FIG. 1A

Ggatcccacaatgaagctttccaccatcctttcacagcctgcgctaccctggctgccg
ccctcccttccccccatcactccttctgaggccgcagttctccagaagcgaggcggcggc
gacattcagatgactcagtctccctcttctctgtctgcttctgtgggtgaccgagtgac
cattacctgtcgagcttctcaggacgtgaacactgctgttgcttggtatcagcagaagc
ctggaaaggctcctaagctgctgatctactctgcctctttcctgtactctggcgtgcct
tctcgattttctggctctcgatctggaaccgacttcaccctgaccatttcttctctgca
gcctgaggactttgctacctactactgtcagcagcattacaccacccctcctacttttg
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cttttacccccgagaggctaaggttcagtggaaggtggacaacgctctgcagtctggaa
actctcaggagtctgttactgagcaggactctaaggactcgacctactctctcttct
accctgaccctgtctaaggctgactacgagaagcataaggtgtacgcttgtgaggttac
ccatcagggactgtcctctcccgtgaccaagtcttttaaccgaggcgagtgctaaccta
gg (SEQ ID NO:1)

gcaacggatcccacaatgaagctttccaccatcctttcacagcctgcgctaccctggc
tgccgccctcccttcccccatcactccttctgaggccgcagttctccagaagcgaggcg
gcggcgaggttcagctggttgagtctggtggaggactggttcagcctggtggatctctg
cgactgtcttgtgctgcttctggcttcaacatcaaggacacctacattcattgggtccg
acaggctcccggaaagggactggagtgggttgcccgaatctaccctaccaacggctaca
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actgcctacctgcagatgaactctctgcgagctgaggacactgctgtgtactactgttc
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ccgtttcttctgcttctaccaagggaccttctgtgtttcctctggcccctcttctaag
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catgaggctctgcacaaccactacacccagaagtctctgtctctgtctcccggcaagta
acctagg (SEQ ID NO:2)

FIG. 1B

1 mhfsnfllga laataaaknt yqinkygspl tnqkrslsen svvqldtvgv rsirdepapr
61 daalmkrqta tlplknlvty yeaevkigtp aqtvkllidt gssdiwvigs gnpdcgsaqd
121 aqrdpniidc sisgtfdtsk ssswsqnqtd ffiqygdqta aeggwgtdtf afgntnvsgl
181 siavasktns sngvmgigla glestityrg ndqisgnpye nlpmkmkaeg likanayslw
241 lnnlssdsgn vlfggvdyak idgdlfftvk l vnpqrsvssk piafyvglds vsitdvkgvs
301 gfitkqpvpa lldsgttlty lpqdafnyvv ramgatydpq ngyvcpckng ysghldynfs
361 ganisvplyq ltypiqlqsq sgrvvnaqfr ngddacllm qasqdhvilg dsflraayvv
421 ynldsyevsm gqtkygvtdt niveidsngv knanpapeys ssftnvnset tilrgapgsa
481 dsnpsttlsg glvagssass gssgdgkgkn naaglelsiv glavavvmas fglm (SEQ ID
NO: 3)

1 mksllllslla vpataqllld lqghdttdpr hqsqnhltkr ktveqdlvqk fayyeatvsv
61 gtpgqqiklt ldtgssdmwv lgqnvncggg gifsqgidct qsgvfdtsks styhknesip
121 fdikysdgse skgfygtdnl glggttlndf tfavadsasd gqavlgigpi eneqslytdn
181 pvayanlpla lmmdgvtkss afslwlndkd alkgsilfgg ydrakvdgdl ftvpivnlnp
241 ggqgrsreyn vgldsitvgg ksvgsstpal ldsgttlcnl pqemvdalla qfsgvsnslr
301 agyytkcsnv pqgsidfvfs gnkltvelad lmkplenpdg skittdgeqa cgilvtsntd
361 shsisdsvvl gasflrsayv vydrdaqkim mgkakygvss sdivelkdgs segvasaess
421 aesaaatass sagassgass sgassagass dssasasasa sasasasasa tatsegdsgq
481 gvstmavvvr psdtrlsayi tnivvtpsat palstvsvvv rpsdtrlsay iteivvtpta
541 vpfstvvstt aiesteivtv tscsdgkceh akstvykivd atvtqtiwsc egdesatwap
601 aptpepqntq vqntpayqap sappvflpvw gtqsdgetvt htetaffnpq tytgppaqpt
661 gasggnggnn ggnnggnngg nnggnggndn nggssshssg itqangassi spmislvvll
721 lsfliwa (SEQ ID NO:4)

