SEQUENCE LISTING

<110> Bayer HealthCare LLC
Ma, Xinghang
Xiang, Jun
Niu, Jianjie

<120> ANTI-PROLACTIN RECEPTOR ANTIBODY FORMULATIONS

<130> 17207.0001WOU1

<140> To Be Assigned
<141> 2013-08-28

<150> US 13/842,906
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<150> 61/695,949
<151> 2012-08-31

<160> 60

<170> PatentIn version 3.5

<210> 1
<211> 217
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)..(217)
<223> Anti-Prolactin MAb -- Light Chain, Full-length

<400> 1

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly
20 25 30

Tyr Val Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
35 40 45

Leu Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe
50 55 60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu
65 70 75 80

Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser
85 90 95

Leu Asn Gly Trp Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

```
Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu
        115                 120                 125

Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe
    130                 135                 140

Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val
145                 150                 155                 160

Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys
                165                 170                 175

Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser
            180                 185                 190

His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu
        195                 200                 205

Lys Thr Val Ala Pro Thr Glu Cys Ser
    210                 215
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<210> 2
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(113)
<223> Anti-Prolactin MAb -- Light Chain, Variable Domain

<400> 2

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Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1               5                   10                  15

Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly
            20                  25                  30

Tyr Val Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
        35                  40                  45

Leu Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe
    50                  55                  60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu
65                  70                  75                  80
```

Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser
85 90 95

Leu Asn Gly Trp Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

Gln

<210> 3
<211> 16
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(16)
<223> Anti-Prolactin MAb -- Light Chain, Variable Domain, CDR1

<400> 3

Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Val Val His
1 5 10 15

<210> 4
<211> 7
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)..(7)
<223> Anti-Prolactin MAb -- Light Chain, Variable Domain, CDR2

<400> 4

Arg Asn Asn Gln Arg Pro Ser
1 5

<210> 5
<211> 12
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)..(12)
<223> Anti-Prolactin MAb -- Light Chain, Variable Domain, CDR3

<400> 5

Cys Ala Ala Trp Asp Asp Ser Leu Asn Gly Trp Leu
1 5 10

<210> 6
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(84)
<223> Anti-Prolactin MAb -- Light Chain, Constant Domain

<400> 6

```
Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu
1               5                  10                  15

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

Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val Lys
        35                  40                  45

Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys Tyr
    50                  55                  60

Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser His
65                  70                  75                  80

Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu Lys
                85                  90                  95

Thr Val Ala Pro Thr Glu Cys Ser
            100
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<210> 7
<211> 443
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(443)
<223> Anti-Prolactin MAb -- Heavy Chain, Full-length

<400> 7

```
Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                  10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
            20                  25                  30

Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
```

```
        35                  40                  45

Ser Asp Ile Ala Arg Leu Ser Ser Tyr Thr Asn Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Arg Gly Leu Asp Ala Arg Arg Met Asp Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro
        115                 120                 125

Leu Ala Pro Cys Ser Arg Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly
    130                 135                 140

Cys Leu Val Lys Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn
145                 150                 155                 160

Ser Gly Ala Leu Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln
                165                 170                 175

Ser Ser Gly Leu Tyr Ser Leu Ser Ser Val Val Thr Val Pro Ser Ser
            180                 185                 190

Asn Phe Gly Thr Gln Thr Tyr Thr Cys Asn Val Asp His Lys Pro Ser
        195                 200                 205

Asn Thr Lys Val Asp Lys Thr Val Glu Arg Lys Cys Cys Val Glu Cys
    210                 215                 220

Pro Pro Cys Pro Ala Pro Pro Val Ala Gly Pro Ser Val Phe Leu Phe
225                 230                 235                 240

Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val
                245                 250                 255

Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Gln Phe
            260                 265                 270

Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro
        275                 280                 285
```

```
Arg Glu Glu Gln Phe Asn Ser Thr Phe Arg Val Val Ser Val Leu Thr
    290                 295                 300

Val Val His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val
305                 310                 315                 320

Ser Asn Lys Gly Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr
                325                 330                 335

Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg
            340                 345                 350

Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly
        355                 360                 365

Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro
    370                 375                 380

Glu Asn Asn Tyr Lys Thr Thr Pro Pro Met Leu Asp Ser Asp Gly Ser
385                 390                 395                 400

Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln
                405                 410                 415

Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His
            420                 425                 430

Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly
        435                 440


<210>  8
<211>  118
<212>  PRT
<213>  Homo sapiens


<220>
<221>  MISC_FEATURE
<222>  (1)..(118)
<223>  Anti-Prolactin MAb -- Heavy Chain, Variable Domain

<400>  8

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
            20                  25                  30

Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35                  40                  45
```

Ser Asp Ile Ala Arg Leu Ser Ser Tyr Thr Asn Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Leu Asp Ala Arg Arg Met Asp Tyr Trp Gly Gln Gly Thr
100 105 110

Leu Val Thr Val Ser Ser
115

<210> 9
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(8)
<223> Anti-Prolactin MAb -- Heavy Chain, Variable Domain, CDR1

<400> 9

Phe Ser Ser Tyr Trp Met His Trp
1 5

<210> 10
<211> 19
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(19)
<223> Anti-Prolactin MAb -- Heavy Chain, Variable Domain, CDR2

<400> 10

Ser Asp Ile Ala Arg Leu Ser Ser Tyr Thr Asn Tyr Ala Asp Ser Val
1 5 10 15

Lys Gly Arg

<210> 11
<211> 11
<212> PRT

<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(11)
<223> Anti-Prolactin MAb -- Heavy Chain, Variable Domain, CDR3

<400> 11

Ala Arg Gly Leu Asp Ala Arg Arg Met Asp Tyr
1 5 10

<210> 12
<211> 325
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(325)
<223> Anti-Prolactin MAb -- Heavy Chain, Constant Domain

<400> 12

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
1 5 10 15

Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
85 90 95

Thr Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro
100 105 110

Pro Val Ala Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
115 120 125

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
130 135 140

```
Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly
145                 150                 155                 160

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn
                165                 170                 175

Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp
            180                 185                 190

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro
        195                 200                 205

Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu
    210                 215                 220

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
225                 230                 235                 240

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
                245                 250                 255

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
            260                 265                 270

Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
        275                 280                 285

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
    290                 295                 300

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
305                 310                 315                 320

Ser Leu Ser Pro Gly
                325


<210>  13
<211>  118
<212>  PRT
<213>  Homo sapiens


<220>
<221>  MISC_FEATURE
<222>  (1)..(118)
<223>  Anti-Prolactin (aPRLR) Ab 005-C04 -- Variable Heavy Chain

<400>  13

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1                 5                  10                  15
```

```
Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
            20                  25                  30

Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35                  40                  45

Ser Asp Ile Ser Ser Ala Ser Ser Tyr Thr Asn Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Arg Gly Leu Asp Ala Arg Arg Met Asp Tyr Trp Gly Gln Gly Thr
            100                 105                 110

Leu Val Thr Val Ser Ser
        115
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<210> 14
<211> 113
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)..(113)
<223> Anti-Prolactin (aPRLR) Ab 005-C04 -- Variable Light Chain

<400> 14

```
Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1               5                   10                  15

Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly
            20                  25                  30

Tyr Val Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu
        35                  40                  45

Leu Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe
    50                  55                  60

Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu
65                  70                  75                  80
```

Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser
85 90 95

Leu Asn Gly Trp Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

Gln

<210> 15
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(8)
<223> Anti-Prolactin (aPRLR) Ab 005-C04 -- Variable heavy chain CDR1

<400> 15

Phe Ser Ser Tyr Trp Met His Trp
1 5

<210> 16
<211> 19
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(19)
<223> Anti-Prolactin (aPRLR) Ab 005-C04 -- Variable heavy chain CDR2

<400> 16

Ser Asp Ile Ser Ser Ala Ser Ser Tyr Thr Asn Tyr Ala Asp Ser Val
1 5 10 15

Lys Gly Arg

<210> 17
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(11)
<223> Anti-Prolactin (aPRLR) Ab 005-C04 -- Variable heavy chain CDR3

<400> 17

Ala Arg Gly Leu Asp Ala Arg Arg Met Asp Tyr
1 5 10

<210> 18
<211> 14
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(14)
<223> Anti-Prolactin (aPRLR) Ab 005-C04 -- Variable light chain CDR1

