

SEL PCT 012.ST25
SEQUENCE LISTING

<110> Selexis S.A.

<120> HIGH EFFICIENCY GENE TRANSFER AND EXPRESSION IN MAMMALIAN
CELLS BY A MULTIPLE TRANSFECTION PROCEDURE OF MAR SEQUENCES

<130> SEL PCT 012

<150> US 60/513,574

<151> 2003-10-24

<150> EP 04 002 722.9

<151> 2004-02-06

<160> 241

<170> PatentIn version 3.1

<210> 1

<211> 320

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

SEL PCT 012.ST25

<222> (1)..(320)

<223> MAR of human chromosome 1, nt from 36686 to 37008

<220>

<221> misc_binding

<222> (1)..(320)

<223> MAR of human chromosome 1, genomic contig; 36686 to 37008

<400> 1

ttatattatg ttgttatata tatttatatta tgttattaga ttatattatg ttgttatatt 60

atataataat attatattat atattatata ttatattata taatatataa taatattata 120

taattatata ttacattata taatatataa taatattata taattatata ttacattata 180

taatatataa taatattata taataatata taattatata atatataata atattatata 240

atattatata atattatata atatatataat atataataat atataattata ttatataata 300

gtatataata ttatataata 320

<210> 2

<211> 709

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(709)

<223> MAR of human chromosome 1, nt from 142276 to 142984

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(709)

<223> MAR of human chromosome 1, genomic contig; 142276 to 142984

<400> 2

tacaatatat ttctattat atatatttg tattatatat aatatacaat atattttcta 60

ttatatataa tataatttg attatatata ttacaatata ttgtgatta tataatatat 120

aatacaatat ataatatatt gtattatata ttatatata caatatatta tatattgtat 180

tatatattat atataaact atataatata ttgtattata tattatatat aatactatat 240

aatatatttt attatatatt atatataata caatatataa tatattgtat tataatacaa 300

tgattataa tgtattatat tgtattatat attatatata atacaatata taataatata 360

ttataatata taataataat ataataaat aataatatat attgtattat atattatata 420

atacaatata taataatttg tattatatat atttattac atataatata taatacatta 480

tataatatat ttgtattat atataatata ttattattg tattatagat aatatatttt 540

attatatatt atatataata caatatataa tataatttgg attgtatata atatataata 600

caatatataa tatattgtat tatatataat attaatatat ttgtattat atatttatat 660

tttatattat aattatgttt tgcattatat attcatatt atatatacc 709

<210> 3

<211> 409

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

SEL PCT 012.ST25

<222> (1)..(409)

<223> MAR of human chromosome 1, nt from 1368659 to 1369067

<220>

<221> misc_binding

<222> (1)..(409)

<223> MAR of human chromosome 1, genomic contig; 1368659 to 1369067

<400> 3

```
tacacataaa tacatatgca tatatatatt gtatatatac ataaatacat atgcatatac   60
attatgtata tatacataaa tacatatgca tatacattat gtatatatac ataaatacat  120
atgcatatac attatgtata tatacataaa tacatatgca tatacattat gtatatatac  180
ataaatacat atgcatatac attatgtata tatacataaa tacatatgca tatacattat  240
gtatatatac ataaatacat atgcatatac tatatacata aattatatta tatacataat  300
acatatatac atattatgtg tatatatata taaatacata tacatatatt atgtgtatat  360
atacatgata catatacata tattatgtat atatatacat aaatacata             409
```

<210> 4

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(394)

<223> MAR of human chromosome 1, genomic contig; 2839089 to 2839482

SEL PCT 012.ST25

<400> 4

```
tatgtatata tacacacata tgtatatata cacacatacg tatatacgta tatatgtata 60
tatacacaca tatgtatata cgtatatatg tatatatata cacatatgta tatacgtata 120
tatgtatata tacacacata tgtatatatg tatatatgta tatatacaca catatgtata 180
tatgtatata tacacacata tgtatatatg tatatatgta tatatacaca catgtgtata 240
tatatatata catatgtata tatgtatata tacacacata tgtatatatg tgtatgtata 300
tatacacaca tatgtatata tacacacata tatgtatata tacacacata cttatatata 360
cacatatata tgtatatata cacatatgta taca 394
```

<210> 5

<211> 832

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(832)

<223> MAR of human chromosome 1, genomic contig; 1452269 to 1453100

<400> 5

```
tatattacta tatatacaat atacatatta ctatatatac catgtattac tatatatatc 60
tactatatat attactatat atacaaaata tatattacta tatatacaat atacatatta 120
ctatatatac catatattac tatatatatc tactatatat attactatat atacaaaata 180
tatattacta tatatactat atattactgt atatacaata tatattacta tatatatact 240
atatattact atatatacac tatatattac tatatatata caatatatat attactatat 300
```

SEL PCT 012.ST25

atacacaatg tatataacta tatatacaat atataattact atataacta tatatattac 360

tatacatact atataattact ctatatatac aatatatata ttacaatata tactacatat 420

tactacatat actttatata ttactatata tactatatat tactgtatat acaatatata 480

ttactaaata tacacaatat atattactat atatacaaa tatatatatt actatatata 540

cacattatat atgactatat atacacacta tatalattac tatatatata caatatataa 600

ctatatatac acagtatata tattactata tatacacaa atatatatta ctatatatac 660

actatatatt actatatata cacaatatat attactatat gtatacacta tatatattac 720

tatatataca gaatatatat aactatatat acactattatt actatatata ctatatatta 780

ctatatgtac tatatatatt actatatata ctatatatta ctatatatac ac 832

<210> 6

<211> 350

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(350)

<223> MAR of human chromosome 1, genomic contig; 831495 to 831844

<400> 6

aatatataat atataaatat taatatgtat tatataaat atattaatat attatattat 60

attactatat aaataatatt aatatattat attaaaatat taataaatat atcatattaa 120

atattatatt aattaaatat taataaatat attatattaa tatatttata tattaaacct 180

ataacatatg catatactta ttatatata acaigcatgt acttatttat atatacaata 240

tatatttata tattatataa tatattatat gtatttatat attatatatc atattattata 300

SEL PCT 012.ST25

tgtatttata tattatatat catataatat atatatattat attatatata 350

<210> 7

<211> 386

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(386)

<223> MAR of human chromosome 1, genomic contig; 1447225 to 1447610

<400> 7

acatttaatt taattatata ctgctatata taattaaatc tatatatcta tataacttat 60

aatttatatt aatttaatta tatatactat atagttatat atacatatat gtaattatat 120

atagtataat tatagtatat atgtatatat aatgtaagta aatatatagt atatatattat 180

atatactata tatttataca tatgtcttta tatatactaa tatatataca catatgtaat 240

atgtacatat ggcatatatt ttatagtga tatatacata tatgtaatat atatagtaat 300

atgtaaatat ataglacata tttaattata tggtaatatata tacacatatata tgtaatatgt 360

gtattatagt acatatftta tagtat 386

<210> 8

<211> 585

<212> DNA

<213> Homo sapiens

<220>

SEL PCT 012.ST25

<221> misc_binding

<222> (1)..(585)

<223> MAR of human chromosome 1, genomic contig; 4955365 to 4955949

<400> 8

```

atacacacat atacacatat gtacgtatat atactatata tacacacata tacacatatg   60
tacgtatata tactatatat acacacatat acacatatgt acgtatatat actatatata   120
cacacatata cacatatgta cgtatatata ctatatatac acacatatat acatatgtac   180
gtatatatac tatatatata cacatatata catatgtacg tatatattat atatacacac   240
atatacacat atgtacgtat atatactata tatacacaca tatacacata tgtacgtata   300
tatactatat atacacacat atacacatat gtacgtatat atactatata tacacacata   360
tacacatatg tacgtatata tactatatat acacacatat acacatatgt acgtatatat   420
actatatata cacacatata cacatatgta cgtatatata ctatatatac acacatatat   480
acatatgtac gtatatatac tatatatata cacatatata catatgtacg tatatatat   540
atatataccc atacacatac gtatatacgt acatatatat acgta                      585

```

<210> 9

<211> 772

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(772)

<223> MAR of human chromosome 1, genomic contig; 5971862 to 5972633

SEL PCT 012.ST25

<400> 9

```

agtaaacata tatatagtaa atatatatag tgtatatata gtaaatatat atagtgcata   60
tatatagtc atatatatag tgtatatata gtaaatatat agtgtatata tatagtaa   120
atatatagtg tatatatagt aaatatatat agtaaata tatatactat atatagtaaa   180
tatatatata ctatatatag taaatatata tatagtatat atatagtaaa tatatatata   240
gtatatatat agtaaata tatatagtat atatatagta aatatatata tagtatatat   300
agtaaata tatagtatat atatagtaaa tatatatata gtatatatat agtaaata   360
tatatagtat atatatagta aatatatata tagtatatat atagtaata tatatagtat   420
atatatagta aatatatata gtatatatat agtaaata tatagtatat atatagtaaa   480
tatatatata ctgtatatat atagtaata tatatactat gtatatatat agtaaata   540
tatatactgt atatatatag taaatatata tacactgtat atatatagta aatatatata   600
cactgtatat acatagtaaa tatatatata ctgtatatat atagtaata tatatact   660
gtatatatat agtaaata tatatactgt atatatatag taaatatata tacagtgtat   720
atacatagta aatatatata cagtgtatat acatagtaaa tatatatata gt       772

```

<210> 10

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(304)

<223> MAR of human chromosome 1, genomic contig; 6221897 to 6222200

<400> 10

SEL PCT 012.ST25

atataaata tatataatta tattatatat aatatataat atataaatt atattatata 60
 ttatatataa tatattatat attatatata taatatatat tatatattaa atatatatta 120
 tatatataat atatatata tattaaatat atattatata tataatatat attatatata 180
 atatatataa tatatattat atatatatta tatattatat atatatatta tatatatata 240
 atatatataa tatatattat atataatata tattatatat atataatata tataatatat 300
 atta 304

<210> 11

<211> 311

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(311)

<223> MAR of human chromosome 1, genomic contig; 9418531 to 9418841

<400> 11

tatatataat atttatatat aatattcatg tatttatata taaatattta tatatttata 60
 tataaatatt tatatattta tatataaata ttatatatt tatatataat atttatatat 120
 tatatataat atttatatat tatatataat atttatatat aatatttata tattatatat 180
 aatatttata tatttatatg tataatatat attttatata tgtatgtata atatatattt 240
 tatatatgta tgtataatat attttatata tgtatgtata atatatattt atatatataa 300
 tataatttat a 311

<210> 12

<211> 302

SEL PCT 012.ST25

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(302)

<223> MAR of human chromosome 1, genomic contig; 15088789 to 15089090

<400> 12

atataatata tatattatat atataaatat atataaatat ataacatata tattatatat 60

aaatatatat aaatatataa catatatatt atatataaa atatataaa atatataaca 120

tatatattat atatataaat atatataaat atataacata tatattatat atataaatat 180

atattatata ttatatata taatatatat aaatatataa tatatattta tatatataat 240

atatataaat atataatata tatatttata tataatatat ataaatatat aatatataat 300

at 302

<210> 13

<211> 461

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(461)

<223> MAR of human chromosome 1, genomic contig; 6791827 to 6792287

SEL PCT 012.ST25

<400> 13

tatataatat atattatata tacacatata taatatatat tatatafaca catatataat	60
atatattata tatacacata tataatatat attatatata cacatatata atatattatta	120
tatatacaca tatataatat atattatata tacacatata taatatatat tatatatata	180
catatataat atataattata tatacacata tataatatat attatatata cacatatata	240
atatattatta tatatacaca tatgtaatat atattatata cacacatata atatatatta	300
tatacacata tataatatat attatatata catatataat atattattata tatacacata	360
tataatatat attatatata cacatatata atatatatta tatatacaca tataatatat	420
aatatatata catatataat atatatatta tatatgcaca t	461

<210> 14

<211> 572

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(572)

<223> MAR of human chromosome 1, genomic contig; 163530 to 164101

<400> 14

atattataat tatatatatt atatataatt atataaaata tatattataa ttatatatat	60
tttatataat atatatatta taattaatat attatatata atatatatat tatatatataat	120
atatatatta tatatattat atataatata tataatatat ataatatata atataatata	180
tatattatat ataatatata atatatataa tatattataa tataatatat ataatatata	240
atataatata tataatatat aatatatat ataatatata atatatataa tatataatat	300

SEL PCT 012.ST25

aatatataat atataataa tataatataa tatataatat atataatata ttataatata 360

atatatataa tatataatat aatatatata atataataa taatatataa tatataatat 420

atatttaata tatttattaa ttatttgta tatatttatt aatatataat atataatata 480

ttataatat tataactata tattatatta taattatata tattatatat atacaattat 540

aattatatat tatatatact tataatatat at 572

<210> 15

<211> 357

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(357)

<223> MAR of human chromosome 1, genomic contig; 1842332 to 1842688

<400> 15

tatatctata tatatctata tatatataat atagataata tctatatata taatatagat 60

aatattatct atataataa tagataatat tatctatata taatatagat aatattatct 120

atatataaaa ttataftata tctatatata ttatatatat aaaattatat tatatctata 180

tataatatag ataatatcta tatataaata gataatatct atatatataa tatagatat 240

atctatatta tagatataga taataftatc tatattatag atattatcta tatataatat 300

agataatat atctatatta tatatataat atatctatat tatctataat attatct 357

<210> 16

<211> 399

<212> DNA

SEL PCT 012.ST25

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(399)

<223> MAR of human chromosome 1, genomic contig; 2309560 to 2309958

<400> 16

attatatata atatatatta tatattatat atatcaagca gcagatatata tatataatat 60

atataatata tataatatat attgtatatt atataatata taatatatat aatatatatt 120

gtatattata taatatataa tatatataat atatttgta tattatataa tatataatat 180

atataatata tattgtatat tatataatat ataatatatg taatatatta tgtaatatat 240

tatataatat atattatata ttatatataa tatatattat atataatata tattacataa 300

tatattacat atattacgta atatatgta tatattacat ataatatata acatatatta 360

cgtaatatat gtaatatatt acatataata tatacatta 399

<210> 17

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(394)

<223> MAR of human chromosome 1, genomic contig; 2231759 to 2232152

SEL PCT 012.ST25

<400> 17
 atatatactt ataaattata tacttatata tacttataaa ttatatactt atatatactt 60
 ataaattata tacttatata tacttataaa ttatatactt atatatactt ataaattata 120
 tacttatata tacttataaa ttatatactt atatatactt ataaattata tacttatata 180
 tacttataaa ttatatactt atatataatt ataaattata tacttatata taattataaa 240
 ttatatactt atatataatt ataaattata tacttatata taattataaa ttatatactt 300
 atatataatt ataaattata tacatatata taattataaa ttatatacat atataattat 360
 aaattatata catatataat tataaattat atac 394

<210> 18

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(387)

<223> MAR of human chromosome 1, genomic contig; 7406524 to 7406910

<400> 18
 tatattatat ataatatata ttatatataa tataaataat atatattata tataatatat 60
 aaataatata taatatataa ataatatata atatataata tataaataat atataatata 120
 taacatatata ataatatata taatatataa ataatatata taatatataa ataatatata 180
 taatatataa aaatatataa tatataatac atatataaat aatatattat attatatatg 240
 atacataata tattatatat aatatattat atgatacata atatattata tagaatatat 300
 tatatgatac ataatatatt atatagaata tattatatga tacataatat attatatgat 360

acataatata ttatataataa tatatta

387

<210> 19

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(370)

<223> MAR of human chromosome 1, genomic contig; 9399572 to 9399941

<400> 19

catatataca tatatacaca tatatacaca tatatataca catacatatg tacacatata 60

tatacacata tgiatacaca tatatacaca tatatacaca catatataca catatataca 120

cacatatata cacatatata cacatatata cacatatata catatataca catatataca 180

tatatacaca tatatataat atacacacat atatatacac atatatacac acatatatac 240

acatatatac acatatatat acacatatat acacatatat acatatatac acatatatat 300

acatatatac acatatatac atatatacac atatatacat atatacacac atatatacac 360

atacatatac

370

<210> 20

<211> 377

<212> DNA

<213> Homo sapiens

<220>

SEL PCT 012.ST25

<221> misc_binding

<222> (1)..(377)

<223> MAR of human chromosome 1, genomic contig; 12417411 to 12417787

<400> 20

attatatata ataatataa ttatatatt atatafaaat tataataaat acatataatt 60

atatatttat atataaatta tatataataa ataatataa ttacatatat ttataaatta 120

taataaaat atataaattac atatatatt atatagaatta tatataataa ataatataa 180

ttatatatat ttatatgtag attatatata aatatatata atttatatat ataataatat 240

atataattta tatatatatat ataatatat ataatttata tatataatta 300

tatatataat aaatatataa taatatatat aatttatata tataattata tatataataa 360

atatatataa ttatatat 377

<210> 21

<211> 1524

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1524)

