SEQUENCE LISTING

```
<110>  ALDER BIOPHARMACEUTICALS, INC.
       Lesnicki, Gary
       McNeill, Patricia Dianne
       Hartner, Franz
       Young, Mark


<120>  TEMPERATURE SHIFT FOR HIGH YIELD
EXPRESSION OF POLYPEPTIDES
       IN YEAST AND OTHER TRANSFORMED CELLS


<130>  43257.3013

<141>  2014-03-17

<150>  61/791471
<151>  2013-03-15

<150>  61/790,613
<151>  2013-03-15

<160>  28

<170>  PatentIn version 3.5

<210>  1
<211>  1326
<212>  DNA
<213>  Artificial

<220>
<223>  Engineered antibody sequence

<400>  1
gaggtgcagc ttgtggagtc tgggggaggc ttggtccagc
ctgggggggtc cctgagactc        60

tcctgtgcag tctctggaat cgacctcagt ggctactaca
tgaactgggt ccgtcaggct       120

ccagggaagg ggctggagtg ggtcggagtc attggtatta
atggtgccac atactacgcg       180

agctgggcga aaggccgatt caccatctcc agagacaatt
ccaagaccac ggtgtatctt       240

caaatgaaca gcctgagagc tgaggacact gctgtgtatt
tctgtgctag aggggacatc       300

tggggccaag ggaccctcgt caccgtctcg agcgcctcca
ccaagggccc atcggtcttc       360

cccctggcac cctcctccaa gagcacctct gggggcacag
cggccctggg ctgcctggtc       420

aaggactact tccccgaacc ggtgacggtg tcgtggaact
caggcgccct gaccagcggc       480

gtgcacacct tcccggctgt cctacagtcc tcaggactct
actccctcag cagcgtggtg       540

accgtgccct ccagcagctt gggcacccag acctacatct
gcaacgtgaa tcacaagccc       600

agcaacacca aggtggacgc gagagttgag cccaaatctt
gtgacaaaac tcacacatgc       660

ccaccgtgcc cagcacctga actcctgggg ggaccgtcag
tcttcctctt ccccccaaaa       720

cccaaggaca ccctcatgat ctcccggacc cctgaggtca
catgcgtggt ggtggacgtg       780

agccacgaag accctgaggt caagttcaac tggtacgtgg
acggcgtgga ggtgcataat       840

gccaagacaa agccgcggga ggagcagtac gccagcacgt
accgtgtggt cagcgtcctc       900

accgtcctgc accaggactg gctgaatggc aaggagtaca
agtgcaaggt ctccaacaaa       960

gccctcccag cccccatcga gaaaaccatc tccaaagcca
aagggcagcc ccgagaacca      1020

caggtgtaca ccctgccccc atcccgggag gagatgacca
agaaccaggt cagcctgacc      1080

tgcctggtca aaggcttcta tcccagcgac atcgccgtgg
agtgggagag caatgggcag      1140

ccggagaaca actacaagac cacgcctccc gtgctggact
ccgacggctc cttcttcctc      1200

tacagcaagc tcaccgtgga caagagcagg tggcagcagg
ggaacgtctt ctcatgctcc      1260

gtgatgcatg aggctctgca caaccactac acgcagaaga
gcctctccct gtctccgggt      1320

aaatga
1326
```