<400> 18

Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Val Val His
1 5 10

<210> 19
<211> 7
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(7)
<223> Anti-Prolactin (aPRLR) Ab 005-C04 -- Variable light chain CDR2

<400> 19

Arg Asn Asn Gln Arg Pro Ser
1 5

<210> 20
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(11)
<223> Anti-Prolactin (aPRLR) Ab 005-C04 -- Variable light chain CDR3

<400> 20

Cys Ala Ala Trp Asp Asp Ser Leu Asn Gly Trp
1 5 10

<210> 21
<211> 119
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE

<222> (1)..(119)
<223> Anti-Prolactin (aPRLR) Ab 002-H06 -- Variable Heavy Chain

<400> 21

```
Gln Val Glu Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                  10                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ala Asn Tyr
            20                  25                  30

Gly Leu Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35                  40                  45

Ala Val Ile Ser Phe Asn Gly Asp Lys Lys Tyr Tyr Ala Asp Ser Val
    50                  55                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65                  70                  75                  80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95

Ala Ser Pro Leu Glu Ser Pro Val Ala Phe Asp Ile Trp Gly Gln Gly
            100                 105                 110

Thr Leu Val Thr Val Ser Ser
        115
```

<210> 22
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(112)
<223> Anti-Prolactin (aPRLR) Ab 002-H06 -- Variable Light Chain

<400> 22

```
Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1               5                  10                  15

Arg Val Thr Ile Ser Cys Ser Gly Ser Tyr Ser Asn Ile Gly Gly Asn
            20                  25                  30

Pro Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
        35                  40                  45

Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
```

50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu
85 90 95

Ser Gly Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105 110

<210> 23
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(8)
<223> Anti-Prolactin (aPRLR) Ab 002-H06 -- Variable heavy chain CDR1

<400> 23

Phe Ala Asn Tyr Gly Leu Thr Trp
1 5

<210> 24
<211> 19
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(19)
<223> Anti-Prolactin (aPRLR) Ab 002-H06 -- Variable heavy chain CDR2

<400> 24

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

Lys Gly Arg

<210> 25
<211> 12
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(12)
<223> Anti-Prolactin (aPRLR) Ab 002-H06 -- Variable heavy chain CDR3

<400> 25

Ala Ser Pro Leu Glu Ser Pro Val Ala Phe Asp Ile
1 5 10

<210> 26
<211> 13
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(13)
<223> Anti-Prolactin (aPRLR) Ab 002-H06 -- Variable light chain CDR1

<400> 26

Ser Gly Ser Tyr Ser Asn Ile Gly Gly Asn Pro Val Asn
1 5 10

<210> 27
<211> 7
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(7)
<223> Anti-Prolactin (aPRLR) Ab 002-H06 -- Variable light chain CDR2

<400> 27

Gly Asn Ser Asn Arg Pro Ser
1 5

<210> 28
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(11)
<223> Anti-Prolactin (aPRLR) Ab 002-H06 -- Variable light chain CDR3

<400> 28

Cys Gln Ser Tyr Asp Ser Ser Leu Ser Gly Ser
1 5 10

<210> 29
<211> 115
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(115)
<223> Anti-Prolactin (aPRLR) Ab 002-H08 -- Variable Heavy Chain

<400> 29

Gln Val Glu Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Gly Val Ser Trp Asn Gly Ser Arg Thr His Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Leu Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Gly Gly Asp Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
100 105 110

Val Ser Ser
115

<210> 30
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(113)
<223> Anti-Prolactin (aPRLR) Ab 002-H08 -- Variable Light Chain

<400> 30

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
20 25 30

Asp Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Asp Asn Asn Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu
85 90 95

Ser Gly Ser Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
100 105 110

Gln

<210> 31
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(8)
<223> Anti-Prolactin (aPRLR) Ab 002-H08 -- Variable heavy chain CDR1

<400> 31

Phe Ser Ser Tyr Gly Met His Trp
1 5

<210> 32
<211> 19
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(19)
<223> Variable heavy chain CDR2

<400> 32

Ser Gly Val Ser Trp Asn Gly Ser Arg Thr His Tyr Ala Asp Ser Val
1 5 10 15

Lys Gly Arg

<210> 33
<211> 9
<212> PRT

<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(9)
<223> Anti-Prolactin (aPRLR) Ab 002-H08 -- Variable heavy chain CDR3

