SEQUENCE LISTING

<110> Therapeutic Human Polyclonals, Inc.
Buelow, Roland

<120> Enhanced Expression of Human or
Humanized Immunoglobulin in Non-Human Transgenic Animals

<130> 39691-0016.PCT

<140> Not yet Assigned
<141> Herewith

<150> 60/841,890
<151> 2006-09-01

<160> 12

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 226
<212> PRT
<213> Homo sapien

<400> 1

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Leu Leu Phe Leu Leu Ser Ala Val Tyr Leu Gly Pro Gly Cys Gln Ala
            20                  25                  30
Leu Trp Met His Lys Val Pro Ala Ser Leu Met Val Ser Leu Gly Glu
        35                  40                  45
Asp Ala His Phe Gln Cys Pro His Asn Ser Ser Asn Asn Ala Asn Val
    50                  55                  60
Thr Trp Trp Arg Ile Leu His Gly Asn Tyr Thr Trp Pro Pro Glu Phe
65                  70                  75                  80
Leu Gly Pro Gly Glu Asp Pro Asn Gly Thr Leu Ile Ile Gln Asn Val
                85                  90                  95
Asn Lys Ser His Gly Gly Ile Tyr Val Cys Arg Val Gln Glu Gly Asn
            100                 105                 110
Glu Ser Tyr Gln Gln Ser Cys Gly Thr Tyr Leu Arg Val Arg Gln Pro
        115                 120                 125
Pro Pro Arg Pro Phe Leu Asp Met Gly Glu Gly Thr Lys Asn Arg Ile
    130                 135                 140
Ile Thr Ala Glu Gly Ile Ile Leu Leu Phe Cys Ala Val Val Pro Gly
145                 150                 155                 160
Thr Leu Leu Leu Phe Arg Lys Arg Trp Gln Asn Glu Lys Leu Gly Leu
                165                 170                 175
Asp Ala Gly Asp Glu Tyr Glu Asp Glu Asn Leu Tyr Glu Gly Leu Asn
            180                 185                 190
Leu Asp Asp Cys Ser Met Tyr Glu Asp Ile Ser Arg Gly Leu Gln Gly
        195                 200                 205
Thr Tyr Gln Asp Val Gly Ser Leu Asn Ile Gly Asp Val Gln Leu Glu
    210                 215                 220
Lys Pro
225
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<210> 2
<211> 65
<212> PRT
<213> Bos taurus

<400> 2

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Glu Gln Ala Ser Pro Ile Ala Gly Val Glu Trp Gly Pro Val Thr Val
 1               5                  10                  15
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Glu Val Arg Leu Thr Gly Thr His Val Gln Ser Ser Ser Val Met Tyr
20 25 30
Arg Gly Asp Val Gly Ala Gly Glu Lys Pro Thr Arg Met Arg Gln Ser
35 40 45
Asp Lys Lys Ile Arg Asp Leu Asn Ile Met Phe Ala Ile Gln Asp His
50 55 60
Ala
65

<210> 3
<211> 66
<212> PRT
<213> Mus musculus

<400> 3
Leu Glu Ala Arg Leu Leu Leu Tyr Ala Cys Arg Val Glu Gly Gly Pro
1 5 10 15
Thr Asn Glu Arg Leu Thr Glu Asn Gly Arg Pro Ile Phe Ser Gln Ser
20 25 30
Ile Val Pro Gln Gly Thr Thr Gln Phe Phe Pro Glu Asn Arg Leu Trp
35 40 45
Gln Ile Asn Asn Ile Leu Lys Arg Asn Val Phe Val Met Pro Asp Asn
50 55 60
His Ala
65

<210> 4
<211> 66
<212> PRT
<213> Canis

<400> 4
Leu Cys Thr Ile Gly Gly Ser Val Asp Gly Gly Pro Met Thr Thr Arg
1 5 10 15
Leu Leu Arg Arg Leu Ser Ser Lys Leu Ile Val Gln Ala Asp Ile Ser
20 25 30
Tyr Lys Gly Glu Thr Asp Thr Met Met Arg Gln Glu Lys Asp Leu Asn
35 40 45
Gln Lys Ile Leu Ser Ser Glu Arg Leu Asn Met Phe Val Gln Asp His
50 55 60
Gly Asp
65

<210> 5
<211> 73
<212> PRT
<213> Pan

<400> 5
Ser Ala Val Arg Glu Trp Pro Ser Pro Gly Pro Tyr Ser His Cys Pro
1 5 10 15
Ala Gly Asp Thr Arg Phe Ile Phe Glu Val Gly Ile Glu Pro Ile Pro
20 25 30
Ser Met Trp Val Ser Asn Arg Leu Gly Gln Arg Asp Gly His Ser Pro
35 40 45
Leu Gln Lys Val Ser Pro Leu Gly Pro Leu Ser Gln Pro Gly Glu Gly
50 55 60
Leu Gly Arg Gly Thr Pro Asn Ala Gln
65 70