FIGURE 1C

```
        M  K  L  S  T  I  L  F  T  A  C  A  T  L  A  A  A  L  P  S  P  I  T  P  S  E  A  A  V

1   CACAATGAAG CTTTCCACCA TCCTTTTCAC AGCCTGCGCT ACCCTGGCTG CCGCCCTCCC TTCCCCCATC ACTCCTTCTG AGGCCGCAGT

        L  Q  K  R  G  G  G  D  I  Q  M  T  Q  S  P  S  S  L  S  A  S  V  G  D  R  V  T  I  T  C

91  TCTCCAGAAG CGAGGCGGCG GCGACATTCA GATGACTCAG TCTCCCTCTT CTCTGTCTGC TTCTGTGGGT GACCGAGTGA CCATTACCTG

        R  A  S  Q  D  V  N  T  A  V  A  W  Y  Q  Q  K  P  G  K  A  P  K  L  L  I  Y  S  A  S  F

181 TCGAGCTTCT CAGGACGTGA ACACTGCTGT TGCTTGGTAT CAGCAGAAGC CTGGAAAGGC TCCTAAGCTG CTGATCTACT CTGCCTCTTT

        L  Y  S  G  V  P  S  R  F  S  G  S  R  S  G  T  D  F  T  L  T  I  S  S  L  Q  P  E  D  F

271 CCTGTACTCT GGCGTGCCTT CTCGATTTTC TGGCTCTCGA TCTGGAACCG ACTTCACCCT GACCATTTCT TCTCTGCAGC CTGAGGACTT

        A  T  Y  Y  C  Q  Q  H  Y  T  T  P  P  T  F  G  Q  G  T  K  V  E  I  K  R  T  V  A  A  P

361 TGCTACCTAC TACTGTCAGC AGCATTACAC CACCCCTCCT ACTTTTGGAC AGGGCACCAA GGTTGAGATT AAGCGAACCG TGGCTGCTCC

        S  V  F  I  F  P  P  S  D  E  Q  L  K  S  G  T  A  S  V  V  C  L  L  N  N  F  Y  P  R  E

451 TTCTGTGTTC ATTTTCCCCC CCTCTGACGA GCAGCTGAAG TCTGGAACTG CTTCTGTTGT GTGCCTGCTG AACAACTTTT ACCCCCGAGA

        A  K  V  Q  W  K  V  D  N  A  L  Q  S  G  N  S  Q  E  S  V  T  E  Q  D  S  K  D  S  T  Y

541 GGCTAAGGTT CAGTGGAAGG TGGACAACGC TCTGCAGTCT GGAAACTCTC AGGAGTCTGT TACTGAGCAG GACTCTAAGG ACTCGACCTA

        S  L  S  S  T  L  T  L  S  K  A  D  Y  E  K  H  K  V  Y  A  C  E  V  T  H  Q  G  L  S  S

631 CTCTCTCTCT TCTACCCTGA CCCTGTCTAA GGCTGACTAC GAGAAGCATA AGGTGTACGC TTGTGAGGTT ACCCATCAGG GACTGTCCTC

        P  V  T  K  S  F  N  R  G  E  C  *

721 TCCCGTGACC AAGTCTTTTA ACCGAGGCGA GTGCTAA
```