<400> 33

Cys Ala Arg Gly Gly Asp Phe Asp Tyr
1 5

<210> 34
<211> 13
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(13)
<223> Anti-Prolactin (aPRLR) Ab 002-H08 -- Variable light chain CDR1

<400> 34

Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Asp Val Tyr
1 5 10

<210> 35
<211> 7
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(7)
<223> Anti-Prolactin (aPRLR) Ab 002-H08 -- Variable light chain CDR2

<400> 35

Asp Asn Asn Lys Arg Pro Ser
1 5

<210> 36
<211> 12
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(12)
<223> Anti-Prolactin (aPRLR) Ab 002-H08 -- Variable light chain CDR3

<400> 36

Cys Gln Ser Tyr Asp Ser Ser Leu Ser Gly Ser Trp
1 5 10

<210> 37
<211> 119
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(119)
<223> Anti-Prolactin (aPRLR) Ab 006-H07 -- Variable Heavy Chain

<400> 37

Gln Val Glu Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Glu Asp His
20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ser Leu Ile Ser Trp Asp Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser
50 55 60

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu
65 70 75 80

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr
85 90 95

Cys Ala Thr Ser Leu Arg Ala Thr Ala Phe Asp Thr Trp Gly Gln Gly
100 105 110

Thr Leu Val Thr Val Ser Ser
115

<210> 38
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(112)
<223> Anti-Prolactin (aPRLR) Ab 006-H07 -- Variable Light Chain

<400> 38

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

```
Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn
            20                  25                  30

Ala Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
        35                  40                  45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
    50                  55                  60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg
65                  70                  75                  80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu
                85                  90                  95

Ser Gly Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
            100                 105                 110
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<210> 39
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(8)
<223> Anti-Prolactin (aPRLR) Ab 006-H07 -- Variable heavy chain CDR1

<400> 39

```
Phe Glu Asp His Gly Met Ser Trp
1               5
```

<210> 40
<211> 20
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(20)
<223> Anti-Prolactin (aPRLR) Ab 006-H07 -- Variable heavy chain CDR2

<400> 40

```
Ser Leu Ile Ser Trp Asp Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser
1               5                   10                  15

Val Lys Gly Arg
            20
```

<210> 41
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(11)
<223> Anti-Prolactin (aPRLR) Ab 006-H07 -- Variable heavy chain CDR3

<400> 41

Ala Thr Ser Leu Arg Ala Thr Ala Phe Asp Thr
1 5 10

<210> 42
<211> 13
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(13)
<223> Anti-Prolactin (aPRLR) Ab 006-H07 -- Variable light chain CDR1

<400> 42

Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Ala Val Asn
1 5 10

<210> 43
<211> 7
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(7)
<223> Anti-Prolactin (aPRLR) Ab 006-H07 -- Variable light chain CDR2

<400> 43

Ser Asn Asn Gln Arg Pro Ser
1 5

<210> 44
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(11)
<223> Anti-Prolactin (aPRLR) Ab 006-H07 -- Variable light chain CDR3

<400> 44

```
Cys Ala Ala Trp Asp Asp Ser Leu Ser Gly Trp
1               5                   10


<210>  45
<211>  123
<212>  PRT
<213>  Homo sapiens


<220>
<221>  MISC_FEATURE
<222>  (1)..(123)
<223>  Anti-Prolactin (aPRLR) Ab 001-E06 -- Variable Heavy Chain

<400>  45

Gln Val Glu Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1               5                   10                  15


Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
            20                  25                  30


Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
        35                  40                  45


Ser Ser Val Ser Asp Thr Gly Thr Asp Thr His Tyr Ala Asp Ser Val
    50                  55                  60


Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
65                  70                  75                  80


Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
                85                  90                  95


Ala Lys Thr Pro Leu Ala Tyr Ser Ser Gly Trp Tyr Tyr Phe Asp Tyr
            100                 105                 110


Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
        115                 120


<210>  46
<211>  112
<212>  PRT
<213>  Homo sapiens


<220>
<221>  MISC_FEATURE
<222>  (1)..(112)
<223>  Anti-Prolactin (aPRLR) Ab 001-E06 -- Variable Light Chain