<223> MAR of human chromosome 1, genomic contig; 1643307 to 1644830

<400> 21

tataaatata tataaatata taaatatata taaatatata aatatatata aatatatata 60

aatatatataa aatatataaa tatatatataa tatatatataa tatataaaaa cataaaaaata 120

SEL PCT 012.ST25

tatataaata tatataaata tataaaaata tataaatata taaatatata aaaatatata	180
aatataiaaa tatatacata aatatatata aatatatata aatatataaa aatatatata	240
aatatataaa tatatataaa tatatataaa tatatataaa tatataaaaa tatatataaa	300
tatataaata tataaaaata tatataaata tataaatata taaatatata taaatatata	360
aatatataaa taaatataag tatttatgaa tatatatgaa tatataaata tataaaaaat	420
atatataaat atataaatat atataaatat ataaatatat acatatatac atatataaat	480
aaataaatat aagtatttat gaatatatat gaatatataa atatatataaa aatatatata	540
aatatataaa tatatataaa tataaatata taaaatatata taaaatatata tataaatata	600
taaatatata taaatatata aatatatata aatatatata aatatataaa tatatataaa	660
tatatataaa tatataaata tataaatata tataaatata tataaatata taaatatata	720
aatataaata tataaatata tataaatata tataaatata taaatatata taaatatata	780
taaatatata taaatatata taaatatata aatatatata aatatatata taaatatata	840
taaatatata aatatataaa tatataaaaa tatataacaa tatataaata tatataaaaa	900
tatataacaa tatataaata taaatatata taaaatatata taacaatatata taaatatata	960
tatatataaa tatataaata taaatatataaa aatatatata aatatataaa atatatataa	1020
atatataaat gtataaatat atataaaaaat atataacaat atataaatat ataaatatat	1080
aacaatatat aatatataaa aatatataaa caatatataa atataaatat atataaaaaat	1140
atataacaat atataaatat aatatatata ataaatatat aatatataat ataaaaaata	1200
tatataaata tataaatata tatataaata tatataaata tataaatgta taaatatata	1260
taaatatata aatatataaa aatatataaa tatatataaa tatatataaa tatataaata	1320
taaatatata aatatatata aatatataaa tataaatata taaatatata taaatatata	1380
taaataaaca tatataaaga tatataaaga tataaagata tataaatata taaatatata	1440
aagatatata aatatataaa gatatatata tatataaaga tatataaata tataaagata	1500
tataaatata atatataaat atat	1524

SEL PCT 012.ST25

<211> 664

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(664)

<223> MAR of human chromosome 1, genomic contig; 1398763 to 1399426

<400> 22

acacatatat atataaaata tatatatata cacacatatata tataaaatat atatatatat 60

acacatatat ataaaatata tatatacaca catatatata aaatatatat atacacacat 120

atatataaaa tatatatata cacacatatata tataaaatat atatatacac acatatatat 180

aaaatatata tatacacaca tatatatataa atatatatat acacacatat atataaaata 240

tatatataca cacatatata taaaatatat atatacacac atatataata aatatatata 300

tacacacata tatataaaat atatatatat acacatatat aaaatatata tatacacaca 360

tatatataaa atatatatat acatatatat aaaatatata tatacacata tatataaaat 420

atatatacac acatatatat aaaatatata tatacacaca tatatatataa atatatatat 480

acacatatat ataaaatata tatatacaca tatatatataa atatatatat atacacatat 540

atataaaaata tatatacaca catatatata aagtatatat atacacacat atatataaaa 600

tatatatata cacatatata taaaatatat atatacacat atatataaaa tatatatata 660

caca 664

<210> 23

<211> 1428

<212> DNA

SEL PCT 012.ST25

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1428)

<223> MAR of human chromosome 2, genomic contig; 17840365 to 17841792

<400> 23

aaftttat atattatata ttatatatat tatatatatt atatattata tatattatat 60

atattatata ttatatatat tatatatatt atatttatat ataatatata tctaatatat 120

atattagata taatatatat ctaatatata tatattttat atatataata tatctctaata 180

atatatatatt tatatgtata taatatatct ctaatatata tatattttat atgtatatata 240

tatatctcta atatatatat ttttatata taatatatct ctaatatata tattttatat 300

atataatat tatctaatat atataatat tatatttagat atataaaaa tatatatgat 360

atatttatta tatatatatai atataatat taatatatat attatattat atacatatat 420

attatatata atatatatata tatatatatt atatacatta tatattatat atattttata 480

tacaatatat attatatatt ttatatataa tatatatatt atatatttta tatttttata 540

tacaatatat attatatata ttttatatat aatatatatt atatatatatt tatataatat 600

atattatata tatttttatat ataatatata ttatatataat tatatatatat atatattata 660

ataaattata atatttttta tatatatatat atgtatttta tatataatat attataatat 720

atattttata tataatatat tataatatat attttatata taatatattta taatatatat 780

tttatattat aatatattat aatatatat ttatatataa tatattataa tatatatatt 840

atatataata tattataata tatattttat atataatat ttataatat tatattataa 900

tatatatttt atatataata tattatcata tatatatataa atatatatatt tatatatatat 960

atattataat atatatatata taatatatat ttatatata atatattata atatatatat 1020

SEL PCT 012.ST25

tataatata atttatata taatatatta taatatatat ttatatata atatattata 1080
 atatataatt tatatataat atattataat atatatttta tatataatat aatatatatt 1140
 ttatatataa tatattataa tatatatatt atatataata tattataata tatattttat 1200
 atataatata ttataatata tttttatat ataatatatt ataatatata ttttatatat 1260
 aatatattat aatatatatt ttatatataa tatattataa tatatatatt atatataata 1320
 tattataata tatattttat atataatata ttaattaaat ttattaattt attaattatt 1380
 aatatattat atattattaa ttaataatat ataaattatt aatatata 1428

<210> 24

<211> 4624

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(4624)

<223> MAR 1_6 of chromosome 1

<400> 24

ggatcttaaa tctattttat ttattttatt ttcattgtggc caataccctc cacccccttc 60
 ttctgtctct ttcaacttat tgtgggtacc ttgaggctac ctgagacagt aggcttgggt 120
 ggggaagtat gcattctaag tgtaaagttt gatgagcttt gacaaatgtc aaccatgta 180
 ccagaacatt ttcatcacc ataaaatctc ccttgtgtca ctgcccagtc agtgtctatt 240
 ctagtatcca actcctggct ccaagaaacc attgaactgt ttctgtcac tataaattag 300
 atttgtcttt tctagagttt catgtaaatg gaatcataca ctaagtactc ttgtgcctg 360
 gcttctgtc agcataatgt ttttgagaat cattcatgct gctgcatgtt tttagtagtt 420

SEL PCT 012.ST25

catttttta aataggtgaa ttgtaactca ttctgtgaat ataccatatt ctgtcttcca 480
 ttatctggt agtggatctt taggtcggtt ctagtgttg gctattgcaa ataaagctgc 540
 tgtaaataatt aatgcacaag ttcccatgt tcatatgttt catttcactt aggaaaatac 600
 ctaagagagg aatgcacat attaaaaaaa tttaaaaaac tactaagctg ttctccaaaa 660
 tgggtgtaca attttattc ccaagagcaa tatgagtgtt taattgctcc acattctcac 720
 caacacttg tgctgttag ttatttttc attgtttca ttgtatgtc tgtgaggcag 780
 cattgatgtg catgtctcg agtgcacat tagcggtgat gctgagcatc agttcacgtc 840
 ctataggcc gttgtatat ctgcttttg aaatgtctgt tcaaatcttt gcctatttt 900
 aaattgagtt gtgtctgtc tcttaggatt aagtaatgag ttaaaaatat ttctgatata 960
 aatcttcat tataatttc taatgcttc tcatctatag ttattttct catattcttt 1020
 aactgtatct ttgaagagc aaatttact ttgattatg cccaatttat caagtttta 1080
 tatggctctt ttgattatgc ccataatcac attagacttt gctaaccoca agtttgaga 1140
 gatttttct ttatgcttt tatctagaaa ttgttagtt ttaggtttta aaaaagttta 1200
 attatttat ttgagacagg gtattgctc ttacatatac tggagtgcag tgatgcaatc 1260
 atggctcact gcagcccaa cctctgggc tcaagcgggt ctcccatctc agagtctga 1320
 gtactggcc aggtgcatgc cagctcaat gtgttttca ttgcatttc cctgataatt 1380
 attgacgtg agcattttt tcatatatca gttagctatt tgaactctt ctttgagaa 1440
 acatctattc gggcttttg cccatttaa agtcagatgg ttgtttgtc agctattgag 1500
 tigttagt tcttgata ttctggatat taccatcttg tcagatgcac agttgcaaa 1560
 tttttttt ctatttgta ggtgtctct ttctctgtg ttctctcgg tatgcagaag 1620
 tttttagt tgatgtaatt tcattgtct gttttgctt ttgtgcctg tacttttta 1680
 ttctatcca aaaaatcttt atctagatca atgtcacgaa gagttctcc tctgtttct 1740
 tcgagtagtt ttftataatt ttgggtatac atttaagtct ttaatctatt tggaattgat 1800
 ttgtcatat ggtgagagat cagagtctaa ttcatactt ttgatgtgg aaagctagtt 1860
 tttcagcac catttattga agagactgc tctctccaa tgtgtgtct ttgtgcctc 1920

SEL PCT 012.ST25

gtcaaaaatc agttggctgt gcgtaggatt atttctgtgt tctctatttt gttccattgg 1980
tctagtttta gccttaaatt taggtctgca atttttttt tttgtatat ggtgtgaagt 2040
aagagtcaaa gtccattatt ttccatatgg atatgtaatt actccagtac catcattag 2100
ttgaaatgga ctgtccttc tccatggaat tacatgggca tctttgtct gaaaccaatt 2160
atgtatgttt acgtatgtgt atgttatgc atatgttata ggtttaatat atattaatat 2220
atataafata taatatataa atattaatat gtattatata atatatatta atattatata 2280
ttatattact atataaataa tattaafata ttatattaaa atattaataa atatatcata 2340
ttaaatatta taftaattaa atattaataa atataffata ttaatatatt tatatattaa 2400
acctataaca tatgcatata cttatttata tataacatgc atgtacttat ttatatatac 2460
aatatatatt tatatattat ataatatatt atatgtattt atattatata tatcatatat 2520
tatatgtatt tatatattat atatcatata atatatatat ttatattata tatattatat 2580
gatatataat attatataat gtattaatat atattaaacc tatatttata attctggact 2640
cactattttg ttccattggg gtctgtgtgt atctaaccct atgccaataa tgtactatct 2700
taattaccat agctttatag taagctttga aatcagatag tgtattttt atcattgttt 2760
ttaaaataa tagtttatct tttatttga atttgaatc agctagtcat ttctgcaaa 2820
aagctfactg ggattttgct tggaattatg ttacatctgt agcatgtact atccaatatt 2880
ctagccttta tccacatgtg gctattaagg ttfaaattaa tfaaattaaa atttaattaa 2940
ttaaaattaa aacttaataa ttggttcctc atccacacta ccatatgta agtgftcaat 3000
agccacatat ggtcaatgtc ttggaaaagt caatacagta catttccatt attgcagtaa 3060
gttctgtcaa acagcactat cgtagaccga ttaggagaga actgacttaa cagtattgga 3120
tgctccagtc aatgaacatc tttttttt fcatttattt cagtatgtct tgcagtatat 3180
tatagatttc agttfacata tttgcatat attttattaa atgtataacg gtagaagtac 3240
tattattgga tgatgtgttc tatagatgta ttttaggtca agtttgttga tagtgtttgt 3300
taaattctgt atacctcttg attttttat ttactgttc ttgaattac tgagacagga 3360
atgttataic cttactata ttgtgaatt tatcacttc ttcttcagt totgttaact 3420

SEL PCT 012.ST25

tttgcttagg tgccttttaa aatgaaact ttcaatctct gccctttaat tgtagcaatt 3480
 agaccattta cattcaatgt aattatcaat atcagtttat ttaagtciga agttgtgcaa 3540
 ttttctct acctatatta taaatcttc tatatacaaa acacatgcta tgtttctgc 3600
 atatgttta aatgacaccc ggaaagcatt gacactatt ttgctttagg ttatcttca 3660
 aagatgttaa aatgagaaa gaaatattct gcatttatcc atacacttat tatttgcaaa 3720
 ggtttttta aataccttg ttagatttc agttaccaac tigtattcc ttacgttga 3780
 agaacttaca atttctgta ggacaggctc ctgacaacaa attatctcag ctttcttg 3840
 tctaaaaag ttattgcctt tattttaaa atatatcttc actggatatt gaattttagg 3900
 tgataatctt tttttttg ttgacactt aaatatgtct tctaagtcc tcttgcttc 3960
 atagttctg atgagaagtc tactgtatt agtatctct tgtgtgtgc tctctttt 4020
 cctctctgc tattatggct attttttt tttttttt tttaggtcac tgggtgcagc 4080
 aatttaatta tgggtgcct tggatgttt tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 4140
 tgtgtgtgtg tagctgatgt tcttgagct ttagaatctg tgagttgta gtttcatca 4200
 attattttt ctttcatc ctttattta ctcatgttcg tgtttatt tatatttta 4260
 agaatttgt gcgtattgt aataactgt taaatgtcat ttgtgaattc cattgcctct 4320
 aggtaggatt ctattgacag atatttttc cctgacgaga ggtcatactt tcttattct 4380
 tcatgtatct agtggtttt ggtgaatac tggatatttt gaatttatg ggagtgtga 4440
 attctacaat attcctaaa aatgtgttg atttgttt agcagatagc tatcttactt 4500
 gaagatcaat ticatatatt ttgatgtca ttttctatt tattaaagaa taggtccatg 4560
 gtagagtta ctgatatcaa ccttctggg gtctctaata aatgcaacat attcaataag 4620
 atcc 4624

<210> 25

<211> 3616

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(3616)

<223> MAR 1_68 of chromosome 1

<400> 25

```

gactctagat tataccaacc tcataaaata agagcatata taaaagcaaa tgctcttate 60
ttgcagatcc ctgaactgag gaggcaagat cagtttgga gttgaagcag ctggaatctg 120
caattcagag aatctaagaa aagacaaccc tgaagagaga gaccagaaaa cctagcagga 180
gtttctocaa acattcaagg ctgagggata aatgttacat gcacaggggtg agcctccaga 240
ggctgtcca itagcaactg ctacagtttc attatctcag ggatcacaga ttgtgctacc 300
tattgcttac catctgaaaa cagttgcttc ctatatttca tccagtttaa tatttattta 360
aaccaagaag gtaaatctgg caccagctat tccgttgtga gtggatgtga aagtaccaat 420
tccattctgt ttactatta actatccttt gccctaatat gtatcagtag gtggcttgtt 480
gctaggaaat attaaatgaa tggcatgttt cataggttgt gtttaaagtt gtttttgag 540
ttaaattctt cttaataat actttctgat gtcaaaaaca cttagaagtc atggtgttga 600
acatctatat aggggtggat ctaaaatagc ttcttaacct ttctaacca ctgttttgtt 660
ttgttgttt ttaactaagc atccagtttg ggaaattctg aattagggga atcataaaag 720
gtttcaittt agctgggcca cataaggaaa gtaagatata aaattgtaa aatcgtaag 780
aacttctatc ccatctgaag tgtgggttag gtgcctcttc tctgtctcc ctaaacatcc 840
tattttatct gtatatatat atattcttcc aaatatccat gcattgggaaa aaaaatctga 900
tcataaaaaat attttaggct gggagtgggt gctcacgcct gtaatcccag cactttggga 960
ggctgagggtg ggcggtatcat gaggicaaga gatcgagacc atctgacca atatggtgaa 1020
accccatctc tactaaagat acaaaactat tagctggacg tgggtggcacg tgctgtagt 1080

```

SEL PCT 012.ST25

cccagctact cgggaggctg aggcaggaga acggcttgaa cccaggaggt ggagggtgca 1140
 gtgagctgag atcgcgccac tgcactccag cctggggcgac agagcgagac tctgtctcaa 1200
 aaaaaaata tatatatata tatatatata catatatata taaaatatat atatatacac 1260
 acatatatat ataaaatata tatatatata cacatatata taaaatatat atatatacac 1320
 acatatatat aaaatatata tatacacaca tatatataaa atatatatat acacacatat 1380
 atataaaata tatatatata cacatatata taaaatatat atatacacac atatataata 1440
 aatatatata tacacacata tatataaaat atatatatat acacatatat ataaaatata 1500
 tatatacaca catatatata aaatatatat atacacacat atatataaaa tatatatata 1560
 cacacatata tataaaatat atatatacac acatatataa aatatatata tacacacata 1620
 tataaaatat atatatacac atatataata aatatatata tacacatata tataaaatat 1680
 atatacacac atatataata aatatatata tacacacata tatataaaat atatatatat 1740
 acatatatat aaaatatata tatacacata tatataaaat atatatatat acacatatat 1800
 ataaaatata tatacacaca tatatataaa gtatatatat acacacatat atataaaata 1860
 tatatatata catatatata aaatatatat atacacatat atataaaata tatatatata 1920
 catatatata aaaatatata tatatatatt taaaatatatt ccaattgtct cactttgtgg 1980
 atgagaaaaa gaagtagtta gaggtcaagt aactggcct acatctttc tcaagattgt 2040
 aaactcctag tgagcaataa ccacatcttc attttcttgg tataaaacaa gaaagttag 2100
 catgaaaaag gtactcaatt acaaattgtt tggattgaat tgaagaccct tggaagggga 2160
 tttgtacct gaggatctct ttctttggc catattgttc aatggacaaa atttagcctt 2220
 cgaaggcagg ccgatttgag gtaatacta cctttaccac ttgatagcta tgtgaccttg 2280
 gccatgtggt ttcaacagtc tgaacctcat ttctctgtg tatgtgtggt cctccttaca 2340
 agtttgtgaa aaatgtgaag tccttagcca tgatagccca atataacagg cttaatgata 2400
 ataggtttat gtcttttcc ttatatattc cagataagca ctgtccaagt ttgaggtgtt 2460
 ttgaggtctc gccgtattg gattgtttga gtttatgcta ttctttgaat tctttgagct 2520
 gttctgaagc agtgtatcat gaacaaaaac atccccagtt cagtccaaac ccttggttac 2580