FIGURE 1D

M K L S T I L F T A C A T L A A A L P S P I T P S E A A V

1 CACAATGAAG CTTTCCACCA TCCTTTTCAC AGCCTGCGCT ACCCTGGCTG CCGCCCTCCC TTCCCCCATC ACTCCTTCTG AGGCCGCAGT

L Q K R G G G E V Q L V E S G G G L V Q P G G S L R L S C A

91 TCTCCAGAAG CGAGGCGGCG GCGAGGTTCA GCTGGTTGAG TCTGGTGGAG GACTGGTTCA GCCTGGTGGA TCTCTGCGAC TGTCTTGTGC

A S G F N I K D T Y I H W V R Q A P G K G L E W V A R I Y P

181 TGCTTCTGGC TTCAACATCA AGGACACCTA CATTCATTGG GTCCGACAGG CTCCCGGAAA GGGACTGGAG TGGGTTGCCC GAATCTACCC

T N G Y T R Y A D S V K G R F T I S A D T S K N T A Y L Q M

271 TACCAACGGC TACACTCGAT ACGCTGACTC TGTGAAGGGA CGATTCACCA TTTCTGCCGA CACCTCTAAG AACACTGCCT ACCTGCAGAT

N S L R A E D T A V Y Y C S R W G G D G F Y A M D Y W G Q G

361 GAACTCTCTG CGAGCTGAGG ACACTGCTGT GTACTACTGT TCTCGATGGG GAGGTGACGG TTTTTACGCC ATGGACTACT GGGGACAGGG

T L V T V S S A S T K G P S V F P L A P S S K S T S G G T A

451 AACTCTGGTG ACCGTTTCTT CTGCTTCTAC CAAGGGACCT TCTGTGTTTC CTCTGGCCCC CTCTTCTAAG TCTACCTCTG GTGGAACTGC

A L G C L V K D Y F P E P V T V S W N S G A L T S G V H T F

541 TGCTCTGGGA TGTCTGGTGA AGGACTACTT TCCTGAGCCT GTGACTGTGT CTTGGAACTC TGGCGCTCTG ACTTCTGGTG TTCACACCTT

P A V L Q S S G L Y S L S S V V T V P S S S L G T Q T Y I C

631 CCCTGCTGTT CTGCAGTCCT CTGGACTGTA CTCTCTCTCT TCTGTGGTGA CCGTGCCTTC TTCTTCTCTG GGAACCCAGA CCTACATCTG

N V N H K P S N T K V D K/K V E P K S C D K T H T C P P C P

721 TAACGTGAAC CACAAGCCCT CTAACACTAA GGTGGACAAG AAGGTGGAGC CTAAGTCTTG TGACAAGACC CATACCTGTC CCCCTTGTCC

A P E L L G G P S V F L F P P K P K D T L M I S R T P E V T

811 TGCTCCTGAG CTGCTGGGAG GACCCTCTGT TTTTCTGTTC CCCCCCAAGC CTAAGGACAC CCTGATGATT TCTCGAACCC CTGAGGTGAC