<400>  46
```

```
Asp Ile Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1               5                  10                  15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn
            20                  25                  30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
        35                  40                  45

Ile Tyr Arg Asn Tyr Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
    50                  55                  60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg
65                  70                  75                  80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu
                85                  90                  95

Ser Gly Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
            100                 105                 110
```

<210> 47
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(8)
<223> Anti-Prolactin (aPRLR) Ab 001-E06 -- Variable heavy chain CDR1

<400> 47

```
Phe Ser Ser Tyr Trp Met Ser Trp
1               5
```

<210> 48
<211> 19
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(19)
<223> Anti-Prolactin (aPRLR) Ab 001-E06 -- Variable heavy chain CDR2

<400> 48

```
Ser Ser Val Ser Asp Thr Gly Thr Asp Thr His Tyr Ala Asp Ser Val
1               5                  10                  15

Lys Gly Arg
```

<210> 49
<211> 15
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(15)
<223> Anti-Prolactin (aPRLR) Ab 001-E06 -- Variable heavy chain CDR3

<400> 49

Ala Lys Thr Pro Leu Ala Tyr Ser Ser Gly Trp Tyr Tyr Phe Asp
1 5 10 15

<210> 50
<211> 13
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(13)
<223> Anti-Prolactin (aPRLR) Ab 001-E06 -- Variable light chain CDR1

<400> 50

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

<210> 51
<211> 7
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(7)
<223> Anti-Prolactin (aPRLR) Ab 001-E06 -- Variable light chain CDR2

<400> 51

Arg Asn Tyr Gln Arg Pro Ser
1 5

<210> 52
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(11)

<223> Anti-Prolactin (aPRLR) Ab 001-E06 -- Variable light chain CDR3

<400> 52

Cys Gln Ser Tyr Asp Ser Ser Leu Ser Gly Ser
1 5 10

<210> 53
<211> 119
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(119)
<223> Anti-Prolactin (aPRLR) Ab 006-H08 -- Variable Heavy Chain

<400> 53

Gln Val Glu Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Gln Asn Thr Leu Tyr
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Ser Pro Leu Glu Ser Pro Val Ala Phe Asp Ile Trp Gly Gln Gly
100 105 110

Thr Met Val Ile Val Ser Ser
115

<210> 54
<211> 112
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(112)
<223> Anti-Prolactin (aPRLR) Ab 006-H08 -- Variable Light Chain

<400> 54

Asp Ile Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Asn Ser Asn Ile Gly Ser Asn
20 25 30

Pro Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu
35 40 45

Ile Tyr Asp Asn Asn Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Gly Leu
85 90 95

Ser Gly Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln
100 105 110

<210> 55
<211> 8
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(8)
<223> Anti-Prolactin (aPRLR) Ab 006-H08 -- Variable heavy chain CDR1

<400> 55

Phe Asp Asp Tyr Gly Met Ser Trp
1 5

<210> 56
<211> 19
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(19)
<223> Anti-Prolactin (aPRLR) Ab 006-H08 -- Variable heavy chain CDR2

<400> 56

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

Lys Gly Arg

<210> 57
<211> 12
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(12)
<223> Anti-Prolactin (aPRLR) Ab 006-H08 -- Variable heavy chain CDR3

<400> 57

Ala Ser Pro Leu Glu Ser Pro Val Ala Phe Asp Ile
1 5 10

<210> 58
<211> 13
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(13)
<223> Anti-Prolactin (aPRLR) Ab 006-H08 -- Variable light chain CDR1

<400> 58

Ser Gly Ser Asn Ser Asn Ile Gly Ser Asn Pro Val Asn
1 5 10

<210> 59
<211> 7
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(7)
<223> Anti-Prolactin (aPRLR) Ab 006-H08 -- Variable light chain CDR2

<400> 59

Asp Asn Asn Lys Arg Pro Ser
1 5

<210> 60
<211> 11
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)..(11)
<223> Anti-Prolactin (aPRLR) Ab 006-H08 -- Variable light chain CDR3

<400> 60

Cys Gln Ser Tyr Asp Thr Gly Leu Ser Gly Trp
1 5 10