<210> 2
<211> 660
<212> DNA
<213> Artificial

<220>
<223> Engineered antibody sequence

<400> 2
caagtgctga cccagtctcc atcctccctg tctgcatctg
taggagacag agtcaccatc   60

aattgccagg ccagtcagag tgtttatcat aacacctacc
tggcctggta tcagcagaaa   120

ccagggaaag ttcctaagca actgatctat gatgcatcca
ctctggcatc tggggtccca   180

tctcgtttca gtggcagtgg atctgggaca gatttcactc
tcaccatcag cagcctgcag   240

cctgaagatg ttgcaactta ttactgtctg ggcagttatg
attgtactaa tggtgattgt   300

tttgttttcg gcggaggaac caaggtggaa atcaaacgta
cggtggctgc accatctgtc   360

ttcatcttcc cgccatctga tgagcagttg aaatctggaa
ctgcctctgt tgtgtgcctg   420

ctgaataact tctatcccag agaggccaaa gtacagtgga
aggtggataa cgccctccaa   480

tcgggtaact cccaggagag tgtcacagag caggacagca
aggacagcac ctacagcctc   540

agcagcaccc tgacgctgag caaagcagac tacgagaaac
acaaagtcta cgcctgcgaa   600

gtcacccatc agggcctgag ctcgcccgtc acaaagagct
tcaacagggg agagtgttag   660

<210> 3
<211> 1350
<212> DNA
<213> Artificial

<220>
<223> Engineered antibody sequence

<400> 3
gaggtgcagc tggtggagtc tgggggaggc ttggtccagc
ctggggggtc cctgagactc   60

tcctgtgcag cctctggatt ctccctcagt aactactacg
tgacctgggt ccgtcaggct   120

ccagggaagg ggctggagtg ggtcggcatc atctatggta
gtgatgaaac cgcctacgct   180

acctccgcta taggccgatt caccatctcc agagacaatt
ccaagaacac cctgtatctt   240

caaatgaaca gcctgagagc tgaggacact gctgtgtatt
actgtgctag agatgatagt   300

agtgactggg atgcaaagtt caacttgtgg ggccaaggga
ccctcgtcac cgtctcgagc   360

gcctccacca agggcccatc ggtcttcccc ctggcaccct
cctccaagag cacctctggg   420

ggcacagcgg ccctgggctg cctggtcaag gactacttcc
ccgaaccggt gacggtgtcg   480

tggaactcag gcgccctgac cagcggcgtg cacaccttcc
cggctgtcct acagtcctca   540

ggactctact ccctcagcag cgtggtgacc gtgccctcca
gcagcttggg cacccagacc   600

tacatctgca acgtgaatca caagcccagc aacaccaagg
tggacaagag agttgagccc   660

aaatcttgtg acaaaactca cacatgccca ccgtgcccag
cacctgaact cctgggggga   720

ccgtcagtct tcctcttccc cccaaaaccc aaggacaccc
tcatgatctc ccggacccct   780

gaggtcacat gcgtggtggt ggacgtgagc cacgaagacc
ctgaggtcaa gttcaactgg   840

tacgtggacg gcgtggaggt gcataatgcc aagacaaagc
cgcgggagga gcagtacgcc   900

agcacgtacc gtgtggtcag cgtcctcacc gtcctgcacc
aggactggct gaatggcaag   960

gagtacaagt gcaaggtctc caacaaagcc ctcccagccc
ccatcgagaa aaccatctcc   1020

aaagccaaag ggcagccccg agaaccacag gtgtacaccc
tgcccccatc ccgggaggag   1080

```
atgaccaaga accaggtcag cctgacctgc ctggtcaaag
gcttctatcc cagcgacatc     1140

gccgtggagt gggagagcaa tgggcagccg gagaacaact
acaagaccac gcctcccgtg     1200

ctggactccg acggctcctt cttcctctac agcaagctca
ccgtggacaa gagcaggtgg     1260

cagcagggga acgtcttctc atgctccgtg atgcatgagg
ctctgcacaa ccactacacg     1320

cagaagagcc tctccctgtc tccgggtaaa
1350


<210>  4
<211>  651
<212>  DNA
<213>  Artificial

<220>
<223>  Engineered antibody sequence

<400>  4
gctatccaga tgacccagtc tccttcctcc ctgtctgcat
ctgtaggaga cagagtcacc       60

atcacttgcc aggccagtca gagcattaac aatgagttat
cctggtatca gcagaaacca      120

gggaaagccc ctaagctcct gatctatagg gcatccactc
tggcatctgg ggtcccatca      180

aggttcagcg gcagtggatc tgggacagac ttcactctca
ccatcagcag cctgcagcct      240

gatgattttg caacttatta ctgccaacag ggttatagtc
tgaggaacat tgataatgct      300

ttcggcggag ggaccaaggt ggaaatcaaa cgtacggtgg
ctgcaccatc tgtcttcatc      360

ttcccgccat ctgatgagca gttgaaatct ggaactgcct
ctgttgtgtg cctgctgaat      420

aacttctatc ccagagaggc caaagtacag tggaaggtgg
ataacgccct ccaatcgggt      480

aactcccagg agagtgtcac agagcaggac agcaaggaca
gcacctacag cctcagcagc      540

accctgacgc tgagcaaagc agactacgag aaacacaaag
tctacgcctg cgaagtcacc      600

catcagggcc tgagctcgcc cgtcacaaag agcttcaaca
ggggagagtg t               651


<210>  5
<211>  18
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  5

Met Arg Ser Leu Leu Ile Leu Val Leu Cys Phe
Leu Pro Leu Ala Ala
1               5                   10
15


Leu Gly



<210>  6
<211>  16
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  6

Met Arg Leu Leu Leu Leu Leu Leu Leu Leu Pro
Leu Ala Ala Leu Gly
1               5                   10
15


<210>  7
<211>  19
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  7
```

```
Met Leu Leu Gln Ala Phe Leu Phe Leu Leu Ala
Gly Phe Ala Ala Lys
1               5                   10
15


Ile Ser Ala




<210>  8
<211>  35
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  8

Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu
Phe Ala Ala Ser Ser
1               5                   10
15


Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu
Glu Gly Val Ser Leu
            20                  25
30


Glu Lys Arg
        35


<210>  9
<211>  22
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  9

Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu
Phe Ala Ala Ser Ser
1               5                   10
15


Ala Leu Ala Ala Pro Val
            20


<210>  10
<211>  27
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  10

Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu
Phe Ala Ala Ser Ser
1               5                   10
15


Ala Leu Ala Ala Pro Val Ser Leu Glu Lys Arg