C V V V D V S H E D P E V K F N W Y V D G V E V H N A K T K

```
901  CTGTGTTGTG GTGGACGTTT CTCATGAGGA CCCTGAGGTG AAGTTTAACT GGTACGTGGA CGGTGTTGAG GTTCACAACG CTAAGACTAA
       P  R  E  E  Q  Y  N  S  T  Y  R  V  V  S  V  L  T  V  L  H  Q  D  W  L  N  G  K  E  Y  K
991  GCCCCGAGAG GAGCAGTACA ACTCTACTTA CCGAGTGGTG TCTGTGCTGA CTGTTCTGCA TCAGGACTGG CTGAACGGAA AGGAATACAA
       C  K  V  S  N  K  A  L  P  A  P  I  E  K  T  I  S  K  A  K  G  Q  P  R  E  P  Q  V  Y  T
1081 GTGTAAGGTC TCCAACAAGG CTCTGCCTGC TCCTATTGAA AAGACCATCT CTAAGGCTAA GGGACAGCCC AGAGAGCCTC AGGTTTACAC
       L  P  P  S  R  E  E  M  T  K  N  Q  V  S  L  T  C  L  V  K  G  F  Y  P  S  D  I  A  V  E
1171 TCTGCCCCCT TCCCGAGAGG AGATGACCAA GAACCAGGTG TCCCTGACTT GTCTGGTCAA GGGATTCTAC CCCTCTGACA TTGCTGTTGA
       W  E  S  N  G  Q  P  E  N  N  Y  K  T  T  P  P  V  L  D  S  D  G  S  F  F  L  Y  S  K  L
1261 GTGGGAGTCT AACGGACAGC CTGAGAACAA CTACAAGACC ACCCCTCCTG TTCTGGACTC TGACGGCTCT TTCTTCCTGT ACTCTAAGCT
       T  V  D  K  S  R  W  Q  Q  G  N  V  F  S  C  S  V  M  H  E  A  L  H  N  H  Y  T  Q  K  S
1351 GACCGTGGAC AAGTCTCGAT GGCAGCAGGG AAACGTGTTC TCTTGTCCG TGATGCATGA GGCTCTGCAC AACCACTACA CCCAGAAGTC
       L  S  L  S  P  G  K  *
1441 TCTGTCTCTG TCTCCCGGCA AGTAA
```

FIGURE 1D (CONT.)

FIG. 2

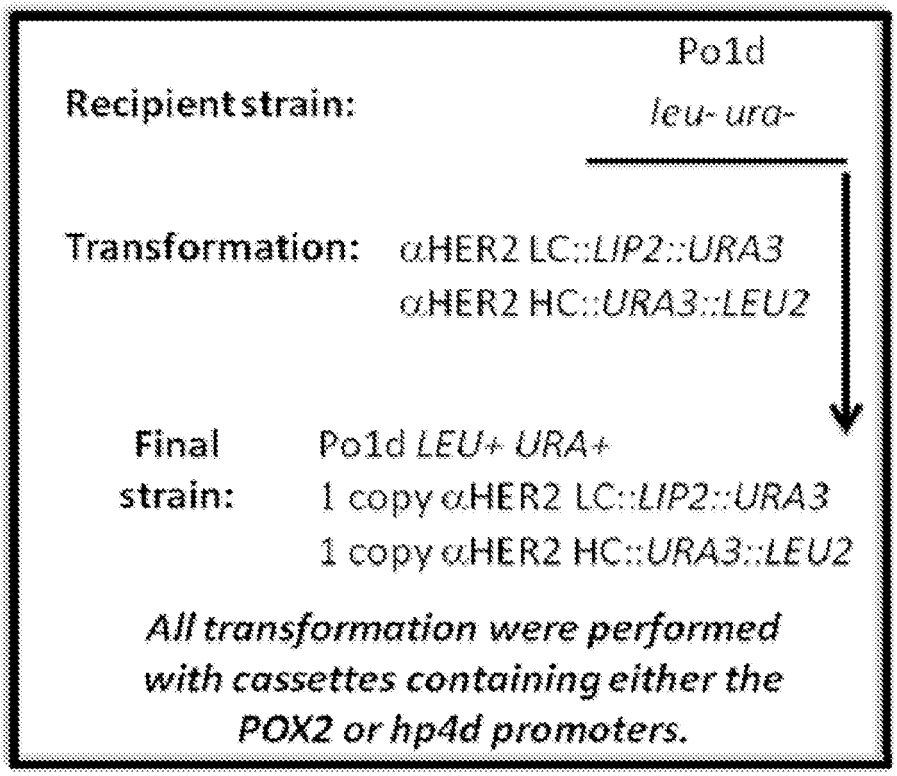

Po1d
Recipient strain:
leu- ura-
Transformation:
αHER2 LC::LIP2::URA3
αHER2 HC::URA3::LEU2
Final strain:
Po1d LEU+ URA+
1 copy αHER2 LC::LIP2::URA3
1 copy αHER2 HC::URA3::LEU2
All transformation were performed with cassettes containing either the POX2 or hp4d promoters.