<210> 6
<211> 2
<212> PRT
<213> Oryctolagus cuniculus

<400> 6
Asp His
 1

<210> 7
<211> 229
<212> PRT
<213> Homo sapien

<400> 7
Met Ala Arg Leu Ala Leu Ser Pro Val Pro Ser His Trp Met Val Ala
 1   5   10   15
Leu Leu Leu Leu Leu Ser Ala Glu Pro Val Pro Ala Ala Arg Ser Glu
            20   25   30
Asp Arg Tyr Arg Asn Pro Lys Gly Ser Ala Cys Ser Arg Ile Trp Gln
        35   40   45
Ser Pro Arg Phe Ile Ala Arg Lys Arg Arg Phe Thr Val Lys Met His
    50   55   60
Cys Tyr Met Asn Ser Ala Ser Gly Asn Val Ser Trp Leu Trp Lys Gln
65   70   75   80
Glu Met Asp Glu Asn Pro Gln Gln Leu Lys Leu Glu Lys Gly Arg Met
                85   90   95
Glu Glu Ser Gln Asn Glu Ser Leu Ala Thr Leu Thr Ile Gln Gly Ile
            100   105   110
Arg Phe Glu Asp Asn Gly Ile Tyr Phe Cys Gln Gln Lys Cys Asn Asn
        115   120   125
Thr Ser Glu Val Tyr Gln Gly Cys Gly Thr Glu Leu Arg Val Met Gly
    130   135   140
Phe Ser Thr Leu Ala Gln Leu Lys Gln Arg Asn Thr Leu Lys Asp Gly
145   150   155   160
Ile Ile Met Ile Gln Thr Leu Leu Ile Ile Leu Phe Ile Ile Val Pro
                165   170   175
Ile Phe Leu Leu Leu Asp Lys Asp Asp Ser Lys Ala Gly Met Glu Glu
            180   185   190
Asp His Thr Tyr Glu Gly Leu Asp Ile Asp Gln Thr Ala Thr Tyr Glu
        195   200   205
Asp Ile Val Thr Leu Arg Thr Gly Glu Val Lys Trp Ser Val Gly Glu
    210   215   220
His Pro Gly Gln Glu
225

<210> 8
<211> 51
<212> PRT
<213> Canis

<400> 8
Gly Val His Asn Leu Val Gly Lys Thr His Gln Asp Thr Gly Gly Ala
 1   5   10   15
Val Glu Ile Arg His Thr Lys Asp Val Ala Arg Leu Glu Lys Pro Pro
            20   25   30
Arg Asp Leu Leu Gln Asp Val Gln Ser Ser Lys Gly Ser Phe Ser Lys
        35   40   45
Arg Asp Asn
    50

<210> 9
<211> 70
<212> PRT
<213> Rattus

<400> 9
Thr Val Cys Leu Met Phe Gly Met Thr Lys Ser Gln Pro Pro Ile Phe
 1   5   10   15
Gln Pro Lys His Ala Lys Ser Ser Met Phe His Thr Asp Tyr Val Met
            20   25   30

```
Thr Phe Arg Gln Lys Gly Asn Gln Arg Glu Phe Pro Asp His Ile Ser
        35                  40                  45
Gln Thr Arg Gly Val Tyr Leu Asn Gln Tyr Ser Thr Glu Pro Asp Thr
    50                  55                  60
Asp Leu Leu Asp Arg Asn
65                  70


<210> 10
<211> 71
<212> PRT
<213> Bos taurus

<400> 10
Gly Ser Ile Gly Leu Asn Asn Leu Leu Gly Gly Lys Leu Asp Lys Thr
 1               5                  10                  15
Asp Leu Leu Asp Asn Thr His Val Lys Gly Ser Glu Ile Arg His Val
            20                  25                  30
Glu Asp Asp Leu Phe Arg Pro Lys Pro Ser Glu Lys Thr His Ala Gln
        35                  40                  45
Ile Leu Gln His Lys Glu Val Leu Ser Val Gln Gln Lys Glu Ala Lys
    50                  55                  60
Gly Gln Arg Thr Glu His Arg
65                  70


<210> 11
<211> 70
<212> PRT
<213> Mus musculus

<400> 11
Thr Val Ser Met Cys Leu Leu Phe Phe Gly Met Thr Ser Leu Pro Leu
 1               5                  10                  15
Phe Gln Pro Gln His Ala Lys Ser Ser Met Phe Thr His Ala Leu Thr
            20                  25                  30
Phe Arg Arg Gly Ser Gln Gln Glu Val Ser Glu Ile Val Gln Thr Gly
        35                  40                  45
Val Tyr Asn Gln Tyr Lys Asp Ser Ala Asn His Asn Thr Asp Ser Leu
    50                  55                  60
Leu Asp Arg Leu Gly Asn
65                  70


<210> 12
<211> 139
<212> PRT
<213> Gallus

<400> 12
Met Gly Asp Phe Cys Arg Arg Leu Trp Val Leu Gln Val Asn Trp Met
 1               5                  10                  15
Ala Ala Ala Gly Gly Ile Pro Thr Asp Gly Asn Ser Thr Ser Arg Thr
            20                  25                  30
Glu Val Gly Met His Tyr Ala Lys Asn Thr Ser His Phe Ile Thr Ser
        35                  40                  45
Gln Pro His Ala Met Gln Tyr Lys Ala Leu Gly Asn Gly Lys Glu Phe
    50                  55                  60
His Val Asp Gln Ser Ser Asp Phe Ser Ile Asn Asn Thr Asn Asp Arg
65                  70                  75                  80
Ile Ser Phe Ser Arg Ser Tyr Val Asp Ser Asn Leu Thr Glu Glu Lys
                85                  90                  95
Arg Gln Pro Asn Ser Ile Ser Arg Asn Ile Gln Ile Gln Asn Thr Ile
            100                 105                 110
Ile Leu Val Ile Ser Met Leu Phe Glu Gly Arg Glu Arg Pro Glu Val
        115                 120                 125
Glu Ile Thr Pro Phe Asp Met Lys Ala Thr Glu
    130                 135
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