60
Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu
65                  70                  75                  80
Asp Glu Ala Asp Tyr Tyr Cys
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<400> 500

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



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Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp
 1               5                  10                  15


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<400> 504
Leu Gly Ser Asn Arg Ala Ser
 1               5


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Met Gln Thr Leu Gln Thr Pro Leu Thr
 1               5


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Gln Val Thr Leu Lys Glu Ser Gly Pro Val Leu Val Lys Pro Thr Glu
 1               5                  10                  15
Thr Leu Thr Leu Thr Cys Thr Val Ser
            20                  25


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<400> 507
Gly Phe Ser Leu Ser Asn Ala Arg Met Gly Val Ser
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1 5 10

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Gly Phe Ser Leu Ser Asn Val Arg Met Gly Val Ser
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<400> 509
Trp Ile Arg Gln Pro Pro Gly Lys Ala Leu Glu Trp Leu Ala
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Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
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Ser Leu Arg Leu Ser Cys Ala Ala Ser
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<400> 511
Gly Phe Thr Phe Ser Ser Tyr Trp Met Ser
1 5 10

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Gly Leu Thr Phe Ser Asn Phe Trp Met Ser
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<400> 513
Gly Phe Thr Phe Ser Asn Tyr Trp Met Thr
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Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
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Ser Leu Arg Leu Ser Cys Ala Ala Ser
            20   25

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Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Ala Gln Pro Gly Arg
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Ser Leu Arg Leu Ser Cys Ala Ala Ser
            20   25

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<400> 517
Gly Phe Thr Phe Ser Ser Tyr Gly Met His
 1   5   10

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Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
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His Ile Phe Ser Asn Asp Glu Lys Ser Tyr Ser Thr Ser Leu Lys Ser
 1   5   10   15

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<400> 520
His Ile Phe Ser Asn Asp Glu Asn Ser Tyr Arg Thr Ser Leu Lys Ser
 1   5   10   15

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<400> 521
Arg Leu Thr Ile Ser Lys Asp Thr Ser Lys Ser Gln Val Val Leu Thr
 1   5   10   15
Met Thr Asn Met Asp Pro Val Asp Thr Ala Thr Tyr Tyr Cys Ala Arg
            20   25   30
Ile

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<400> 522
Val Gly Ala Thr Thr Asp Asp Ala Phe Asp Ile
 1   5   10

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<400> 523
Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser
 1   5   10

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<400> 524
Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 1   5   10

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<400> 525
Trp Gly His Gly Thr Thr Val Thr Val Ser Ser
 1   5   10

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<400> 526
Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val Lys
 1   5   10   15
Gly

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Asn Ile Lys Gln Asp Gly Asn Asp Lys Tyr Tyr Val Asp Ser Val Lys
 1   5   10   15
Gly

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Ser Ile Lys Gln Asp Gly Ser Glu Arg Tyr Tyr Val Asp Ser Val Lys
 1   5   10   15
Gly

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<400> 529
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
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Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

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<400> 530
Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ser Leu Tyr Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

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<400> 531
Arg Phe Ala Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Phe Leu Gln
 1   5   10   15
Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

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Arg Phe Thr Ile Ser Arg Asp Thr Ala Lys Asn Ser Leu Tyr Leu Gln
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Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

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Glu Ser Asn Trp Gly Phe Ala Phe Asp Ile
 1   5   10

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<400> 534
Pro Leu Val Leu Met Val Tyr Ala Leu His Tyr Tyr Tyr Tyr Gly Met
 1   5   10   15
Asp Val

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<211> 17
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<400> 535
Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val Lys
 1   5   10   15
Gly

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<400> 536
Val Ile Tyr Tyr Asp Gly Ile Asn Lys His Tyr Ala Asp Ser Val Lys
 1   5   10   15
Gly

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Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
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Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
            20   25   30

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<400> 538
Asp Arg Gly Leu Asp
 1   5

<210> 539
<211> 11
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<400> 539
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
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Asp Ile Val Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro Gly
 1   5   10   15
Glu Pro Ala Ser Ile Ser Cys
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<400> 541
Trp Tyr Leu Gln Lys Pro Gly Gln Ser Pro Gln Leu Leu Ile Tyr
 1   5   10   15

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Asp Ile Val Met Thr Gln Ser Pro Asp Ser Leu Ala Val Ser Leu Gly
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Glu Arg Ala Thr Ile Asn Cys
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Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Asn Lys Asn Tyr Leu
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Ala

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Lys Ser Ser Gln Ser Val Leu Tyr Ser Ser Asn Ser Lys Asn Tyr Leu
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Val

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Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr
 1   5   10   15

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Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
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Arg Val Thr Ile Ser Cys

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<400> 547
Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn
1 5 10

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Ser Gly Ser Ser Ser Asn Ile Gly Ser Lys Thr Val Asn
1 5 10

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Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr
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Thr Ala Arg Ile Thr Cys
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Thr Ala Arg Ile Thr Cys
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Gly Gly Asn Asn Ile Gly Ser Lys Ser Val His
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Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr
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Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
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Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
            20   25   30

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Gly Val Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr His Leu Thr
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Leu Lys Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys
            20   25   30

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<400> 558
Met Gln Ala Leu Gln Thr Pro Leu Thr
 1   5

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Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
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Trp Ala Ser Thr Arg Glu Ser
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Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Val Tyr Tyr Cys
            20   25   30

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Gln Gln Tyr Tyr Ser Thr Pro Trp Thr
 1   5

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<400> 563
Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 1   5   10

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<400> 564
Ser Asn Asn Gln Arg Pro Ser
 1   5

<210> 565
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<400> 565
Ser Asn Asn Arg Arg Pro Ser
 1   5

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<400> 566
Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser
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Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys
            20   25   30

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Ala Ala Trp Asp Asp Ser Leu Asn Trp Val
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<400> 568
Ala Thr Trp Asp Asp Arg Leu Asn Trp Val
 1   5   10

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<400> 569
Phe Gly Ala Gly Thr Lys Leu Thr Val Leu
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Tyr Asp Ser Asp Arg Pro Ser
 1   5

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<400> 571
Asp Asp Ser Asp Arg Pro Ser
 1   5

<210> 572
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Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Tyr Cys
            20   25   30

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<400> 573
Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr
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Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala Asp Tyr Phe Cys
            20   25   30

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Gln Val Trp Asp Ser Ser Ser Asp Pro Val Val
 1   5   10

<210> 575
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<212> PRT
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<400> 575
Phe Gly Gly Gly Thr Lys Leu Thr Val Leu
 1   5   10