FIG. 3

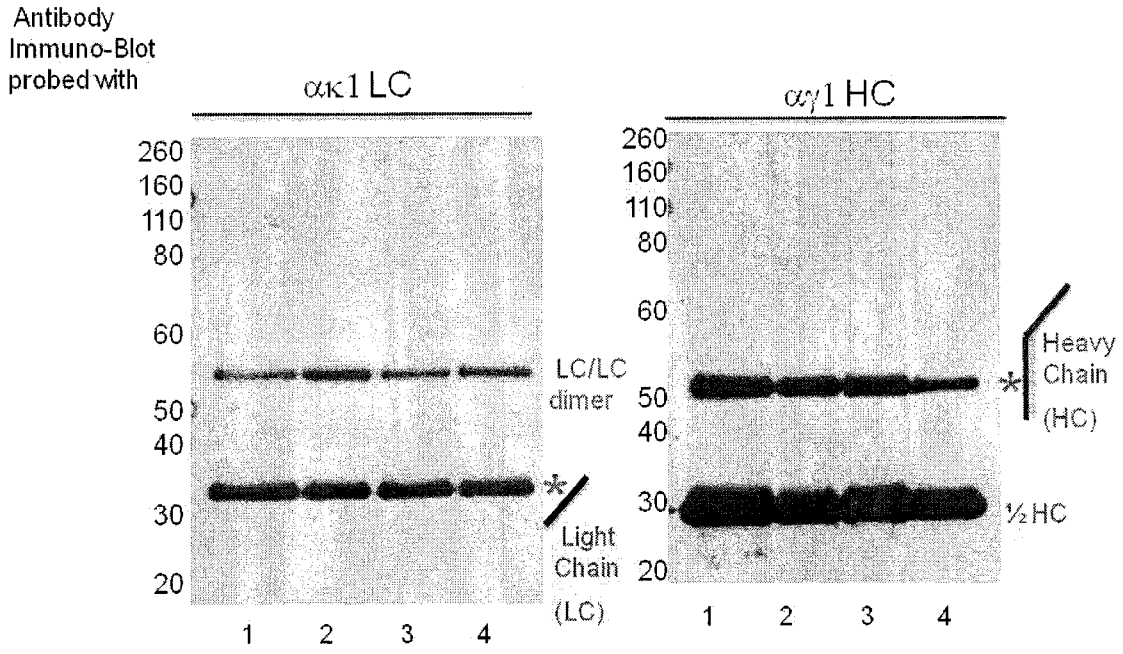
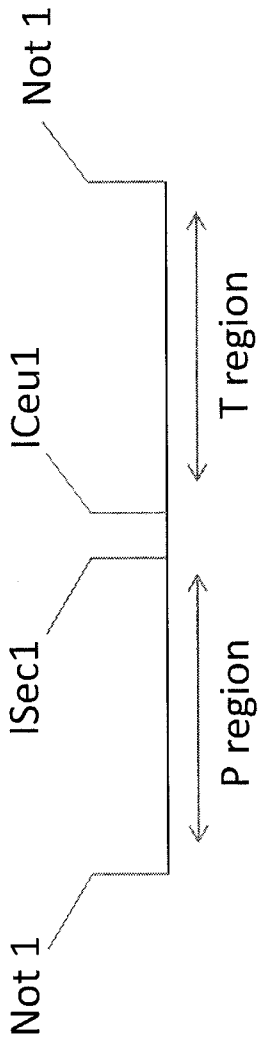

Antibody
Immuno-Blot
probed with
ακ1 LC
αγ1 HC
260
160
110
80
60
50
40
30
20
LC/LC
dimer
Light
Chain
(LC)
Heavy
Chain
(HC)
½ HC
1
2
3
4