            20                  25


<210>  11
<211>  41
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  11

Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu
Phe Ala Ala Ser Ser
1               5                   10
15


Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu
Glu Gly Val Ser Leu
            20                  25
30


Glu Lys Arg Glu Ala Glu Ala Glu Ala
        35                  40
```

```
<210>  12
<211>  85
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  12

Met Arg Phe Pro Ser Ile Phe Thr Ala Val Leu
Phe Ala Ala Ser Ser
1               5                   10
15


Ala Leu Ala Ala Pro Val Asn Thr Thr Thr Glu
Asp Glu Thr Ala Gln
            20                  25
30


Ile Pro Ala Glu Ala Val Ile Gly Tyr Ser Asp
Leu Glu Gly Asp Phe
        35                  40
45


Asp Val Ala Val Leu Pro Phe Ser Asn Ser Thr
Asn Asn Gly Leu Leu
    50                  55                  60


Phe Ile Asn Thr Thr Ile Ala Ser Ile Ala Ala
Lys Glu Glu Gly Val
65                  70                  75
80


Ser Leu Glu Lys Arg
                85


<210>  13
<211>  44
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  13

Met Thr Lys Pro Thr Gln Val Leu Val Arg Ser
Val Ser Ile Leu Phe
1               5                   10
15


Phe Ile Thr Leu Leu His Leu Val Val Ala Leu
Asn Asp Val Ala Gly
            20                  25
30


Pro Ala Glu Thr Ala Pro Val Ser Leu Leu Pro
Arg
        35                  40


<210>  14
<211>  22
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  14

Met Phe Ser Pro Ile Leu Ser Leu Glu Ile Ile
Leu Ala Leu Ala Thr
1               5                   10
15


Leu Gln Ser Val Phe Ala
            20


<210>  15
<211>  22
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  15

Met Gln Thr Leu Leu Val Ser Ser Leu Val Val
Ser Leu Ala Ala Ala
1               5                   10
```

```
15


Leu Pro His Tyr Ile Arg
            20


<210>  16
<211>  22
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  16

Met Ile Phe Leu Lys Leu Ile Lys Ser Ile Val
Ile Gly Leu Gly Leu
1               5                   10
15


Val Ser Ala Ile Gln Ala
            20


<210>  17
<211>  24
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  17

Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe
Leu Phe Ser Ser Ala
1               5                   10
15


Tyr Ser Arg Gly Val Phe Arg Arg
            20


<210>  18
<211>  18
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  18

Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe
Leu Phe Ser Ser Ala
1               5                   10
15


Tyr Ser



<210>  19
<211>  24
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  19

Met Ala Leu Trp Met Arg Leu Leu Pro Leu Leu
Ala Leu Leu Ala Leu
1               5                   10
15


Trp Gly Pro Asp Pro Ala Ala Ala
            20


<210>  20
<211>  24
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  20

Met Lys Tyr Thr Ser Tyr Ile Leu Ala Phe Gln
Leu Cys Ile Val Leu
1               5                   10
15
```

```
Gly Ser Leu Gly Cys Asp Leu Pro
            20


<210>  21
<211>  26
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  21

Met Ala Ala Asp Ser Gln Thr Pro Trp Leu Leu
Thr Phe Ser Leu Leu
1               5                   10
15


Cys Leu Leu Trp Pro Gln Glu Pro Gly Ala
            20                  25


<210>  22
<211>  27
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  22

Met Lys Lys Asn Arg Met Met Met Met Ile Trp
Ser Val Gly Val Val
1               5                   10
15


Trp Met Leu Leu Leu Val Gly Gly Ser Tyr Gly
            20                  25


<210>  23
<211>  18
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  23

Met Gln Lys Leu Ile Ile Phe Ala Leu Val Val
Leu Cys Val Gly Ser
1               5                   10
15


Glu Ala



<210>  24
<211>  18
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  24

Met Lys Ala Leu Ile Val Leu Gly Leu Val Leu
Leu Ser Val Thr Val
1               5                   10
15


Gln Gly



<210>  25
<211>  20
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  25

Met Val Asp Gly Val Met Ile Leu Pro Val Leu
Ile Met Ile Ala Leu
1               5                   10
15


Pro Ser Pro Ser
```

```
             20


<210>  26
<211>  19
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  26

Met Gly Ala Ala Ala Lys Leu Ala Phe Ala Val
Phe Leu Ile Ser Cys
1               5                   10
15


Ser Ser Gly




<210>  27
<211>  31
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  27

Met Leu Ser Leu Lys Pro Ser Trp Leu Thr Leu
Ala Ala Leu Met Tyr
1               5                   10
15


Ala Met Leu Leu Val Val Val Pro Phe Ala Lys
Pro Val Arg Ala
            20                  25
30


<210>  28
<211>  22
<212>  PRT
<213>  Artificial


<220>
<223>  Secretion peptide

<400>  28

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly
Leu Leu Leu Leu Trp
1               5                   10
15


Leu Pro Gly Ala Lys Cys
            20
```