SEL PCT 012.ST25

atatcattct tatgccaatgt tataaccagt ttgagagtgt tccctctgtt attgcattta 2640
 agtttcagcc tcacacagaa attcagcagc caatttctaa gccctaagca taaaatctgg 2700
 ggfggggggg ggggatggcc tgaagagcag cattatgaat agcaccatta taattaatga 2760
 tctctcagga agatttaca tcacaggttag cagataaaac aaatagtact gcttctgcac 2820
 ttccctcct tttattcgt atgaaatfff atgggaaatc agtccagfca aaaatgtaag 2880
 ctcttaatct tcccagaaa tctaccta fttgatgaat acttgaggg aatgaattag 2940
 agcattttt tctttatag tctacttgc atttacgaag tgaggacggg agcttaggct 3000
 gccggccaa ctgatgagaa ggtagagggc atttttagag acctctgttg totttcttc 3060
 atgttcattt tcacaaggc aagtaatttc caacaaatca gtgtcttcat tagtaataag 3120
 attattaaca acaataatag tcatagtaac tattcagtga gagtccatta tatatcaggc 3180
 attctacaag gtactttata tacatctgag taaacctcac acaattctac agggagggtat 3240
 ttctatccc atttaacaaa taaggaaacg aagccaagt aaattaactt gcccaaggtc 3300
 acacagatag tacctggcag aacaggaatt taaacctaaa ttgtccaac tccaaaagca 3360
 gccctctatt tgtataaat gctgcctctc attatcacat attttattat taacaacaac 3420
 aaacatacca attagcttaa gatacaatac aaccagataa tcatgatgac aacagtaatt 3480
 gttatactat tataataaaa tagatgttt gtatgttact ataacttga attgaatag 3540
 aaatttgcatt tictgaaagc atgttctgt catctaatat gattctgtat ctattaaaaat 3600
 agtactacat ctagag 3616

<210> 26

<211> 4660

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

SEL PCT 012.ST25

<222> (1)..(4660)

<223> MAR 1_42 of chromosome 1

<400> 26

```

gatccctga ggtcagtagt ttaagaccag cctgaccaac atggtgaaac ccatctctac   60
taaaaataca aaaattagcc aggcgtggtg gcgggggcct gtaaccccag ctactcagga   120
ggctgaggca caagaatctc ttgaacccgg gaggcggagg ttgcagttag ctgagattgt   180
gtcactgcac tccagcctgg gcaacagtcg cagactctgc cttaaaaaaa aaaaaaaaaa   240
aaaaaaggcc gggcgcggtg gctgacgcct gtaatcccag cactttggga ggccgaggcg   300
gggtgatcat gaggtcagga gatcgagacc acagtgaaac cccgtctcaa ctaaaaatag   360
aaaaaattag ccgggcgcgg tggggggcgc ttgtagtccc agctactcag gaggctgagg   420
caggagaatg gcgtgaacct gggaggcgga gcttcagtg agccgagatg gcaccactgc   480
actccagcct gggcgaaaga gtgagactcc gtctcaaaaa aaaaaaaaaa ttagctgggt   540
atggtggtgc gtgcctgtaa tccagctac tgggagggt gaggcaggag aatcccttga   600
acctgggagg cggagggtgc agtgatctgc catcctgtca ctgcatcact acactccagc   660
ctgggtgaca gagcgagact ctgtctcaaa aaaaaaaaaa aaaaaaaaag ctgggtgtgg   720
tggtatgcac cagcttagt cccagctact tgggaggctg agttgggggg attgcctgag   780
ccaggagggt cgaggcttca gggagccatg attatgccac tgcactccag cctgggccac   840
agagtgaac cttctgtcaa aaacaaaaaa acaaaaaaac acagtgtgtt agatcttgct   900
agacttgggt atataattaa gaggccatta tgggcagaac tgtgccccct tccaaaattc   960
atatataaat atatataaat atatataaat atataaatat atataaatat ataaatatat  1020
ataaatatat aaatatatat aaatatataa atatataata atatataata atatataaaa  1080
atatataaat atatataaat atatataaat atataaaaac ataaaaatat atataaatat  1140
atataaatat ataaaaatat ataaatatat aaatatataa aaatatataa atatataaat  1200
atatacataa atatataata atatataata atatataaaa atatataata atatataaat  1260

```

SEL PCT 012.ST25

atatataaat atatataaat atatataaat atataaaaat atatataaat atataaatat 1320
 ataaaaatat atataaatat ataaatatat aaatatatat aaatatataa atatataaat 1380
 aaatataagt atitatgaat atatatgaat atataaatat ataaaaaata tatataaata 1440
 tataaatata tataaatata taaatatata catatataca tatataaata aataaatata 1500
 agtatttatg aatatatatg aatatataaa tatataaaaa atatatataa atatataaat 1560
 atatataaat ataaatatat aaaaatatat aaaaatatat ataaatatat aaatatatat 1620
 aaatatataa atatatataa atatatataa atatataaat atatataaat atatataaat 1680
 atataaatat ataaatatat ataaatatat ataaatatat aaatatataa atataaatat 1740
 ataaatatat ataaatatat ataaatatat aaatatatat aaatatatat aaatatatat 1800
 aaatatatat aaatatataa atatatataa atatatatat aaatatatat aaatatataa 1860
 atatataaat atataaaaat atataacaat atataaatat atataaaaat atataacaat 1920
 atataaatat aaatatatat aaaaatatat aacaatatat aaatataaat atatataaat 1980
 atataaatat aaatatataaa aatatatata aatatataaa tatatatataa tatataaatg 2040
 tataaatata tataaaaaata tataacaata tataaatata taaatatata acaatatata 2100
 aatatataaa aatatataac aatatataaa tataaatata tataaaaaata tataacaata 2160
 tataaatata aatatatata taaatatata aatataaata taaaaaatat atataaatat 2220
 ataaatatat atataaatat atataaatat ataaatgtat aaatatatat aaatatataa 2280
 atatatataaa atatataaat atatataaat atatataaat atataaatat aaatatataa 2340
 atatatataa atatataaat ataaatatat aaacatatat aaatatatat aaataaacat 2400
 atataaagat atataaagat ataaagatat ataaatatat aaatatataa agatatataa 2460
 atatataaag atatataaat atataaagat atataaatat ataaagatat ataaatatataa 2520
 tatataaata tataaagata tataaatata atataaaaat atataaatat atattaaaaa 2580
 tatatacata taaatatatg tatattttt tgagatgggg tctgctcag ccacccacgc 2640
 tggagtgcag tggcacgagc tcggctcact gcaaccactg tctctgggt ccaagcaatt 2700
 ctgtctcagc ctoccaaagta gctgggatta caggcacctg ccatcatgcc cggctaattt 2760

SEL PCT 012.ST25

ttgtatttta gtagagatgg agtttcacca tgttgccag gttggtctcg aattcctgac 2820
 ctacaggtgat ctgccggcct cggcctccca gtgctgggat tacaggcatg agtcaccacg 2880
 cccggcccta tatatatttt tgagacaagc tctgtgtctc ccaggctgga gtgcagcagc 2940
 atgatcatga ctactgtag cctagacctc cagggctcaa gtgattctcc cacctcagcc 3000
 tccaagtag ctgggattac aggcattgcac caccacacc agctaatttt tgttttgttt 3060
 tgttttgag acagaatctc tctctgtcac ccaggctgga gtgcagtggg gtgatctcag 3120
 ctacgtgcaa cctccacctc ctgggttcaa gtgattctca tgctcagcc tctgagtag 3180
 ctgggactac aggcgtgagc caccacgccc tgataaattt tgtatttttt ttccagatg 3240
 gagtctcact ctgtcatact caggctggag tgcagtggcg tgattttgtt ttattgcaac 3300
 ctctgtctcc tgggttcaag cgattctcct gcctcagcct ccagagtagc tgggattaca 3360
 ggcgctgcc accatgccca cctagctaac tttttttt ttttttga gatagagtct 3420
 cactctgtca ccaggctgg agtgcaatgg ggcgatattg gtcactaca acctccacct 3480
 ccagggttca agcgattctc ctgcctcagc ctctgagta gctgggatta cagggtgggtg 3540
 ccaccacgcc agactaatat ttgtattatt agtagagacg gggtttcacc acattgggtca 3600
 ggctgggttc gaactcctgg cctcagggtga tctgcctgcc tcggcctccc aaagtgtctg 3660
 gattacaggc atgagccact gcggctggcc caatttttg attttttg tagagacggg 3720
 gggttacta tgcttcccag gctgggtctca aactcctgga ctcaagcgat ctgcctgtct 3780
 cagcctccca aagtgcaggg attacagtca tgagccacca ctgcacggcc ccaaaattta 3840
 ttattttat tattattatt attttttaga tggagtctcc ttctgtgcc agattggaat 3900
 gcagtgccac gatctcagct cactgcaacc tccccctct gggatcaagt gattctttt 3960
 ttttaagac tctgtctcaa aaaaaaagaa aaaaaaaaaa aatatatata tatatatata 4020
 tatacacgaa ttttgggcca ggcacagtgg cttatgctg taatcccagc actttgggag 4080
 ggccgagggtg ggtggatcac aaggtcagga gttgagacc agcctggcca atatggtgaa 4140
 acctgtctc tactaaaaaa tacaaaaatt agctgggctg ggtggcacga gcctgtaac 4200
 ctggctactc tggaggctaa ggcaggagaa tcgctgaac cggggaggca gaggttgcag 4260

SEL PCT 012.ST25

tgagccagga tcgcatcact gcactccagc ctgggtaaca gagcaagact ctgtctcaaa 4320
 aaacaaacaa aacaaaacaa aacaaaataa ataacgggtgc aaaattgaat atgccttttt 4380
 gactctctaa atgcctcaga tccatttacc ctggggattt gtcccttcta gccccaccac 4440
 catctccct ctggaagact gctgacctat aaggataaag accagactct tgagcaggca 4500
 cttaggggtct tctgcccac cctatcccc aactccccct cagtaatttt ggctactagt 4560
 attctccac atctgaggct atcgtgggtc tcccttcagt ggtcatgaag gacaagggtg 4620
 gagaagttg cctctgtgag tctgatgagg gattgggtgg 4660

<210> 27

<211> 3354

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(3354)

<223> MAR X_S29 of chromosome X

<400> 27

gatcccttia taaaaccaca atataatgga gtgctataat ttcaaacagt gtttggctctg 60
 ctggcagagt ggtcattcta acagcagtea cagtagagta gaaataagac tgcagtatat 120
 ctaaggcaaa aagctgaggt ttcaggagct tgaaggtaaa gaggaagaaa gaaatgggaa 180
 tgggaattgg aaagacaaat atcgttaaga gaaaattgct tttaggagag gggaaagaat 240
 ctatgtgtac ttaagactat ggaatcaatc ccatttaagc tgggaaacta gtttcatata 300
 taactaataa attttattta cagaatatct atttacctga tctaggcttc aagccaaagg 360
 gactgtgtga aaaaccatca gttctgtcat attcctaaaa aaaaattaaa aagttaaaaa 420

SEL PCT 012.ST25

taaataaata ataaaacttc ttttcttca aaataatcaa ggtgcttatt cacatccatt 480
 ccaatttggg gaaatactta ttttctatg attagcgaag agaaaagtaa ctgcatcttc 540
 aattcaagtt gatacatgtc actttaaga ggtcaactaa tatttgctag ttgagctaac 600
 catataggct ttaaatactt tcatagtaga aagaaaatga aaatcattag tgaactgtat 660
 aaaatagatc atacttttg aaagaatcag actgaagttt ccgaaaaaaa gaagtaagct 720
 tcaatgaaaa ggtaagtga ttagcattt actcagcacc tactatggac ttaacaccta 780
 acagtagata atcgaaggc aaacatattt gtatagggac tgcagaatga tagatgataa 840
 atatcatctc tctatttga atgaatatct tttcaaatct ttcacacaca gtggtttgct 900
 atggaaagat ttgtagtaca ttaaacaat ctgaagatgg agttagaaag cttaggctat 960
 gtttgagca caacatataa tttctctgtg attgtttct catctttcaa atgaggttac 1020
 tgtgaagatt aaatgagata actaaatgat gataaaataa tgtaatttta gcagcacctt 1080
 atttaacttg tgcaacaact ctgtgaagtg agtagggctc agcttcagtc acttctctgc 1140
 catttattaa ctaagatagt ttggaaagtt acccatctct tcagctgtaa aatgatgagg 1200
 atcataccia tttatgggg ctgcttttag gtacaaatat acaggcaagc actttgttaa 1260
 tactaaagca ttacaccaat tagttttact cttttccatt cacacatgaa attaatgtaa 1320
 tcagaattct gtagattacc taaattctct gttacacgt gatatgcagt tcagggtaaa 1380
 tgtcagttga gttaccaaag cacatacata ctaccaccc tatccaaatc tacaagcctc 1440
 ccagtttgc ttactattt tggftaaatt aatatgaatt cctagatgaa aatttcactg 1500
 atccaaatga aataaaaaat atattacaaa actcacacct gtaattctca cattttggga 1560
 ggccaaggca ggtagatcac ttgaggccag gagttcaaga ccagcctgat caacatgggt 1620
 aaaccctgtc tctactaaaa atacaaaaat tagccaggtg tgggtggcatg tgctgtagt 1680
 cctacctact cgggaggctg aggcacaaga atcgcttgaa tgtgggaggt ggagggtgca 1740
 gtgacctgag atcgtgccac tgcactccag cctaggcaac agagtgagat catgtgtcat 1800
 atatatatat atatatatat atatatatat atatatatac acacacacac acatatatat 1860
 atacacatat atatacgtat atatatatat gtatatatat acatatatat acatatatat 1920

SEL PCT 012.ST25

atatacgtat atatacgt atatacgtat caatgtaaat tatttgggaa atttggtatg 1980
 aatagtcttc cctgtgaaca cagatcataa aatcatatat caagcagaca aataagtagt 2040
 agtcacttat algcttatac ttgtaactta aagtaaaaga attacaaaag catatgacaa 2100
 agactaattt taagatatcc taatttaaatt tgtttctaa aagtggtat accattttac 2160
 ctatcatatg aataatttag aaacatgttt ataaaattaa tgcctaaatc cattcaaaag 2220
 ttgtgaatg cagatcacc acaacaacaa agaactctag cctattaaaa aagcaacacc 2280
 acctacatat aatgaaatat tagcagcatc tatgtaacca aagttacaca gtgaatttg 2340
 gccatccaac actttgagca aagtggtgaa ttcatcaaat gaatgtgtaa tcattttact 2400
 actaatgcca atacacttta aggtaatctt aagtagaaga gatagagttt agaattttt 2460
 aaatttatct ctgttgtaa agcaatagac ttgaataaat aaattagaag aatcagtcac 2520
 tcaagccacc agagtattg atcgagattt cacaaactct aactttctga taccattct 2580
 cccaaaaacg tgaacctcc tgcgatagg aacaaccac tgcagggatg ttctctggtg 2640
 aaaaaggaaa ttcttttgc attggtttca gacctactg gttacaagaa aaaccaaagg 2700
 ccattgcaca atgtgaagt actttttca aatttaaaat ttgaaagttg ttcttaaaat 2760
 ctatcattta tttaaaata cggatgaatg agaaagcata gatttgataa agtgaattct 2820
 ttctgcaat ctacagacac ttcaaaaat cactacagac actacagaca ctacagaaaa 2880
 tcataaataa acaagtgtc gttcaatat tttaacaaa aaatggcatt ctagaattt 2940
 ttataggct agaaggttg tacaaactaa tctgccacgg atttlaaaat atgagtgaat 3000
 aaattatatt gcaaaaaaaaa tcaggttaca gagaactggc aaggaagact ctatgtaaa 3060
 acacagaaaa catacaaaac gtattttta gacaaataaa aacagaactt gtacctcaga 3120
 tgatactgga gattgtgtg acatattagc attatcactg tcttgctaaa acataaaaaat 3180
 aaaaagatgg aagatgaaat facaatacaa atgatgattt aaacatataa aaggaaaata 3240
 aaaattgttc tgaccaacta ctaaaggaag acctactaaa gatatgcoat ccagcacatt 3300
 gccactctac atgtggtctg taaaccagca gcatagggat cctctagcta gagt 3354

SEL PCT 012.ST25

<211> 677

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(677)

<223> MAR of chromosome 1 genomic contig; 12803267..12803943

<400> 28

```

ttatatagta tatataatag tatatatat atagtataca taatagtata tattatatag   60
tatacataat agtatatatt ataatatata taattgtata tatcatatag tatacattat   120
aglatatatc atatagtata cattatagta tatatcatat agtatacatt atatagtata   180
tatcatatag tatacattat agtatatatc atatagtata cattatagta tatatcatat   240
agtatacgtat atagtatata tcatatagta tacgtaatag tatatatcat atagtatacg   300
taatagtata tatcatatag tatacgtaat agtatatatc atatagtata cgtaatagta   360
tatatcatat agtatacgtat atagtatata tcatatagta tacgtaatag tatatatcat   420
atagtatacg taatagtata tatcatatag tatacgtaat agtatatatc atatagtata   480
tattatatag tatatatcat atagtatata ttatatagta tatatcatat agtatatatt   540
atatagtata tatcatatag tatatatatt atagtatata tcatatagta tatataatag   600
tatatatcat atagtatata taatagtata tatcatatag tatatatact atactatatt   660
atatatagta tacataa                                     677
    
```

<210> 29

<211> 332

<212> DNA

SEL PCT 012.ST25

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(332)

<223> MAR of chromosome 1 genomic contig; 13079684..13080015

<400> 29

ttaattatat tatatatatt atataattat atattaatat atattaatta tattatatat 60

attatataat tatatatataa tatatatataa ttatattata tatattatat aattatatat 120

taatatatat taattatat atatatatta tataattata tattaatata tattaattat 180

attatatata ttatatatta taattatata ttatataatt ataatatata tgttaatata 240

atatatatata ttaatatata attaaaacta ttttaattata tgtatattat atataatatg 300

tattatttaa ataataaata tattatttat at 332

<210> 30

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(479)