FIGURE 4



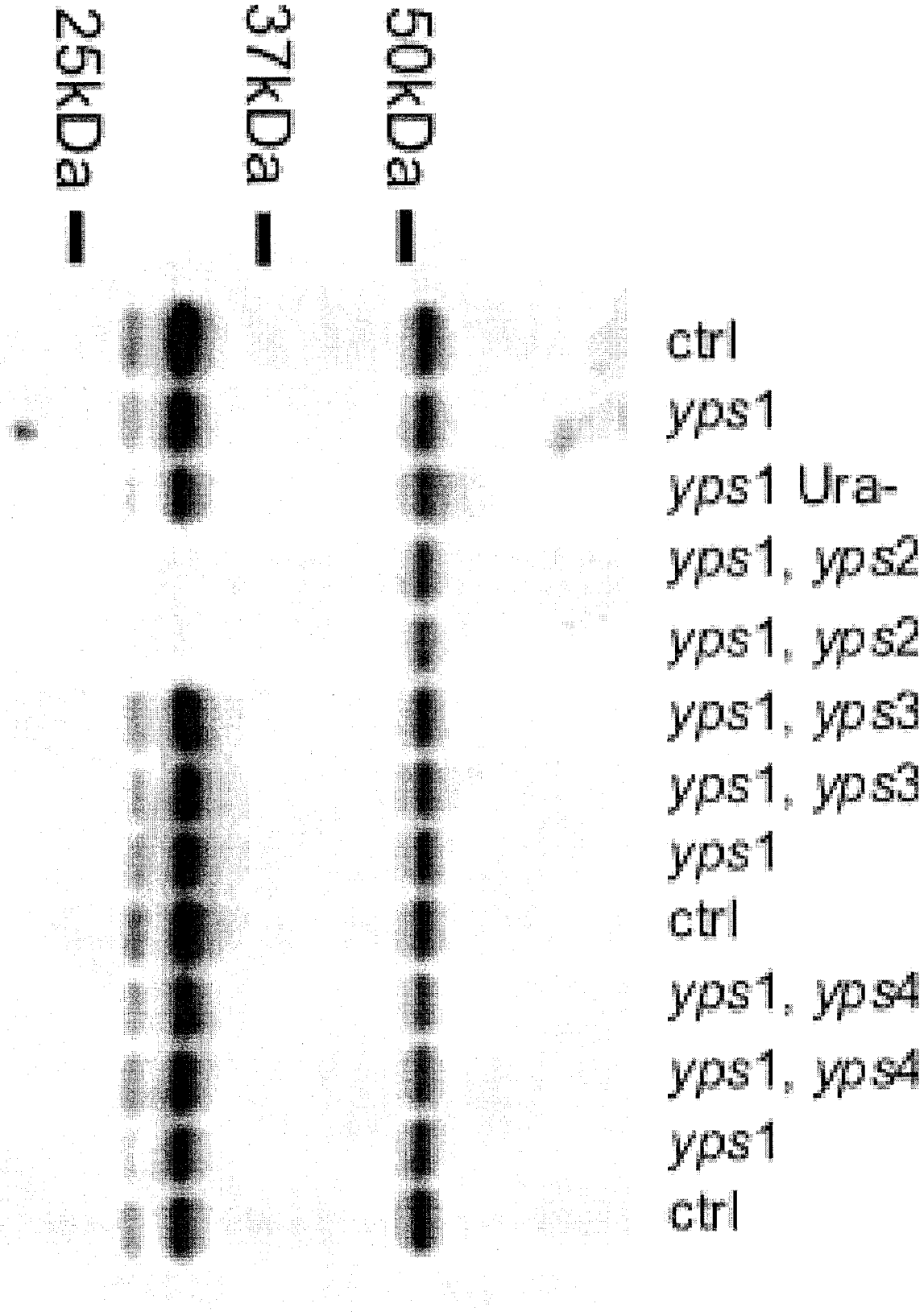

25kDa
37kDa
50kDa
ctrl
yps1
yps1 Ura-
yps1, yps2
yps1, yps2
yps1, yps3
yps1, yps3
yps1
ctrl
yps1, yps4
yps1, yps4
yps1
ctrl

FIGURE 5

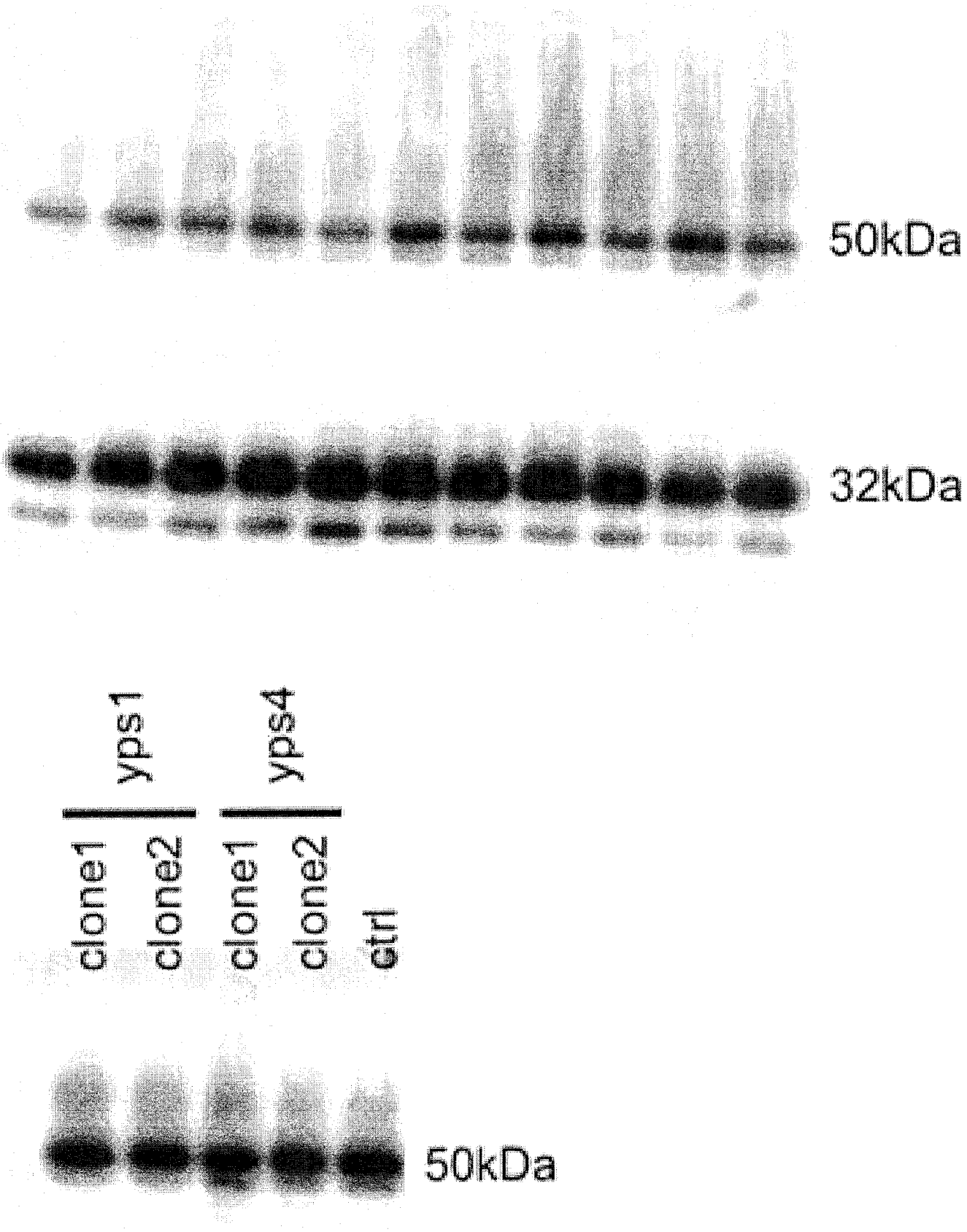

50kDa
32kDa
yps1
yps4
clone1
clone2
clone1
clone2
ctrl
50kDa

FIGURE 6

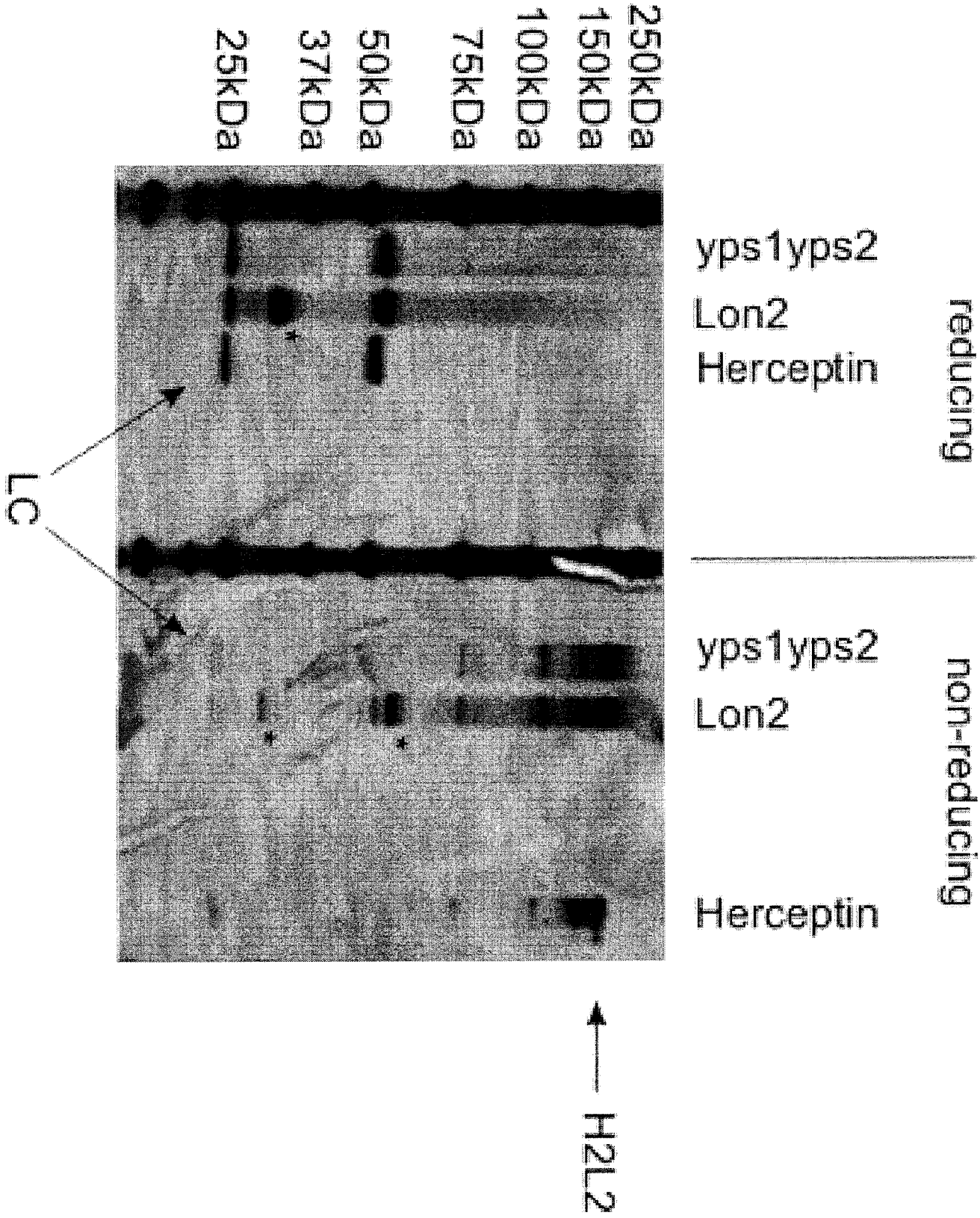

250kDa
150kDa
100kDa
75kDa
50kDa
37kDa
25kDa
yps1yps2
Lon2
Herceptin
reducing
yps1yps2
Lon2
Herceptin
non-reducing
LC
H2L2

FIGURE 7