<223> MAR of chromosome 1 genomic contig; 15682296..15682774

<400> 30

SEL PCT 012.ST25

acaagtacat atatatatag tatatatata caagtacata tatatatagt atatatatat 60
acaagtacat atatatatagta tatatatata tacaagtaca tatatatagt atatatatat 120
acaagtacat atatatatagta tatatatata caagtacata tatatatagt atatatatat 180
acaagtacat atatatatagta tatatatata caagtacata tatatatagt atatatatat 240
acaagtacat atatatatagta tatatatata caagtacata tatatatagt atatatatat 300
acaagtacat atatatatag tatatatata tacaagtaca tatatatata gtatatatat 360
atacaagtac atatatatag tatatatata tatatacaag tacatatata tagtgtatat 420
atatatatac aagtacatat atatacttgt attagtatat atatatatat atacaagta 479

<210> 31

<211> 531

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(531)

<223> MAr of chromosome 1 genomic contig; 15694611..15695141

<400> 31

tataatatat ataatacata atagatatat tatattatat aatagatatata taattataaa 60
cataataata tataatgaat ataataataa ataaatataa taaaatatat aatatatcta 120
ttatgtatta tatattatat atgtttatat ataataaat tatatatgtt tatatataat 180
ataattatat atgtttatat ataataaat tatatatatt atattataga tataatatat 240
aatatactat atattataga tataatatat aatatactat atattataga tataatatat 300
aatatactat atattataga tataatatat aatatactat atattataga tataatatat 360

SEL PCT 012.ST25

aatatactat atattataga tataatata atatatatt atatattata gatataatat 420

ataatatatt atatattata tctatatata atatattgta tattatatat aatatattgt 480

atattatata taatatattg tatattatat ataatatatt gtatattata t 531

<210> 32

<211> 378

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(378)

<223> MAR of chromosome 1 genomic contig; 886276..886653

<400> 32

ttatattata tatcttaccat aaattatata tatatattac ataaattata tacaatataa 60

attatataca atataattta tatataaaat ataaattata taaataattt atatataaaa 120

tataaattat ataaataatt tatatataaa atataaatta tgtataaaat ttatatataa 180

aatataaatt gtgtataaaa ttatatataa aatataaatt gtgtataaaa ttatatata 240

aaatataaat tatatataat ttatatatta taatataaat tatatataat atatatcata 300

aaatataaat tatatataat atatatcata agatataaat tatatataat atatatcata 360

agatataaaa tatataat 378

<210> 33

<211> 595

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(595)

<223> MAR of chromosome 1 genomic contig; 3326732..3327326

<400> 33

aaaatatata aatatatata aaaatatata aaaatatata aatatatata aaaatatata 60

aatatatata aatatatata aaaatatata aatatatata aatatatata aaaatatata 120

atatatataa aatatatata aatatatata aatatatata aaaatatataa tatatatataa 180

aatafaaata tatataaata tatataaaaa tataaatata tataaatata tataaatata 240

taaaatatata taaaatatata taaaatatata aatatatata aatatatata aatatatata 300

aatatataaa tatataaaaa tatatatataa tatataaata tatataaata tataaatata 360

taaaatatata tataaatata taaaatatata taaaatatata taaaatatata tataaatata 420

tataaatata tatatatata aatatatata aatatatata taaaatatata taaaatatata 480

tatatatata taaaatatata taaaatatata taaaatatata tataaatata tataaatata 540

tataaatata tatataaata tatataaata tatatatataa tatatatataa tatat 595

<210> 34

<211> 738

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(738)

SEL PCT 012.ST25

<223> MAR of chromosome 1 genomic contig; 4485716..4486453

<400> 34

```

ataatagata atatatatta tatgatagat atataatata ttatataata tataatatat   60
tatatatcta tcatataata tatataatat ataatatatt atatatctat catataatat   120
aatatatata atatatataa tatatcatat tatattgtat ataatatata tcatattata   180
ttgtatataa tatatatcat attatattgt atataatata tatcatatta tattgtatat   240
aatatatatc atattatatt gtatataata tatatcatat tatattgtat ataatatata   300
tcatattata ttgtatataa tatatatcat attatattgt atataatata tatcatatta   360
tattgtatat aatatataatc atattatatt gtatataata tatatcatat tatattgtat   420
ataatatata tcatattata ttgtatataa tatatatcat attatattgt atataatata   480
tatcatatta tattgtatat aatatataatc atatatattc tattatattg tatataatat   540
atattatata ttatctatta tattgtatat aatatatatt atatatattc tattatattg   600
tatataatat atattatata ttatctatta tattgtatat aatatataat aaatatagta   660
tatataatag ataatatata gtatatatga tatattatat atactatata ttatatatca   720
tatatactat atactata                                     738

```

<210> 35

<211> 386

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(386)

<223> MAR of chromosome 1 genomic contig; 5423067..5423452

SEL PCT 012.ST25

<400> 35

taaaatatata aaaatatata taaaaatata aaaatatata tataaatata taaaaatatt 60

tatataaata tataaatata taaatatata ttatatataa tatataaata tataaatata 120

taaaatatata ttatatataa tatataaata tatatttata taaatatata aatatatata 180

aaatatataa atatatattt atataaatat ataaatatat ataaaaatata taaatatata 240

tattttatat aaatatataa atatatataa aatatataaa tatatatatt ttatataaat 300

atataaatat atataaata tataaatata tatattttat atatttatat atataaatac 360

atatatttca tatatcacat atatga 386

<210> 36

<211> 584

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(584)

<223> MAR of chromosome 1 genomic contig; 5805559..5806142

<400> 36

taaaatattt taaaatatat atattttata atatatattt tatattataa tgtgtacata 60

atatatatata taatatataa tatataatac tgtatattat attatatata ttatatata 120

tattattata tattatatata tatataaatat aatatatatt ataatatatt atattatata 180

tattataatg tattataata tatattatat tatatattat aatatatatt atattatata 240

ttatatata tattatatata tatattataa tatatattat attatattat atattatata 300

SEL PCT 012.ST25

atacatatta taatacatat tatataatat attataatat gtattataat acatattata 360
 taatatatta taatatatta tatataataa tatattataa tacatattat atataatata 420
 tattatgtat attatatata atatatatta caatgtatat tatgtatatt atatatatta 480
 tatatcatat aatatatatt atataataa tgatatataa tatatattat ataatatatt 540
 atatgatata tataatatgt attacatgta atatatatca taat 584

<210> 37

<211> 345

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(345)

<223> MAR of chromosome 1 genomic contig; 10802644..10802988

<400> 37

tgatatata tactatatat atactatata tatagtgtat atatatacta tatatatact 60
 atatatatag tgatatata tactatatat atagtatata gtatatatag taatatatat 120
 atatagtata tatatacact atatatagta tatatagtat atatatattg tgtatatagt 180
 atatatatag tgatatata gtatatatat attgtatata tagtatatat attgtgtata 240
 tatagtatat atatagtata tatagtatat atagtatata tatagtatat atatactata 300
 tatatagtat atatatattg tatatatata ctatatatat agtat 345

<210> 38

<211> 474

<212> DNA

SEL PCT 012.ST25

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(474)

<223> MAR of chromosome 1 genomic contig; 13496468..13496941

<400> 38

atattatata taatataatt ataictataa ttatatatta tatataatat aattatatat 60

ctataattat atattatata taatatatat tatatataat atataattat atataattta 120

tataatataa tatataatat ataattatat ataattatat aatataatat ataatatata 180

attatataata attatataa tataatatat aatatataat tatatatatt tatataatat 240

aattatatat aatatataat tatatataat ttatataata taattatata taatatataa 300

ttatatataa tttatataat ataattatat ataattatat attatataata attatataa 360

tataattata tataatatat aattatatat aatatataat tatatataat tatatataat 420

atataattat atataattta tataatataa ttatatatta tatatatatt atat 474

<210> 39

<211> 483

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(483)

<223> MAR of chromosome 1 genomic contig; 2509163..2509645

SEL PCT 012.ST25

<400> 39

```
caaaatacat aatatataat agtattatat aatagtatgt atagtataa tatatagtat   60
aattacaata tatgatatgg ttatatatt atatatagta taatataata taacataata   120
ctattataat atataaacta tataatatat actattataa tatatgaact attataatat   180
ataaactata tataatatat aatatgtact attataatat ataaactatt ataataaat   240
atataaacta ttataatata taaactatta taatatatat aatactatgt atacatatat   300
tacattatgt acatactaca ttatgtatta tgtatgtata tatacacaaa atacataata   360
tataatagta ttataataa gtatatatag ttataatata tagtataatt acaatatata   420
atatgggtta tataattatat atagtataat acaatataac ataatactat tatatataaa   480
cta
```

483

<210> 40

<211> 641

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(641)

<223> MAR of chromosome 1 genomic contig; 2776349..2776989

<400> 40

```
tgttatatat atataacata gatattatat atacatgtta tatatataac atagatatta   60
tatatacatg ttatatatat aacatagata ttatatatat aacatagata ttatatatac   120
atgttatata taacatagat attatatata catgttatat ataacagata ttatatatac   180
```

SEL PCT 012.ST25

atgttatata taacatagat attatataat tatgttatata ataacataga tattatata 240
 gtttatataa tatataacat atgtttaaca tatataatat ataacatgtt tatataatat 300
 ataacataat tatatgttat atatgatata aaacatatat attatatacg ttatatgtaa 360
 tatataacat atattgtata cgttatatgt aatatataac atatatgtta tacgttatat 420
 gtaatatata acatatattg tatacgttat atgtaatatata taacatatat tgcatacgtt 480
 atattgtaata tataacatat attgtatacg ttatatgtaa tatgtaacat atattgtata 540
 cgttatatgt aataigtaat atataatata tataacatgt atatatataa tatatgtata 600
 taacatatat ataacatatata taacatatat gttatatatt a 641

<210> 41

<211> 745

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(745)

<223> MAR of chromosome 1 genomic contig; 2858703..2859447

<400> 41

atatttatat atgtaataat atataatata ttatatgta ttgtatatg taataatata 60
 tatataataa aatatgtaat aatatataat atatttatat ataaatatat tatattatat 120
 atatatatt atatttataa tataatatat atttatatta tatattataa atatatatta 180
 tataatatat attataaata tatattatat aatatatatt ataaatatat attatatatt 240
 atattataaa tatatattat ataatatata ttataaatat atatttatata atatatatta 300
 taaatatata ttatatatt aatatatatt ttgtatatatt atatatatta tattataaat 360

SEL PCT 012.ST25

attattatat ttataatata ttatatatt tatataaat atagatata tattataaat 420
 atatcttata aatatatata ttatatata tatattataa atatataaat ataaatatat 480
 aatataatat aatataatat aataaatata atatataata tatataatat ataataaata 540
 taataaatat aaatatatca tataaatata aatataaata taaatatatc atataaatat 600
 atatatttat atgatataatt atagtatata taaatatatt tatatatat aaaatatffa 660
 tataatatat aattataata ttttatata tataaatfaa ctaatatata taaactaata 720
 taatatataa tgtaataata tagta 745

<210> 42

<211> 307

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(307)

<223> MAR of chromosome 1 genomic contig; 945522..945828

<400> 42

catatataat atatattacc tatgttatat aggtcatata taacataaat atattacata 60
 tatgtaatat atattaaata taaatatata acatatatgt gtaactatat atgtaaatat 120
 gtacatatac atalatgtaa atatataata tatattfaca ttatattata faatatatat 180
 ttacattata tatttatata tacattatat atattfacat tataaatatt tatataatat 240
 atattfacat tatattacat tatataaaat acaatatatt acattataat acattataac 300
 agataaaa 307

<210> 43

SEL PCT 012.ST25

<211> 357

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(357)

<223> MAR of chromosome 1 genomic contig; 3402743..3403099

<400> 43

aatattatat taaatataat atattaatat ttaatatatt taatataata ttaaataaat 60

atattataaa taaattataa tatataaata tatattatgt atttatgtat aatatataaa 120

aattatatat aatatatata tttttataaa tatataaata tataataaat aaatatatta 180

aataaataat aatatatttaa atattaatat attaaatat attatattaaa tataatatgt 240

aatatgaaat atattaaata ttatatatta aatataatat ataattgtgaa atatattaaa 300

tattatatat taaatataat atataatatg aaatatatta aatattatat attaaat 357

<210> 44

<211> 323

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(323)

<223> MAR of chromosome 1 genomic contig; 3485830..3486152

SEL PCT 012.ST25

<400> 44
 atattatag actatatatt tatatattha gtgtattgt atactatata ttatatagt 60
 tagtatatt gtatactata ttttatata tttagtatat ttgtatacta tatatttata 120
 tattagaat attgtatac tatatattha tatatttagt atatttgtat actatatatt 180
 tagtatatt gtatactata ttttatata tttagtatat ttgtatacta tatatttata 240
 tatttagtat atttatatac tatatactta tatatttagt atatttatat actatafact 300
 tatatattha gtatattat ata 323

<210> 45

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(498)

<223> MAR of chromosome 1 genomic contig; 3548336..3548833

<400> 45
 aattattact atattgttaa tataattatt atataatata atataattat atcaactatta 60
 ttatattata gtattaatat aatagtgtat aacatttaata taatatagta ttaatatat 120
 agcgtataac attaatataa tatagtatta atataatagc gtataacatt aatataatat 180
 agtattaata taatagtgtat tattaatata atatagtatt aatatataat attaatataa 240
 tatatcaata taatagtata taatataata taatataatca atataatagt atataatata 300
 atataatata tcaatataat agtatataat ataataatata atataatata aatagtatat 360

SEL PCT 012.ST25

aatattaata taatataata tcaatataat agtatataat attaatatat taatataata 420
 gtatataata ttaatgtaat ataataattaa cataatgtat ataataatat aatagtatat 480
 aatactaata taatataa 498

<210> 46

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(400)

<223> MAr of chromosome 1 genomic contig; 4595109..4595508

<400> 46

aaatatatta tattatatat tatatattat tcaatataact ataatatata ttatatatgt 60
 ttaatacaat atataatat tacatatatt cccatttatt tatataacat atatttatatg 120
 atatttatata ttactccata taatataata tattatacat aatatattac tcagtataat 180
 acataatata tataatatat tactcggtat aatatataat attatatgtt atgcaatata 240
 atatataata ttatatataa tacattattc aatataatat ataattattat atataataca 300
 ttattcaata taatatataa tacactattc aatataatat acaatattat atataataca 360
 ttattcaata taatatatat tatataatat atatatttat 400

<210> 47

<211> 403

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(403)

<223> MAr of chromosome 1 genomic contig; 7205509..7205911

<400> 47

```

agtatatata tgtgtatata tatgagtata tatatgtgta tatatatgag tatatatatg   60
tgtatatata tgagtatata tatgtgtata tatatgagta tatatatgtg tatatatatg   120
agtatatata tgtgtatata tatgagtata tatatgtgta tatatatgag tatatatatg   180
tgtatatata tgagtatata tatgtgtata tatgagtata tatatgtgta tatatgagta   240
tatatatatg tgtatatatg tgagtatata tatgtgtata tatatgagta tatatgtgta   300
tatatatgag tatacatatg tgtatatata tgagcatata tgtgtatata tatgagtata   360
tatatgtgta tatatatgag tatatatgtg tatatatatg agt                       403

```

<210> 48

<211> 309

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(309)

<223> MAR of chromosome 1 genomic contig; 7507280..7507588

<400> 48

SEL PCT 012.ST25

tataaaatat atattatita tatattatat ataaaatata tattatatta tatattatag 60
 atataataaa taaataatat ataatatatt atataattat ttatacataa ttatatataa 120
 ttataigtaa ttgtacaatt atatataatt atatacaatt atacacataa ttatatataa 180
 ttatacaatt atatacataa ttatatatat aatatacata attatatatt aattatacaa 240
 ttatatatat aattatatat aattatacaa ttatatatat aattattatg tatattatat 300
 tatataata 309

<210> 49

<211> 516

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(516)

<223> MAR of chromosome 1 genomic contig; 3581085..3581600

<400> 49
 atatatatat atatatatat atttatatat atatatatta atatatatta tatataaaaa 60
 tatataaaat ttatatatat aatttatata tataaaaaata tataaaaatt atatatataa 120
 ttatatata taaaaatata taaaatttat atatatata ttatatata aaaatatata 180
 aaatttatat atataattta tatatataaa aatatataaa atttatatat ataatttata 240
 tatataaaaa tatataaaat ttatatatat aatttatata tataaaaaata tataaaaatt 300
 atatatataa ttatatata taaaatatat aaatttatata tataattata tatataatat 360
 aaaatttat atataattat atatatata taaaattata tatataatta tatatataat 420
 ataaaattat atatatattg tatatatata aatatataaa aatttatata tataaaatat 480

aaaatataca taaaaataaa tatatataat ttatat 516

<210> 50

<211> 534

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(534)

<223> MAR of chromosome 1 genomic config; 3084851..3085384

<400> 50

atataatata tatgactata tttttatat tatattctat ttcaataaaaa tttttatatt 60

ttattatata ttataatata taattatata tgtaataata tataatatat aatatatatt 120

ttatattata ttttatattt atttttatat ttatattat attttattat atatattata 180

atatataatt atatatgcaa taatatatta tatattataa tatataatta tatatgcaat 240

aatatattat atattataat atataattat atatgcaata atatattata gattataata 300

tataattata tatgcaataa tatattatat attatatatt agataatata ttaatatata 360

ttataacata taatatataa catataatat ataatatatt atctaataata taatataaca 420

tataatatat aatatattat ataatatatt attacatata taatatattg taatatataa 480

tattacatat atcttcaaaa agagttatgt gtatataata catatatata ccat 534

<210> 51

<211> 583

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(583)

<223> MAR of chromosome 1 genomic contig; 160087..160669

<400> 51

tatttatata aaatatataa aatatattat atataaatat attatatata atatattat 60

atattatata atatattat atattatata taatatattt tatataatat acataatata 120

tttatatat tatatataat atattttata tataatgtac aatatattt atatattata 180

tataatatat ttatatata ctatacaata tttttatat attatatatt ttatatatat 240

tttcatgta acatatatat ttatatata atatatatac catataatat atattttata 300

tataatatat ataccatata taatatattt tatatataat atgtatatca tatatagtat 360

attttatata taataggtat accatatata atatatitta tatataatag gtataacata 420

tataatatat ttatatata atatgtatac catatataat atattttata tattatagat 480

accataigta atatacttta tatataatat agataccata tgaatatatc ttatatata 540

atatagatac catatgtaat atactttata tataatatag ata 583

<210> 52

<211> 314

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(314)

SEL PCT 012.ST25

<223> MAR of chromosome 1 genomic contig; 4350424..4350737

<400> 52

```
tatgtgtata taaatatatg tatatatgtg tatataaata tatataaata tatgtatata    60
tgtatatata catatatatta tatataaata tatgcatata tttatatata aaatatatgc    120
atatatgtat atatatataaa tatatacata tatgtatata tataaaatat atacatatat    180
gtatatatat aaaatatata catatatgta tatataaaa atatatatat atatatatat    240
atataaata tatacatata tgtatatata taaaatatat acatatatit atatatataa    300
aataccaagt cttat                                     314
```

<210> 53

<211> 828

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(828)

<223> MAR of chromosome 1 genomic contig; 8443267..8444094

<400> 53

```
tattatataa ttatatatac tatataatta tataatatat agttatatag tatatataat    60
atatataata tatactatag tatatataat atatatataa tatactatag tatatataat    120
atataattat atataatata tataatatag tatatattat atatatatta tatatatata    180
atatatatat aatatatata atatagtata tataatatat aattatatat aatatataat    240
atagtatata taatatataa tatatatata attatatact ataatatata taatatataa    300
```

SEL PCT 012.ST25

ttatataa taaactatag tatatattat tatataaat agatataata tatataatta 360
 ttatataa tagtatatat aatatataat tatataaat agatataata taatataatt 420
 atataata tagtatatat aatatataat tatattatat tatataaat atataaattat 480
 aatatataat tatattatat aatatatata atataaatt atattatata attatattat 540
 ataataata taatataata ttatattata taatataatat aatatataat tatattatat 600
 aatatatata atataaatt atattatata atatatataa tatataatta tattatataa 660
 tatataaat atataattat atattatata taatataagta tatataaat gtaattatat 720
 atcatataat atataacatt gtatataata tataattaca tattatataa tgtatataat 780
 atataaatt atacattata taatataagta tataattata tattaigt 828

<210> 54

<211> 573

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(573)

<223> MAR of chromosome 1 genomic contig; 8703190..8703762

<400> 54

tatattatat ataaaatata catataatat aactataata taatataat atataatata 60
 tattatgtac atataatata catataatat atataatata taatgtacat ataataatata 120
 tataatatat gttatatatt atataataaa tataggatat atataatata gaatatatat 180
 actatattgt atataataga tatataatat atagtatata tactatataa tatataatat 240
 atagtatata taatataata tatagaatat atataatata tataatatag aatataggat 300

SEL PCT 012.ST25

atatatagaa tatacatata taatatgtat atattatata ttatattata tattatataa 360
 aaatatataa tatataatat aaaaatatat tatatattat ataataaaa atatattata 420
 tattatata tatataatat aaaaatatatt atattatata tattatataat aaaaatatatt 480
 atattatata tattatataat aaaaatatat tatatattat atattatata taaaaatata 540
 ttatataita tatataaaaa tatatattat tac 573

<210> 55

<211> 597

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(597)

<223> MAR of chromosome 1 genomic contig; 8819076..8819672

<400> 55

acatatctta tatataaaat atataaatat acacatatit tatatataat atatattata 60
 tatatgaaat atacacatat ttttatatat ataatatata tattatataat aatatatgca 120
 tatattatat ataaaaatata tatattatat ataaaatag catatattat atataatata 180
 tataatataa aatatataat atattattata tattatataat aatatatatt atatataata 240
 catatatata atatataata tatataaaat ataatatata tattatataa tatatatata 300
 aatatatata atataiatat aatatatata ttatatataa aatatatatt atagtataaa 360
 tatataatat atataatata tatattatat gtaaaatata tattatataat aaaaatatata 420
 atatataaaa tatatattat atataaaata tataatatat aaaaatatata atatataata 480
 aatatataat atatataaat atattattata tataaaatat ataatatata taaatatata 540

SEL PCT 012.ST25

ttatatataa aatatataat atatatataat atatatataa taaaaatat atattat 597

<210> 56

<211> 646

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(646)

<223> MAr of chromosome 1 genomic contig; 759619..760264

<400> 56

taatatatat aatatatatt atataataat atataatata tattatatta taatatataa 60

tatattatat aataatatat attatataat atataataat atataataa catattattt 120

aataatatat aatatatatt atataataat atataatata tattatataa taatatatat 180

tatattatat aatatataat atataataa tatattatat aatatatat aatatatatt 240

atagaatgat atattagata ttatataatt atatatataa tattatatat tatataataa 300

tatataatat atattatata attatataa taatattata tattatataa ttatatataa 360

tatattatat aattatatat ataattatt atattatata attatataa atatatatta 420

tataattata tatataatac tatatattat ataattatat ataattatat atattatata 480

atttatataa ttatatatat tatatattat ataattatat atattatata ttatatataa 540

acatatatat tatatattat ataataacat atatatataa tattatataa tacatatata 600

ttatatatta tataatacat tattatataa tatataatat atatta 646

<210> 57

<211> 752

SEL PCT 012.ST25

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(752)

<223> MAR of chromosome 1 genomic config; 1226710..1227461

<400> 57

```

taaacatata tataaatata tataaatata tatataaata tatataaata tataaatata   60
taaatatata tgaatatata aatatatata aatatatatg aatatataaa tatatatata   120
aatatataa aatatatata taaatatata taaatatata taaatatata taaatatata   180
taaataaata tataaatata tataaatata taaatatata tataaatatg taaataaata   240
tatataaata tataaatata tataaatata tataaatata tatagaaata tatatagaaa   300
tatatataaa tatatataga aatatataga aatatatata gaaatatata taaatatata   360
taaatataga aatatatata aatatatata aatatatata gaaatatata atatataaa   420
atatatataa atatataaat atatataaa atatatatat aaatatatat aaatatatat   480
aaatatatat aaatatatat aaatatatat attaatatat aaatctatat taatatatat   540
taatatataa atctatatta atatatatta atatatatat taatatatat taatatataa   600
atatatatat taatatataa atatataaa atatatatgt aaatatatat ataaatatat   660
ataaatatat atataaatac atataaatat atatataaat atatataaat atatataaa   720
atatatataa atatatatat aaatatatat aa                                     752

```

<210> 58

<211> 300

<212> DNA

SEL PCT 012.ST25

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(300)

<223> MAR of chromosome 1 genomic contig; 1119049..1119348

<400> 58

taataacat ttatataat atatgtaata tatatffat atatatgtaa tatatattt 60

atataatata tgtaatatat atttatata tatgtaatat atattttata taatatatgt 120

aatatatatt ttatataata tatgtaatat atattttata taatatatgt aatatatatt 180

ttatataata tatgtaatat atattttata taatatatgt aatatatatt ttatataata 240

tatgtaatat atattttata taatatatgt aatatatatt ttatatatat gtaatacata 300

<210> 59

<211> 617

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(617)

<223> MAR of chromosome 1 genomic contig; 3603613..3604229

<400> 59

aaaatataat atatataata tataatatat ataatatatt atatataaaa tatataatat 60

SEL PCT 012.ST25

ataatatata taataaaata tacataatat ataagtata ataaaatata cataatatat 120
aatatataat aaatatataa tatataatat ataataaaat atataatata taatatataa 180
taaaatatat aatatattat atataataaa atatataata tattatatat aataaaatat 240
ataatatatt atatataata aaatatataa tatattatat ataataaaat atataatata 300
ttatatataa taaaatatat aatatattat atataataaa atatataata tataatatat 360
aataatatat ataatatata atatataata taaaatatat ataatatata atatataata 420
taaaatatat aatatataat atatataata aaatatatat gatataaat atatataata 480
aaatatatga tatataatat atataataaa atatataata tataatataa tatataatat 540
atatactaaa aaatatataa tatataataa aaaatatata atatataata tatataatat 600
ataataaaat atatata 617

<210> 60

<211> 674

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(674)

<223> MAR of chromosome 1 genomic config; 2592460..2593133

<400> 60

taagcttata tatatatata agcttatata tatatatata agcttatata tatatagaaa 60
gcttatatat atatagaaag cttatatata taagaagctt atatataaaa gcttatgtat 120
aaatatatat aaatatattt atttatgctt atagatacat atataaatat atttatttat 180
atttatatat aaacatatat ttatatatat ttatataata tttatttatt atataataaa 240

SEL PCT 012.ST25

atatataata aataataaat atatataata tatttattgt attattata taaatttatt 300
aatataatat aiaataaaat aataattata taaatatata aatatctata aatatatata 360
aatatatata atatctataa atatatatata atataaatat atataaatatc tataaatata 420
gataaatata aatatatata atatctataa atatagataa atataaatat atataactat 480
atataaatat atataactat atataaatat atatataaat atataaact atatatataa 540
ctatatatat aaatatatat aactatatat ataaatatat atataaatat atataactat 600
atatataaat atataaact atatatataat atatatataa atatatataa ctatatatat 660
aaatatatat ataa 674

<210> 61

<211> 1694

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1694)

<223> MAR of chromosome 1 genomic config; 2891680..2893373

<400> 61

atatgtaata catatattat atagcatat atacatgcat atgtatatac atatattata 60
tatgcatata tacatgcata tgtatataca tatataaagt atgattatat ataatatata 120
catgtatatg tatatacatg tatatattat attatatatt attatacat attattatgt 180
ctatatataa tataatatat acatattaat aatataaac ataataaat ataatatatt 240
atataatata taatatataa taatatatta tataatacat aatataaat aatatattat 300
aigatacata atataatata atatattata tgatacataa tataatataa tacatatata 360

SEL PCT 012.ST25

taatatatta ttattattaa tataatatat acatatatt atacatacat atatattata	420
ttatatataa tatacatata atataatatg taatatattata tataatataa tacataatat	480
aatacatatt aataatatat tattaataag ataatatata tgtatctata atatatacat	540
atatgtatat gtatgtatat attatagata tacatgttta tacatgtata tattatagat	600
atatacatgt atatacatgt atatattata gatatacata tgtatatag tatatattat	660
agatatatat gtatatatgt atatattata tagatataat atatacaaga atataagaat	720
atatataata taatatataa tacacataat acgtatatat tatatatata tgtatattat	780
atatgtacat atatacatgt atattatata tacatgtata ttatatatac atgcatatta	840
tatatatttt tatatatataat atccatgtat attatgtata ttgtgtata ttatatatac	900
atgtatatta tatatacatg catattatat atatttttat atataatatc catatatatt	960
atgtatattt gtgtatatta tatatacata tatattatat atacatggat attatatata	1020
cacatafatt atatatacat atatattata tatacacata tattatatat acatgtatat	1080
tatatataca cgtatattat atatacacac gtatattata tatacacgta tattatatat	1140
acacacgtat attatatata cacgtatatt atatacacac acgtatatta tatatacacg	1200
tatattatat atacacacgt atattatata tacacgtata ttatatatac acacgtatat	1260
tatatataca cgtatattat atatacacac gtatattata tatacacgta tattatatat	1320
acacacgtat attatatata cacgtatatt atatacacac acgtatatta tatatacatg	1380
tatattatat atacatgtat attatatata cacatgtata ttatatatac atgtatatta	1440
tatatacata tgtatattat atatgcatgt atattatata tacacatgta tattatatat	1500
acacatgtat attatatata catatatatt atatatacat gtatattatg tatacatata	1560
tattatatat acatgtatat tatagataca tatattattaa atatacatgt atattatgta	1620
tacatatata ttaaataac atgtatattg tatatacata tatattatat acatgtatat	1680
tacatgtata cata	1694

<210> 62

<211> 587

SEL PCT 012.ST25

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(587)

<223> MAR of chromosome 1 genomic contig; 3432560..3433146

<400> 62

gaattatata tatatagctg aattatatac atatataata tatacaatat atattatata 60

tttatatag atatatacaa tatatattac atattatata tacaatatat aatatataat 120

atataatatt atataattata tattgtatat aatatatatt atataacatt atataatata 180

taattatata tatttatatat tgtatataat atatattata taacattata taatatatac 240

tatttatatat tataatatat aatatataat aatatataat agtatatatt atatatatg 300

tatatattat atataaatat ataatatata atatatatta tataatatat attatataat 360

atataattatt atataattata tatttatata taatatatat tatatatatt atattttata 420

tataaatata taatatataa taatatataa tttaatatat ataatatata caatatataa 480

tatataatat attaatatat ataatatata caatatataa tatataatat ataatatata 540

atataaatta tiatatataa tatatattat atatagctga attatat 587

<210> 63

<211> 313

<212> DNA

<213> Homo sapiens

<220>

SEL PCT 012.ST25

<221> misc_binding

<222> (1)..(313)

<223> MAR of chromosome 1 genomic contig; 3805392..3805704

<400> 63

tatataatat gtatattatg taatatfita tatagcatat algtatatta tatataatct 60

tttatatata gtatataata tgtatattat atattatata attatataat tatgtattat 120

ataaaatata ttatataata tataattata tatfittiga aatatagatt atataataa 180

tatatggcag tgagctgaga tataatatat attatctata ctatataata tatattatat 240

atactctata ttatatatgt atatattata tataafatat acatatataa tgtgtatata 300

ttatatataa taa 313

<210> 64

<211> 349

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(349)

<223> MAR of chromosome 1 genomic contig; 4521378..4521726

<400> 64

ttatatacac tatataatat gtatttatat atacttatat acactatata tgtatttata 60

tataattata tacactatat aatatgtatt tatatataat tatatacact atataaatg 120

tatttatata taattatata cactatataa tatgtattta tatataattg tatacactat 180

SEL PCT 012.ST25

ataatgtata ttatatata attgtataca ctatataatg tatatttatg tataattgta 240

tacactatat aatgtatatt tatgtataat tgtatacact atataatgta tatttatgta 300

taattgtata taccatataa tgtatatatta tgtataattg tatatacca 349

<210> 65

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(500)

<223> MAR of chromosome 1 genomic contig; 3240166..3240665

<400> 65

ftaatatata atatatatta tatatttata tattaatata taatatatat ttatatataa 60

tatatattat atatttatat tacatatatt tataatgttaa tatatatttt atatatattat 120

atattttata tatttatata ttatatattt atatatata ttatatatt atatatattat 180

attatatatt tatatatatt atttatatat tatatatffa tatttatatat ttatatattg 240

tatatattata ttatatattt atatatfgta ttatatatt atatatattat atactatata 300

tatttatata tatttatatat ttatatatta tatatatffa tatatatatt atatttatat 360

attatatata ttatatata ttatatattt atatatata tatatttata tatatttatat 420

atatttatat atatttatata ttatatata atatatatffa tatattttat ctatatattt 480

atatattaat atatatatta 500

<210> 66

<211> 866

SEL PCT 012.ST25

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(866)

<223> MAR of chromosome 1 genomic contig; 409429..410294

<400> 66

```

atatatataa tatattatat atatttatata ttatatatat aatacatata ttatatatat   60
aatatataat acatatattta tatatattat atatttatata taatatataa tacatatatt   120
alatataata tataatatat aatatattat ataataaat tatataattta tataatataa   180
tataatatai aatatttatat aatttatataa tatatataat tatatttatat attataaata   240
ttatataata tatatattac aaatatatat tatatatatt ataaatatta tataacatat   300
atatttatata atatatataa tataiaatat atataaaaaat ataatatata agatatatat   360
aatatatgat atatatgata tataatatat gatatatatg atatatataa tatatgatat   420
atatgatata tatgatatat ataatatatg atatatatga tatatatgat atatgatata   480
tatgatatat gatatatatg atatatatga tatatgatat atatgatata tatgatatat   540
gatatatatg atatatatga tatatgatat gatatatata atatatgata tgatatatat   600
aatatatgat atatatgata tatgatatgt aatatataig atatattata tataatatat   660
aatatataca taatatataa tatataatat ataatatata taatatgtga tatatataat   720
atatgatata tgatatatga tatatattat ataatatata taatatatat tatatataat   780
atatattata taatatatat aatatatatt atatataata tataagatat aagatataat   840
atatataata tataatatat ataata                                     866

```

<210> 67

SEL PCT 012.ST25

<211> 335

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(335)

<223> MAR of chromosome 1 genomic contig; 614754..615088

<400> 67

accaatata tgtgtatata tgtatgtata tatacatata catacataca tatatgtaca 60

tacatatata catacataca tatatatgta catacatata facatacata catatataca 120

tataacatat atacacacat atatacagat atacatata acatacatat atacatataa 180

catatatata tacatatata catataaacac atacatacat acatatatac atacaacata 240

tatacataca tatatacata tgtatacata catatatgta tacatatatg tatacatata 300

tgtatacata tatgtatata tatattgta tatat 335

<210> 68

<211> 455

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(455)

<223> MAR of chromosome 1 genomic contig; 1299520..1299974

SEL PCT 012.ST25

<400> 68

ggatatatat attattagtt gttatatat tatattatt atattattt atatataata 60
tattatatca tatattatt tatatataat atattatac atatatatta ttatataata 120
tattatatca tatattatt tatatataat atattataa tatattatta tatataatat 180
atattatata tattattatg tataatatat atattatata ttattatat atatataaat 240
tatataataa tatataatta attatacata tatacatata taagtataca tataatatat 300
ttatatagta tatataaata tatatacaat atatttatat attatatatt atatataaat 360
atatacaata tatttatatc atatatttta tatatgatac atataatata tattatatat 420
gatataaat atatatcata tatgatatat aacat 455

<210> 69

<211> 404

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(404)

<223> MAR of chromosome 1 genomic contig; 1970778..1971181

<400> 69

atatataata tggataatat ataatatata tcatatattg ttatatttat attacatata 60
atatgcatta tatattatat attgcatata atatgcatta tatattatat attgcatata 120
atatgcatta tatattatat attgcatata atatgcatta tatattatat attgcatata 180
atatgcatta tatattatat attgcatata atatgcatta tatattatat attgcatata 240

SEL PCT 012.ST25

atatgcatta tatattatat aatatatata catataatat atataattta tatatattta 300

tatatattta catttattat atatttatta tatataaata tattttata tattacttat 360

atattatata taatatatat aatatatata ttatatataa tata 404

<210> 70

<211> 605

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(605)

<223> MAR of chromosome 1 genomic contig; 3562918..3563522

<400> 70

tatatatata aaatacatat atattatata tatttatatat aatacatata ttatatatta 60

tatataatac acgtatataa tatataatat ataatacata taatatatat gatataataat 120

acataataa tatatgatat ataatacata tataatatat atgatatata atacatatat 180

aatatatatt atataataa catatataat atatattata tataatacat atataatata 240

tatttatatat aatacatata taatatatat tatatataat acatatataa tatatattat 300

ataatacata tataatatat attatataat acatgtatat aatatatatt atataataa 360

catatatatt atataatata tgiatataat atatattata tataatacat atatattata 420

tatttatatat taatatattt atataatagt aatatataat ataatatat tatatatatt 480

aatttatatat ataatacata tatttatatat aatataaata tatataatac atataataa 540

cacatatatt atataatata tatatttatat ataatatata tatttatatat aatatatatg 600

taata 605

SEL PCT 012.ST25

<210> 71

<211> 317

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(317)

<223> MAR of chromosome 1 genomic contig; 189743..190059

<400> 71

tatttttat atttatatat tatatatatt ttatatgtat atatattata tataaaaatta 60

tataatttta ctacatatata tatataaaat tatataattt tactacatat aatatataaa 120

atttatataat ttactatat ataatatata aaattatata attttatata taatatatat 180

tataatatat atttatatgca atatataatta tatattatat tataatatat tgtatatatt 240

tgtatatataa atatataata tataatatat ttatagacaa taatatataa tataatatat 300

aaaattttat atataaa 317

<210> 72

<211> 522

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(522)

SEL PCT 012.ST25

<223> MAR of chromosome 1 genomic contig; 229111..229632

<400> 72

gatatatata ttatatata taaaagatat atattattta tatataaaga tatatattta 60
tatatataaa agatatatat tatttatata tataaaagat atatatttat atatatgata 120
tatattattt atatatatata aagatatata ttatatata tgatatatat tatttatata 180
taaaagatat atataaaaga tatatattat ttatatatat aaaagatata tatataaaag 240
atatatattta ttatatata taaatgatat atattattta tatataaaag atatatattta 300
ttatatata aaagatatat attatttata tatataaaag atatacatat aaaagatata 360
tatttatata taaaagatat atatatttat atataaaaga tacatafatt tatatatata 420
aaagatatat atattttat atataaaata tatattatat atataaaaga tatatataaa 480
tatatatatc ttatatatat aaaagatata tataaatata ta 522

<210> 73

<211> 1110

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1110)

<223> MAR of chromosome 1 genomic contig; 1138030..1139139

<400> 73

tatgtatgta tacataatat attatatatg tatattatgt atacataata tatttatatat 60
gtatattatg tatacataat atatttatata tgtatattat gtatacataa tatattatat 120

SEL PCT 012.ST25

attatagtga tattatgtat acataatata ttatatatta tatgtatatt atgtatacat	180
aatatattat atattatagt tatattatgt atacataata tattatatat tatatgtata	240
ttatgtatac ataatatatt atatattata tgtatattat gtatacataa tatattatat	300
attatagtga tattatgtat acataatata ttatatatta tatgtatatt atgtatacat	360
aatatattat atattatagt tatattatgt atacataata tattatatat tatatgtata	420
ttatgtatac ataatatatt atatattata tgtatattat gtatacataa tatattatat	480
attatagtga tattatgtat acataatatt tatatattat atgtatatta tgtatacata	540
atatattata tattatagt atattatga tacataatat gtacacataa tattatata	600
ttatagtat attatgtata cataatatt atatattata tgtatattat gtatacataa	660
tattatata ttatagtat attatgtata cataatatt atatattata tgtatattat	720
gtatacataa tattatata ttatagtat attatgtata cataatatat tatataitat	780
atgtatatta tgtatacata atatattata tattatagt atattatga tacataatat	840
attatatatt atagtatat tatgtatata taatattat atattatagt tatattatgt	900
atacataata tattatatat tatatgtata ttatgtatac ataatatatt atatattata	960
tgtatattat gtatacataa tatattatat attatatagt tatattatgt atacataata	1020
tattatatat tatatagtga tattatgtat tatattatat attatgtata ttatagatta	1080
tgtatgcata cataatagt attgtatatt	1110

<210> 74

<211> 521

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(521)

SEL PCT 012.ST25

<223> MAR of chromosome 1 genomic contig; 2863407..2863927

<400> 74

aatatatata aatatataaa tatatatataa tatatatata taaaatata taaatatata 60

tatgtataa tatgtataa tatgtataa tatgtatatg tatatatatg taaatgtatg 120

taaatatata taaatatatg taaatatata taaatatatg taaatatata aatatatata 180

actatatata aatatatata aatatataa taaaatata taaaatata taaaatata 240

taaaataa catataaata taaaataaa tacatatataa tatatatataa tatataaaaa 300

tatatataaa tatatatata aatatataaa catatatataa tatataaata tatataaata 360

tataaatata taaaatatat aatatatatat aatatataa atatatataa atatatataa 420

atatagataa atatatataa atatatataa atataaatat agataaatat ataatatatat 480

aaatatataa atataaaaa atatatataa atataaaaa a 521

<210> 75

<211> 560

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(560)

<223> MAR of chromosome 1 genomic contig; 5712303..5712869

<400> 75

atataattat atatatatta tatattatat ataattatat attatatata atgtataatt 60

atatattata tataatatat ataatatat atatttttta taaaatata ttatatattt 120

SEL PCT 012.ST25

atatattata tataaattta tatatatataa ttttatata ttatatatat ttatatatta 180
tatattgtat atatttatat attacatatt gtatatattt atatattata fattatatat 240
ttatatatta tatatttatat atttatatat tatatattat atatatttat atatttatata 300
taaatttatt atatataata tataaatata fattatataa tataaatttg tatatataat 360
atatatttat atttatata aaatatttat atttatata aaatataata taaatatata 420
catataatat atataattata fatttataat tatatattat atataatata tataatatat 480
aatatataat acatatatat catatatgaa atatatatca tatattatac atatttatata 540
taacatatat atttatatc 560

<210> 76

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(479)

<223> MAR of chromosome 1 genomic contig; 8578812..8579290

<400> 76

tatggtatac atatagtata tatggggtac atatatggta tatatatggg ttatatatat 60
gatatatatt atatatgtat atggtatata tatggtatat atattatata tgcatatggt 120
aigtatatgg tatatatatg atatatatat atggtgtata tatatgttat atatgatata 180
tataaggat atatatggta tatataagggt atatatagta tatatatggt atataaagg 240
tatatattgt atatatatgg tatatataag gtatatatat tgtatatatg gtatatatat 300
ggtttatata taiggtgtgt atatatggtg ttatatatata cactttatat actatatatt 360

SEL PCT 012.ST25

atatacacac tatatataat atatattata tatagttaaa tatatggtat atgcaattag 420

atatatggta tatgtaatta tatatatggt atatagatgg tgtatatatg gtatatata 479

<210> 77

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(477)

<223> MAR of chromosome 1 genomic contig; 8579294..8579770

<400> 77

tatagtatat atacacacta taggtaatat actacatatt atatacacac tataaataaa 60

atatataata tataatattt tctatatagt atatattata tattgtatat actatatata 120

atatatacta tagacagtag atactttata tactatagac agtatatact atatactgta 180

tacactatag acagtatata ctatatactg tatacagtat atgtagtgt tatgtagtgt 240

atataatata tagtatatat tatctatact atatacagta tatatagtgt atacataata 300

tatattatat attatatata ctatatacag tatacatagt gtatatgtag tgtataatat 360

atataatgtg tatataaaat atatatacta tatataatat atattatata taatatatac 420

actatafata ctatagatac actatafalt cactalatat actatatata ctatata 477

<210> 78

<211> 331

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(331)

<223> MAR of chromosome 1 genomic contig; 8580024..8580354

<400> 78

```
actatatgtt atatacataa gatatagtat ataccatata ttatatacat tatatatagt   60
gtatactata tataatgtat ataatatata gtatatatac actatatata ctatgtatat   120
atacactata tatactatgt atatatcac tatatatact atgtatatat acactatata   180
tactatgtat atatacacta tatatactat gtatatatac actatatata ctatgtatat   240
atacactata tatactatgt atatatcac tatatatact atgtatatat agtgtatata   300
tactgtatat gttatagtgat atatatagta t                                   331
```

<210> 79

<211> 410

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(410)

<223> MAR of chromosome 1 genomic contig; 8580705..8581114

<400> 79

```
tatagtctat attatataca gtctatataa tatatagtat atactatata tacttttcct   60
```

SEL PCT 012.ST25

cattctgact atatactata tatatactat atatagtata tgtagtgtat atatacacca 120
 tatatactat atatagtata cataccatat atagtatact atacatacca tatatagtat 180
 acataccgta tatagtatac tatacttacc atatatagta tacatactat atataatata 240
 tctgggtgat atatacacta tatatactat atatactata tatagtatat gtacactatt 300
 tatagtattt atagtatata tactgtatat atagtatgta gtatatatac tatatattat 360
 gtgactata tataatatag actatgtgta gagtatatat actatatata 410

<210> 80

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(433)

<223> MAR of chromosome 1 genomic contig; 12979167..12979599

<400> 80

atatataata tatatatgtc ctatatafaa aatataatcat atatataaat atatatgata 60
 tatatttatat attaaatata taattatata taaatatata ttatataata aatatattat 120
 ttcaatatat ataaatatat ttaaatatat ttaaatagaat tattaaatat ataaatatat 180
 aattatattt aatatataaa tatatattaa atatatattt atatttaata tatataaata 240
 tatatttaa atataattat atatttatat atttattata tataaatata tatttgttct 300
 aaataaatat atattctaaa tatataatat ttatattat ataatatata atataaaata 360
 tataataaat atataatata taaataaata aatatttatt ataaaatata tataaatatt 420
 aaatatatat taa 433

SEL PCT 012.ST25

<210> 81

<211> 385

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(385)

<223> MAR of chromosome 1 genomic contig; 16336644..16337028

<400> 81

```
tttatataaa tatctatata aataaatata taaatatata aatataaata tatataaata   60
tataaataaaa tatataaata tatataaata taaatatata tataactatg aatttatatt  120
tatataaata tatatctata tgaatataaa tatatattta tataaatata aatatatata  180
taaatatata tafttatata gatafaaata tatatataaa tatatatatt tatatagata  240
taaatatata tctatatatg aatatatata tataggaata taaatatata tctatataaa  300
tataaatata tataagtata aatatatata aatatatata tatataaata taaatatata  360
tataaatata aatatatata taaat                                     385
```

<210> 82

<211> 363

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

SEL PCT 012.ST25

<222> (1)..(363)

<223> MAR of chromosome 1 genomic contig; 20624448..20624810

<400> 82

tatatatata gttatatata tatttatata tatagttata tatatatatt tatatagtta 60

tatatatagt tatatatata gttatatata tatagttata tatatagtta tatatatagt 120

tatatatata tagttatata tatagttata tatatagtta tatatatagt tatatatata 180

tagttatata tatagttata tatatatagt tatatatata gttatatata tatagitata 240

tatatagtta tatatatagt tatatatata gttatatata tagttatata tatatagtta 300

tatatatata gttatatata tatagttata tatatagtta tatatatata gttatatata 360

tag 363

<210> 83

<211> 310

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(310)

<223> MAR of chromosome 1 genomic contig; 566025..566334

<400> 83

tatatataat atatattgta tatattatat attgtatata taatatatat tgtatatatt 60

atatattgta tatataatat atattgtata tattatatat tgtatatata atatatatat 120

tgtatatatt atatattgta tatataatat atatattgta tatattatat attgtatata 180

SEL PCT 012.ST25

taatatatat attgtatata ttatatattg tatatataat atatataatg tatatattat 240

atatgtata tataatatat atattgtata tattatatat agtatatatt atatatagta 300

tatataatat 310

<210> 84

<211> 1236

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1236)

<223> MAR of chromosome 1 genomic contig; 1171429..1172664

<400> 84

aaagtattat atgtattata tgtatatgta ttatatatta catatgtatt atatataata 60

tatattatat attattatat attatatatt atatattatt attatataa tgtattatat 120

attatatagt atatatagta tatataatgt attatatatt atatagtata tatagtatat 180

aatgtatt atatatagta tatataatgt attatatagt atatatacta tataatgtat 240

tacatattat gtatagtata tgaatgtat tatatattat atagtatatg taatgtatta 300

tatgtattat atagtatata ttatatatga tgtattattt agtatatata atatatatga 360

tgtattatat aacatatata atatatatga tgtattatat agcatgtata gtatatatga 420

tgtattatat agcatgtata gtatatatga tgtattatat atagcatgta tagtatatat 480

gatgtattat atatagcatg tatagtatat atgatgtatt atatatagca tgtatagtat 540

atatgatgta ttatatatag catgtatagt atatatgatg tattatatat agcatgtata 600

gtatatatga tgtattatat atagcatgta tagtatatat gatgtattat atatagcatg 660

SEL PCT 012.ST25

tatagtatat atgatgtatt atatatagca tgtatagtat atatgatga ttatatatag 720
catgtatagt atatatgatg tattatalat agcatgtata gtatatatga tgtattatat 780
attatatatg gtatatatga tgtattatat attatatatg gtatatatga tgtattatat 840
attatatatg gtatatatga tgtattatat attatatata atatatatga tgtattatat 900
attatatata atatatatga tgtattatat atgatgtatt atatataata tatatgatgt 960
attatatata ttattatcta ttatatacga tgtattatat gcaagttatt atgtataata 1020
tataatgtat tatatattat ataatgtata atatataaat atataaatat ataattatgt 1080
ataaatatag aaatatatatac attatacatt atatacatta taatgtataa tatataaata 1140
tattatatat aaatgtatac attatatata aatatattat atacattata tataaaatat 1200
gtatatagtt attatacctt atatatacta aacagt 1236

<210> 85

<211> 309

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(309)

<223> MAR of chromosome 1 genomic contig; 1925173..1925481

<400> 85

atataattat ataaatatat ttatatataa tatatattat ataattattat aatatatgtt 60
atattatata tattttatatac aatatataat atatatata tatattttat acaatatata 120
atatatatata tatatatatt atataatata taatatatat tatatatatt ttatacaata 180
tataatatat attatatatt atataatata tattatatat attttatata atatataata 240

SEL PCT 012.ST25

tatattttat acaatatata atgtatatca ttatattata taatgtatat catattatat 300

aatgtatat 309

<210> 86

<211> 312

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(312)

<223> MAR of chromosome 1 genomic contig; 4396756..4397067

<400> 86

cacagtgtat ataatgtata tatactgtat atatactgtg tatatacact gtatatacac 60

agtgtatata cagtatatat actatatata cactgtgtat ataatgtata tataaattct 120

aggaatatat atactatata tatactatat atataaattc taggaatatata tacacactat 180

atatacacta tatatacaca tatatacact atatatatta tacacatata ttatatatat 240

acactatata tacacgagat atataacata tacactatat actatacaca acatatatac 300

tatatatact at 312

<210> 87

<211> 398

<212> DNA

<213> Homo sapiens

<220>

SEL PCT 012.ST25

<221> misc_binding

<222> (1)..(398)

<223> MAR of chromosome 1 genomic contig; 56057..56454

<400> 87

atatafatta catattatat atataatata tattatataa tatatattat attatataat 60

atataatata aatataatat aaattatatt atataatata taatataaat ataataataa 120

ttatataaat ataatafata ttttattata taatataata tatattatat aaatataata 180

tataaattat ataataatata atatatata taatataata tttttatta tataaatata 240

tattatatta tataatatat attttattat ataatatata ttatatatt atagaatata 300

atatafatti tattatataa tatatattat ataatatata ttatattat atataacata 360

tattattata taaaatatgt ataatatata ttatataa 398

<210> 88

<211> 391

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(391)

<223> MAR of chromosome 1 genomic contig; 56984..57374

<400> 88

tactataata catattatat ataattattat atactatata ttactatatt attatattat 60

atataattaa actatattat agtatataat atataatata tactatatgt aatattacta 120

SEL PCT 012.ST25

tgatactgat attatattat atataattaa attatattat attaatatat aaattatata 180
 taatacataa tatataaatt atattatatt atttatatat aatgtatgcc atataattta 240
 tatataatgc atttatata atttatatat aatgcattaa atataaatta tatataatgc 300
 atttatata atttatata atgcattata tataatttat atttaatata taaatttata 360
 tttaatata ttatatatta tatataataa a 391

<210> 89

<211> 309

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(309)

<223> MAR of chromosome 1 genomic contig; 469547..469855

<400> 89

atatatatgt aatatatatg ttatatatgt aatatatatg ttatgttata tatgttatat 60
 atatgttata tataatatat atgttatata tacgttatat gttatatata tgttatatat 120
 aatatatggt atatatacgt tatatgttat atatgttata tataatatat gttatatata 180
 atatatgita tatatgttat atataatata tgttatatat atttatata atatatgta 240
 tatatattat atataatata taatatatgt gatataaat ataaaatata tgtgatatat 300
 atttatatat 309

<210> 90

<211> 441

<212> DNA

SEL PCT 012.ST25

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(441)

<223> MAR of chromosome 1 genomic contig; 546190..546630

<400> 90

```

atacacaaca tatgtgtata tatatagtat atatacaca catatgtgta tatatatagt   60
atatatacac aatatatgtg tatatatata gtatatatac acaatatatg tgtatatata  120
gtataaatat atactatata tagtatatat agtataaata tatactatat atagtatata  180
catagtataa atatatata tatatagtat atacatagta taaatatata ctatatatag  240
tatatacata gtataaatat atactatata tagtatatac atagtataaa tataactat  300
atatagtata tacatagtat aaatatatac tatatatagt atatacatag tataaatata  360
tactatatat agtatatata tagtataaat atatactata tatagtatat acatagtata  420
aatatatact atatatagta t                                     441
  
```

<210> 91

<211> 1367

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1367)

<223> MAR of chromosome 1 genomic contig; 124643..126009

<400> 91

atatttat gatataat atataata ttatatata tattatat gatataac 60
 attatataat attatatatg atatatatta tatatattat atagatata taatatatat 120
 aatattatat atgatattat atacatata taatatata aatattatat atgatatata 180
 atatatataa tattatatat attatatata ttatatatca tatataatat tctaaatata 240
 taatattata tgatatataa gattatatac attatatata atataata ttatatatga 300
 tatataatat tatatacaatt atataata tataatgtat ataattattat atattatata 360
 ttatattat atacaatgta tataatatta tatatcatat atatttatat tatatacaat 420
 gtatataata ttatatatca tatataatat tatatacaat gtatataata tatatttatat 480
 atatttatat tatatacaat gtatataata tatatttatat atatttatat tatatacaat 540
 gtatataata tatatttatat atatttatat tatatacaat gtatacaata ttatatatta 600
 tatatttatat atttatatta tatacaatgt atatttatata tattatatat ttattattata 660
 tacaatgtat atatttatata ttatatattt atatttatata caatgtatat attatatatt 720
 atatttttat attatatata atgtatatat tatatattat atatttatat tatatacaat 780
 gtatatatta tatatttatat atttatatta tatataatgt atgtaattat atatttatata 840
 tatttatatt atataaatg tatgtaatat tatatattat atatttatat tatatataat 900
 gtatgtaata ttatatatta tatatttata ttatatataa tgtatgtaat attatatatt 960
 atattattat attatatata atgtatgtaa tattatatat tatatattta tattatatat 1020
 aatgtatgta atatttatata ttatatattt atatttatata taatgtatgt aatatttatat 1080
 attatatatt tatatttatat ataatgtatg taatattata tattatatat ttattattata 1140
 tataatgtat gtaatttat atatttatata ttatatatt atataatgta tgaattatta 1200
 tatatttatat atttatatta tatataatgt atataattat atatttatata tatttatatt 1260
 gtatataata ttatatatta tatatttata ttgtatataa tatatattat atatttatat 1320
 tgtatataat attatatatt atatttttat attatatata atgtata 1367

SEL PCT 012.ST25

<210> 92

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(458)

<223> MAR of chromosome 1 genomic contig; 58908..59365

<400> 92

tatatgatataatgatataatgggatataatgatataatgatataatgggatata	60
atgatataatgatataatgatataatgggatataatgatataatgatataatgggatata	120
atgatataatgatataatgatataatgggatataatgatataatgatataatgggatata	180
tatatgatataatgatataatgatataatgggatataatgatataatgatataatgggatata	240
atgatataatgatataatgatataatgggatataatgatataatgatataatgggatata	300
atgatataatgatataatgggatataatgatataatgatataatgggatataatgggatata	360
atgatataatgatataatgggatataatgatataatgatataatgggatataatgggatata	420
tatatgatataatgatataatgggatataatgatataatgggatataatgggatata	458

<210> 93

<211> 330

<212> DNA

<213> Homo sapiens

<220>

SEL PCT 012.ST25

<221> misc_binding

<222> (1)..(330)

<223> MAR of chromosome 1 genomic contig; 306867..307196

<400> 93

```

ataatatata aatatatatg atatatatct atatatatca tatataaata tatatgatat   60
atatctatat atatcatata taaatatata tgatatataa atatatatga tatatatcta   120
tatatatcat atataaatat atatgatata taaatatata tgatatatat ctatatatat   180
catatataaa tatatatgat atatatctat atatcatata taaatatata tgatatatat   240
ctatatatat catatataaa tatatatgat atctatctat atatatcata tataaatata   300
tatgatatct atctatatat atcatatata                                     330

```

<210> 94

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(353)

<223> MAR of chromosome 1 genomic contig; 636899..637251

<400> 94

```

tatgtataca tatacacata tacgtatata tatacatata tacacatata cgtatatata   60
tacgtataca tacatatgta tatgtatacg tatacacaca tatgtatatg tatacgfata   120
cacacatata cgtatatatg tatacgfata cacacatata cgtatatgta tacatatata   180

```

SEL PCT 012.ST25

tgtgtacata tacgtatata cgtatatgta tacatatata cgtttatgta tatatacgta 240
tatacgtata tatgtatatg tatacatata tacatatatg tgtatatatg tatatacgta 300
tatgtgtata tatacaatat acatacatgc acatatatgt gtatatgcac ata 353

<210> 95

<211> 345

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(345)

<223> MAR of chromosome 1 genomic contig; 1435510..1435854

<400> 95

atcatatata ttatatatca tatatatgat atataaaaat tatatatcat atatatgata 60
tataaaaaat atatatatca tatataatat atataatat ttatatatat aaattatata 120
taatatatat aaattatata tatcatatat atgatatata atttatatat catatatatg 180
aatatataa tatattattt atatataata tattatatat tatataatat gtaatatata 240
ttatatatta catattatat tatttataaa taatatattt taatatatat aatattatat 300
aatatagaat atttatattt atatatataa tattatataa tatat 345

<210> 96

<211> 521

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(521)

<223> MAR of chromosome 1 genomic contig; 39695..40215

<400> 96

tatatatata atagatatta tatatctatt atatatctat tatatata atagatatta 60

tatatctatt atatatataa tagatattat atatctatta tatatataat agatattata 120

tatctattat atataatata tatctattat atattatata tctattatat ataatatata 180

tctattatat atattatata tctattatat atataataga tattatatat ctattatata 240

taatatatat ctattatata ttatatatct attatatata tgtatctatt atatatatta 300

tgtatctatt atatatataa tatatctatt atatatatat tatatataat atattatata 360

tatattatat atctattata tataatatat atctattata tatattatat atctattata 420

tatattatat atctattata tataatatat atctattata tatattatat atctattata 480

tataatatat attatatata tattatatat tgtatatcta t 521

<210> 97

<211> 484

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(484)

<223> MAR of chromosome 1 genomic contig; 1286007..1286490

SEL PCT 012.ST25

<400> 97

atatcatata tattatatat catatatatg atatataaaa attatatatc atatatatga 60

tatatataaa ttatatatat catatataat atatataata tattatatat ataaattata 120

tataatatta tatataaatt atatatcaca tatatgacat ataaattata tatcacatat 180

atgatatata atttatatat cacatatatg atatataatt tatatatcat atatatgata 240

tataatttat atacatata tatgatatat aatttatata tcatatatat gatatatata 300

atataattat tatatataat atattatata ttatataata tgaatatat attatatatt 360

atataatag taatatatat tatatatatc atattatatt atttataaat aatattttat 420

aatatatata atattatata atatagaata ttatatatta tatattacat attatataat 480

atat 484

<210> 98

<211> 244

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(244)

<223> MAR of chromosome 1 genomic contig; 73556..73879

<400> 98

attatatatt atattatata atatataata atattatata attatatatt acattatata 60

atatataata atattatata ataatatata attatataat atataataat attatataat 120

attatataat attatataat atataaatat ataataatat atattatatt atataatagt 180

atatattata ttatataata tatgttatta tattatataa tataaactat tatataatat 240

SEL PCT 012.ST25

244

aata

<210> 99

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(463)

<223> MAR of chromosome 1 genomic contig; 179038..179500

<400> 99

tacaatatat ttctattat atatatttg tattatatat aatatacaat atattttcta 60

ttatatataa tataatttgt attatatata ttacaatata tttgtatta tataatatat 120

aatacaatat aatatattgt attatataat atataatact atataatata ttgtattata 180

tattatatat aatactatat aatatatttt attatatatt atatataata ctatataata 240

tattttatta tatattatat ataatacaat atataatata ttgtattata atacaatgta 300

ttataatgta ttatatataa tatataatac aatatataat attatatata ttatatata 360

tatatatttt gtattaiata ttttgtatta tatataattt gtattatata ttatatattt 420

atattataat tatgttttgc attatatatt tcatattata tat 463

<210> 100

<211> 390

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(390)

<223> MAR of chromosome 1 genomic contig; 55617..56006

<400> 100

```

tgtataatat atatacttta tatataatat atatacttta tatatatact atatactaata 60
atatataata tatactatat ataatatata ctaatatata taatatatac actatatata 120
atatatacta atatatatta tatatacttt atataatatata tactaatata tataatatat 180
atacttiata tataatatat actaatatat ataattgtata tactttatat ataatatata 240
ctaatatata atatatatac ttatatata atatatata atatatatta tatatacttt 300
atatatataa tatatacttta tatattatat atgcttatat ataatatata cactaatata 360
taatatatat actttatata ttatatttta 390

```

<210> 101

<211> 582

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(582)

<223> MAR of chromosome 2 genomic contig; 1157405..1157986

<400> 101

```

tgtatatgta tatatacaca tacgcacata tatgtatatg tatatatata catacgcaca 60

```

SEL PCT 012.ST25

tatatgtata tgtatatata cacatacgcacatatatgta tatgtatatg tatatgtata 120
tatacacata tacacatatata tgtatatgtata tatatacaca tatacacata tatgtatatg 180
tatatatata cacatacaca tatatgtata tgtatatata cacatacaca tatatgtata 240
tgtatatgtata tatatacaca tacacatatata tgtatatgtata tatgtatatata tacacatatata 300
cacatatata cacatatatgta tacatatatg tgtatatata tacacatatata tatacatata 360
tgtatacata tatgtgtata tatacacata tatatacaca tatacatata cacatatatg 420
tgtatgtata tatacacata tacatatata tgtatatgtg tatatatatt agacagatat 480
atatgtacat atacatatat atgta tatgt atagtatatat gtatatgtat atgtatatgt 540
atatgcatat ataatatata tatacatata tgtatatgtata ta 582

<210> 102

<211> 322

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(322)

<223> MAR of chromosome 2 genomic contig; 1858638..1858959

<400> 102

acaccatatata tacaccatat atatacatat cacatatata ccatatatat acataccata 60
tatataccat atatatatat accatatata caccatatat atatacaca tatatatata 120
ccatatatat acataccata tatataccat atatatatat accatatata taccatatat 180
atacatacca tatatatata ccatatatat acataccata tatatacacc atatatatat 240
ataccatatata tataccatat atataccata tatatacacc atatatatat accatatata 300

ccatataat acaccatata ta

322

<210> 103

<211> 914

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(914)

<223> MAR of chromosome 2 genomic contig; 5712196..5713109

<400> 103

aaatataat tctatata gaaaatata attctatata tatagaatat atatagaata 60

tatattctat atatattcta tatatataga atatataat aaaacatata ttctatata 120

aaaatata ttctatata ataaaatata tattctatata atatagaatg tatataaaat 180

atatattcta tatatataga atgtatataa aatatatatt ctatatata agaattgata 240

taaaatata attctatata tatagaatgt atataaaata tatattctat atatatagaa 300

tatatataac atatatatga aatatatata aaatatata aaatacatat ttctatata 360

aaatatata aaatacatat ttctatata aaatafatat caatacatat ttctatata 420

aaatatata aaatatata tcatatatata aaaaatata aaatatata tcatatatata 480

aaaatata tgaatatata ttctctatata ataaaatata tataatatata attatatata 540

taaaatata ataatatata ttatatata aaaaatata taatatata tcatatatata 600

aaattatata taaatatata ttcatatata taatatata aaattattat ttcatatata 660

aaatatatt aaatatata ttctatatag aatatatatt ctatatataa aaatatata 720

taatatatt ttctatatag aaatatata gaaatatata gaatatata aaatatata 780

SEL PCT 012.ST25

tatatatact atatatacaa tatatattat atataaaata tatatacaat atatattcta 840
 tatattaata tatagaatat atattaacat atatttcaat atattaatat atgaaatata 900
 tataaataatt tcat 914

<210> 104

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(370)

<223> MAR of chromosome 2 genomic contig; 5713613..5713982

<400> 104

tatttcatat ataatatata tataaaatat atatttcata tacataatat atataatata 60
 aataaaatat atatttcata tatataatat atataatata tataaaacat atatttcata 120
 tataatatat ataaactata tatttcatat ataatatata taaactatat atttcata 180
 cataatatat ataatatata ttcatattat attatatata taatatatat tcatatata 240
 taatalataa aatagatata aatatatata aatatatatt tcatatataa tatatataaa 300
 atatatatta atatatattt tatatataat atatataatt catatataaa tataaaaaaa 360
 tatatatffc 370

<210> 105

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(442)

<223> MAR of chromosome 2 genomic contig; 7481647..7482088

<400> 105

atataaatta tataatatgt tatataatat ataaatatat tatataacat gttatataat 60

atataacatg ttatataata tataacatgt tatataatat ataacatgtt atataatata 120

taacatgta tataatatat tatgtaatat gttatataat atataatata ttatataaca 180

tggtatataa tatataacat gttatataat atgttatata atataaaat atattatatt 240

atatgttata taatatataa atattatata ttatatgta tataatatat aaatatatta 300

tattatatgt tatataatat ataaatatat tatattgtat gttatataat atataaatat 360

attatatgt atgttatata atataaaat atattatatt gtatgttata taatatataa 420

atatattata ttatatatgt ta 442

<210> 106

<211> 338

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(338)

<223> MAR of chromosome 2 genomic contig; 9594557..9594894

SEL PCT 012.ST25

<400> 106
 tatataaata tataccatat atataaatat atatattcca tatataaata tatatatfcc 60
 atatataaa atatatatat tccatatata aatatatata ttccatatat ataaatatat 120
 atataaatat atatattcca tatatataaa tatatatata aatatatata ttcatatata 180
 aatatatata tattccatat ataaaaatat atatatattc catatataaa aatatatata 240
 tattccatat atataaatat atatatattc catatatata aatatatata tattccatat 300
 atataaatat atatatattc catatatata aatatata 338

<210> 107

<211> 364

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(364)

<223> MAR of chromosome 2 genomic contig; 10519720..10520083

<400> 107
 ttatatatat ttataaat atataaagc tatatatatt tatatataat atattatata 60
 tattagctat atatatatt atataaat attatatatt agctatatat atttatatat 120
 aataatatat ataagctata tatttatata tattatatat tagctatata tatttatata 180
 taatatatta tatattagct atatatatt atataataaa taatatatat attagctata 240
 tatatttata tataataata tatataagct atatatatt atataatata ttatatatta 300
 gctatatata ttatatata ataatatatt atatattagc tatatatatt tatatataat 360
 atat 364

SEL PCT 012.ST25

<210> 108

<211> 342

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(342)

<223> MAR of chromosome 2 genomic contig; 11481943..11482284

<400> 108

tacatataat atataattat atataatata tattatatat tacatataat atatatatat 60

tacatatgta atatatatat tatatatgta atatatatta tatatgtaat atatatatta 120

tatatgtaat atatatatta tatatgtaat atatatatta tatatgtaat atatatatta 180

tatgtaatat atatatgtaa tatatatata atatatatgt aatatatata taatatatat 240

gtaatatata tataatatat atgtaatata tatattatat atatgtaata tatatcatat 300

atatgtaata tatatcatat atatgtaata tatatcatat at 342

<210> 109

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(415)

SEL PCT 012.ST25

<223> MAR of chromosome 2 genomic contig; 13499598..13500012

<400> 109

tatatatata tatatatata atataatata atatatatat aaatatatat aatataaatt 60

tatatatata tatttatata tacatatata aatatatatatt tatatttata tataaatata 120

tataaatata tataaatata tatttatata tacatatata aatatatatg ttcatataaa 180

tatatatgta tatatacata tataaatata tatttatatat gatatatat aatataatat 240

ataataataa tataatatat attataataa tataatatat tatatatatat atatatata 300

tataatatat aatatatat atataatata tatttatatat tatataatat ataaaatata 360

tatttatataa tatatatata taatatatat aaataatat atataaagat ataaa 415

<210> 110

<211> 330

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(330)

<223> MAR of chromosome 2 genomic contig; 16370976..16371305

<400> 110

catttacata tgtatgtata agtatgtata ttacataact atacatacat acttataaat 60

atataagtat aatacatata tacttataaa tatataagta taatacatat atacttatat 120

atatataagt ataatacata cataactata catatataag tataatacat acatacttat 180

acatatataa gtataatata tacatactta tacatataag tataatacat acatacttat 240

SEL PCT 012.ST25

acatatataa gtataataca tacataactta tacatatata agtataatac ata cttatta 300

catatgtata taagtatat acatacttat 330

<210> 111

<211> 702

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(702)

<223> MAR of chromosome 2 genomic contig; 626641..627342

<400> 111

tatatataca catatacata tataatatat atacatatat atatataa tatatacata 60

tatattacat atatcatata tacatatata ttatatatac atatataa tatatatcat 120

atafacatat atatattata tattatatat atcatatata catatatatt atatataa 180

tatatatcat atatacatat atattatata tattatatat acatatatat tatatatatc 240

atalaaacat atatattata tatatcatat atacatatat attatatata ttatatatat 300

catatatata tatatatatt atatatcata tataatatat attatatata ttatatataa 360

tatatattat atatacatat atattatata tacatatata ttatatatac atatataa 420

tatatacata tatattatat atacataat attatatata tacatatata ttatatatac 480

atatataa tatatacata tattatatat acatatatat tatatatata tatattatat 540

atafacatat atattatata tacatatatt atatatatat atatataa tatatacata 600

tattatatat atacatatat attatatata catatatatt atatacatat atattatata 660

tacatatata ttatatatat atataatata ttttatat at 702

SEL PCT 012.ST25

<210> 112

<211> 679

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(679)

<223> MAR of chromosome 2 genomic contig; 3196047..3196725

<400> 112

```

atatattata tattcatata tcataaatat atatattata tattcatata ttatatatct   60
ataiatffat atattcatat attatataac tatatattta tataattcata tattatatat   120
ctatttatat attcatatat tatatatcta tataatttat atattcgtat attatatatc   180
tatatattat atattcgtat attatatatc tatatattat gtattcatat atatctatat   240
attatatata ttcatatata ttataaatta tattcatata gtatatatct attataaatg   300
tatattcata tagtatatat ctatatatta taaatataca tatattatat atttatatat   360
tatatattca tatagatcta tatattatat atattcatat atgaatatat atatttatatg   420
tatatatatt ataaatatat ttatatagta tagatattat atagtatatg catatttata   480
ttataaataa ttacatagat atagtatat ttataaatta tatatattta catattacat   540
gtatatttat atattataaa tacatattta catattataa atatatttat atattatgaa   600
tataatttat atattattac atatttacct atatgcatag ttatatatta taaatgatga   660
ttatgtaaa tatatattt

```

679

<210> 113

<211> 728

SEL PCT 012.ST25

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(728)

<223> MAR of chromosome 2 genomic contig; 3196778..3197505

<400> 113

```

tacataaata tatatttaca atagttaa atctgatatg taaatatgta ttataaatat   60
ataaatatac atataaatatg taaatatata aatatacata tactatgtaa atatatglla  120
tatatacata tactatataa atatagaata tataaatata catatactat ataaatatgt  180
aatatataaa tatatactat ataaatatac atatactata taaatgtatt tataafatat  240
aaatatacat atactatata aatcatata tgaatatata atatataaat atatataata  300
tatgaatata tactcatata taaatatata tgaatatata ttataaatat atagatataa  360
tatgaatata tatttataat atagatat atatttatg aatatatatt tataafatat  420
agatatatac catatgaata tatattatac actatatgaa tatatattta taatatataa  480
atagatatat actatatgaa tatataatat atatactcta tgaatatata atatatatac  540
tatatgaata tattatatac tgtatgaata tataatatat agatglatac tatatgaata  600
tataatatat agatatatat actatatgaa tatatataat atagatat atactatatg  660
aatatatatg atatatagat atatactata tgaatatata atatatagat atatatttat  720
gatatatg

```

728

<210> 114

<211> 413

<212> DNA

SEL PCT 012.ST25

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(413)

<223> MAR of chromosome 2 genomic contig; 2560638..2561050

<400> 114

atataaatat atatttatat attttatata aatatatata ttatatatt ttatatataa 60

tatatatatt tatatatatt tatataaata tatatattta tatatattta tataaatata 120

taaatatata tatttatata aatatataaa atatataaat atatttatat aaatatataa 180

aaatatataa tatatttata taaatatata aaatatataa atatatattat atataaatat 240

ataaaatata taaatatctt tatatatataa tatataaaat atataaatat ctttatatat 300

aaatatataa aatatataaa tatatttata tataaatata taaaatatat aaatatattt 360

atatacaaat atataaaata tataaatata ttatatata aatatataaa ata 413

<210> 115

<211> 361

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(361)

<223> MAR of chromosome 2 genomic contig; 4965309..4965669

SEL PCT 012.ST25

<400> 115

tatacgtata tatacatata tatacgtata tatatacata tatatacgtata tatatacata 60

tgatatatg tgtgtacatg tatatatata catatgtaca tatatatgta cacatatata 120

tatacatata tatgtacaca tatacatata tatgtacaca tatacatata catatatatg 180

tacacatata tatacatata tatgtacaca catatatata catatatatg tacacacata 240

tatacgtata tatgtacaca catatatatg tatatatatg tacacacata tatacgtata 300

tatatgtaca cacatatata tacgtatata tatgtacaca tatatatata cgtatatata 360

t 361

<210> 116

<211> 325

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(325)

<223> MAR of chromosome 2 genomic contig; 5258150..5258474

<400> 116

tacacacaca tatacatata tacatatata cgtgtatacgtata tatacgtata tacgtatata 60

tacatatatg tatacgtata cgtatatatg tatatatata tatatgtata cgtatacgtata 120

tatacgtata tatacatata tgtatacgtata tacgtatata cgtatatata catatatgta 180

tacgtatacgtata tatacgtata tatatacata catatgtata cgtatacgtata tatatgtata 240

tatacgtata tgtatacgtata tacatatata cgtatatata cgtatatgta tatgtatata 300

cgtatatgta tatatgtata tatac 325

SEL PCT 012.ST25

<210> 117

<211> 1508

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1508)

<223> MAR of chromosome 2 genomic contig; 6057499..6059006

<400> 117

```

atataatata tataaattat ataatatata aaaattaata tataatatat ataaattata   60
taatatataa attaattata taatatatat aaattatata atatatataat taattatata   120
atatatataa attatataat acatatataat taattatata atatatataat tatataatat   180
atacaaatta tatactatat taattatata ttatataatt aattatataa tatatatataa   240
ttatatatta ttaaattaat tatataatat ataaattata taatatataa attaattata   300
taatatataa attatataat atataaatta attatataat atataaatta tataatatat   360
aaattaattg tataatatat aaattaatta tataatatat aatatataat taataaataa   420
ttatatatta attatataat taataaataa ataataaata tatataatta atatatata   480
tacaatcatat atatacata tagattatat aatagttata tattatataa taaattatat   540
ataatataia ataaacatat ataacatatg ttatatatta cataatatag tataatatat   600
aacatatgtt atatattaca taatatagta taatatataa catgttatat attacataat   660
atagtataat atataacata tgttatatat tacataatat agtataatat ataacatatg   720
ttatatatta cataatatag tataatatat aacatatgtt atatattaca taatatagta   780
taatatataa catatgttat atattacata atatagtata atatatataa tatgttatat   840

```

SEL PCT 012.ST25

attacataat atagtataat atataacata tggatatat tacataatat agtataatat 900
 ataacatatg ttatatatta cataatatag tataatatat aacatatggt atatattaca 960
 taatatagta taatatataa catatggtat atattacata ataggtata atatataaca 1020
 tatgttatat attacataat atagtataat atataacata tggatatat tacataatat 1080
 agtataatat ataacatatg ttatatatta cataatatag tataatatat aacatatggt 1140
 atatattaca taatatagta taatatataa catgttatat attacataat atagtataat 1200
 atataacata tgctatatat tacataatat agtataatat ataggtata tattacataa 1260
 tatagtataa tatataacat atgttatata ttacatttta tagtataata tatatgttat 1320
 atattatata ataggtata atatataatg tatgttatat attatataat ataggtataat 1380
 atataacatg ttatatatta tataatatag tataatatat atgttatata ttatatataa 1440
 tagtataata tataatatat gttatatatt atataatata gtataatata tatgttatat 1500
 attatata 1508

<210> 118

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(415)

<223> MAR of chromosome 2 genomic contig; 7996866..7997280

<400> 118

caattatata atatacatat tatataattg tataaattat acaatcatat aattatatta 60
 tatataatat acatataata taattatata taattatata attttataat ataattatat 120

SEL PCT 012.ST25

ataattatat aattatatat aatatatatt ataattatat atataatata tatattatat 180
 atattatata taatatataa ataatatata taatatatat ataattatat ataataatat 240
 atgtaatata tataatatat atataatata ttatttataa ttatatatta tatatatatt 300
 ataatatata taattataaa taatatatat tataatatat ataataatat atatataatt 360
 atatataata atatatatta taattatata taataatata tataatttat ataatt 415

<210> 119

<211> 526

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(526)

<223> MAR of chromosome 2 genomic contig; 8300930..8301455

<400> 119

tatatcatat gatataattat acaatatatc atataatatg atatattata tgatatattg 60
 tacaatatat catatgatat atgatatat attacaatata tcatataagg tatatattat 120
 atcatatata atatatataa taatatatga tataatatat gatatatgat atataatata 180
 tgatatatga tatatgatat ataatatatg atatatgata tatgatatat aatatatgat 240
 atatgatata tgatatataa tatatgatat atgatatatg atatgatata tgatatatga 300
 tataatatat gatataatat atgatatata ttatatgata tataatatat gatataattt 360
 atatgatata taatatatga tatataatat ataatatatg atatgatata tattatatca 420
 tatataatat ataatatatt atatgatata tattatatat ttttatatat tatatatata 480
 aactatataa caatatataca tattatgtgt ataatatata ttacat 526

SEL PCT 012.ST25

<210> 120

<211> 402

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(402)

<223> MAR of chromosome 2 genomic contig; 8576553..8576954

<400> 120

atgtatatta tataacaatat agtatatcat atatagtata tattatatag taatgtatta 60

tatataaigt ataagtata aatataaat atatactaca tactatacta ttatatatac 120

tatatattat atagtataca tatactatat aatatgctat atattatact atataatatg 180

ctatatatta tactatataa tatgctatat attatactat ataatatgct atatattata 240

ctatataata tgctatatat tatactatat aatatactat ataatatgct atatattata 300

ctatataata tactatatat tatactatat aatatactat ataacatact atatattata 360

tatgatacat atactatatt acatatataa tatafatata ta 402

<210> 121

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

SEL PCT 012.ST25

<222> (1)..(477)

<223> MAR of chromosome 2 genomic contig; 8785649..8786125

<400> 121

tatttatata tatatttata tatatattta tatatattta tatataiatt tatatatata 60

tttatatata tatttatata ttatatata tatattttta tatatttata tatatattta 120

tatatttata tatatttata ttatatata tatttatata tatttatata tatttatata 180

tatatattta tatatattta tatatatata ttatatata ttatatata ttatatata 240

tatttatata tatatttata tatatattca tatatattta tatatatatt catatatatt 300

tatatatata ttcatatata ttatatata tatttatata tatatttata tatatttata 360

tatatttata tatatattta tatatatatt tatatatata tatttatata tatatttata 420

tatatatatt tatatatata ttatatata tatatttata tatatattta tatatat 477

<210> 122

<211> 773

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(773)

<223> MAR of chromosome 2 genomic contig; 10064737..10065509

<400> 122

atatttatata tattacatat atatttatatt gtatataata tatatattat attgtatata 60

atatatatat tatattgtat ataatatata tatttatattg tatataatat atatattata 120

SEL PCT 012.ST25

ttgtatataa tatattatat tgtatatatt atattgtata tattatattg tataacaatat 180
 atattatatt gtatacaata tatattatat tgtatataat atattatatt gtatataata 240
 tattatattg tatatattat attgtatata atatattata ttgtatataa tatattatat 300
 tgtatatatt atattgtata taatatatta tatgtatata atatagtga tactatatta 360
 tataafatat affatataca atatataata tattgtatat catatatgat atattgtata 420
 taatatataa tatatgatat attgtatata atatattata tatgatatat tgtatattat 480
 atattatata tgatafattg tatattatat affatatatt gatatattga tattatatat 540
 tatatattgt atataaatg ttatatattg tatataatat gttatatatt atatattgta 600
 tatatgttat atattatgta ttgtatataa tatgttatat affatatatt gtatataatg 660
 tattatatat tatafatatt atatattgta tataatgtat tatatattgt atattatata 720
 ttatatattg tatataatat attatataca ttatatata tattatatat tgt 773

<210> 123

<211> 1554

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1554)

<223> MAR of chromosome 2 genomic contig; 1039775..1041328

<400> 123

ataatatatt aaatgtatat ataatatatt aaatataaat atatttataa tatataaata 60
 ttatataaa tataaaatat atattaaata taaatatata faaaatatat attaaatata 120
 taaaatataa atatatatta aatatatatt aaatatataa aatataaata tatattaaat 180

SEL PCT 012.ST25

atatttlaaa tatataaaat ataaatatat attaaatata tttaaatat attaaatata	240
aatatatatt aaatatattt taaatatatt aaatataaat acatatatta aatatatatt	300
atatatataa aatatataaa atataaatat atattaaata tatataaaat atatatgtta	360
aatatafaaa agatatataa aatataaata tatattaaat atatatataaa tatatatata	420
ttaaatatat atattaaata taaatatata taaaatataa atatatgtat taaatatata	480
tattaaatat aaatatatgt attaaatata tattaaatat gaatatatgt attaaatata	540
tattaaatat aaatatatgt attatatata tagaatataa atatatgtat taaatatagt	600
atattaaata taaatatata taaaatatat attaaatatg aatatatata aaatatat	660
attaaaaata tatataatat aaatatatat aaaatatata tattaaaaaat atatatata	720
taaatatata taaaatatat atattaaaaa tatatatataa atatatatat taaaatatata	780
tataaaatat atattattaaa aatatatata aaatatatat attaaaaata tatattaaat	840
ataaatatat atattaaaaa tatattattaa atataactat atattaaata tatattaaat	900
ataactatat attaaatata tattaaatat aactatatat taaatatata ttaaataata	960
ctatatatta aatatatatt aaatataact atattattaaa tatattattaa atataactat	1020
atattaaata tatattaaat ataactatat attaaatata tattaaatat aactatatat	1080
taaatatata tgaaatataa ctatatatta aatatatatt aaatataact atagtattta	1140
aatataaata tatgtcttaa atatatatta aatataaata tatgtattaa atatatatta	1200
aatataaata tgtgtattaa atatatatta aatataaata tgtgtattaa atatatatta	1260
aatataaata tgtgtattaa atatatatta aatataaata tgtgtattaa atatctatat	1320
taaatatataa tatatgtatt aaatatatat taaatatataa tatattattaa atatatatat	1380
taaatatataa tatattattaa atataaatat atattattaaa tatatatatt aaatataaat	1440
atatataaaa tatatatatt aaatataaat ataaatataa aatatatatt aaatataaat	1500
acatatatta aatatatgta ttaaatatat atataaaaata tatgtattaa atat	1554

<210> 124

<211> 650

SEL PCT 012.ST25

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(650)

<223> MAR of chromosome 2 genomic contig; 3944813..3945462

<400> 124

catgalatat tatgtataat atatattata gattacatat aaattatata tataatatat 60

aaattatata tatataatat tatataatat attatatata ttatacaatt atataatata 120

tataatatat aattatataa tatataatat acaattatat aatatataat acaatataat 180

atatatttaa tatattatat aatacatatt taatatatta tatattatat gttatatact 240

aaatatataa tatgtattta atatatacta ttatatatgt aatatattat ataatttatg 300

taacatatata tatattatat atgcaatata ttacatgltta catatatatt acatataata 360

tatgtaatat ataatafaca ctatattatt atagtatata atatactata ttatgtaatt 420

atataatata gtatattata cactatatata tattatcata taattatata ttatatata 480

tattacatat atattatgta atataatag caatatgtta catatataat atatatgtat 540

tatatagtat atatactata gtatatataa aatatatgct ataatatata tttatatat 600

tataataat acatataatgta tcatatatta tatataatat attttataat 650

<210> 125

<211> 441

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(441)

<223> MAR of chromosome 2 genomic contig; 5314265..5314705

<400> 125

tataaatata tatgaaatat atataaatta tatataattt atatatacat atataaatta 60

tatataaatt atatataaat tatatatata tatataaatt atatattata tataaaaattg 120

tatatattta tatataaatt gtatatataa ttatatata aattgtatat ataatttata 180

tatacaatgt atatattaat ttatatatac aittgtatata taatttatat atacattgta 240

tatacaattt atatatacat tgtatatata atttatatat acattgtata tacaatttat 300

atataaatia tattatttat atatagtata tataaatata tatactatat ataaattata 360

tatttattta tatatttat taittatata taaattatat attatttata tatacattat 420

atataaatta tatattattt a 441

<210> 126

<211> 1169

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1169)

<223> MAR of chromosome 2 genomic contig; 5953971..5955139

<400> 126

SEL PCT 012.ST25

atgiattcat attatatt tatataaaa taatatat tcatattata tatttatata 60

taaataatat atattcatat tatatattta tatataaata tataatatat ttatgtataa 120

ataatatata tattcatatt atatatttct atataaataa tatatatatt catattatat 180

atttatatat aaatatataa tatatttata tataaatata taatatatt atafataata 240

tatatattca tatttatatat ttatatataa atafataata tatttatata taaataatat 300

atatattcat attatatt tatataaaa taatatatat tcatattata tatttatata 360

taaataatat atattcatat tatataclta tatataaata atatatattc atattatata 420

cttatatata aatatatat attcatatta tatatttata taaaaataat atatattcat 480

atttatatt tatatataat atatatattc atattatata ttatatatt ctatatattc 540

atattatata ttatatata aataatgtat attcatatta tatatttata tataaataat 600

gtatattcat attatatt tatataaaa tatatattca tatttatatat ttatatataa 660

atatatattc atattatata ttatatata aatatatt catattatat atttatataa 720

aatatatata ttcatattat atttatatat aaatatatat attcatatat atatttatat 780

ataatatata tattcatatt atatatttat atataatata tatattcata ttatatattt 840

atatataaat aatatatata ttcatattat atatttatat ataaataatg tatattcata 900

ttatatatt atataaaat aatgtatatt catattatat atttatatat aaatatatat 960

attcatatta tatatttga tataaatata tattcatatt atatatttgt atatatattc 1020

atatatattt atataaaat atataatatt catatttat ataaatatat atattcatat 1080

tatatattta tatatafaaa taatatatat tcatattatt tatatatata aatatatat 1140

attcatatta ttatatata taaataata 1169

<210> 127

<211> 653

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(653)

<223> MAR of chromosome 2 genomic contig; 6427669..6428321

<400> 127

tatatatgta tacatatatg tatatatgtg tatatatgta tacatatatg tatatatgtg 60
 tatatatgta tacatatatg tatatatgtg tatatatgta tacatatatg tatatatgtg 120
 tatatatgta tacatatatg tatatatgtg tatatatgta tacatatatg tatatatgtg 180
 tatatatgta tacatatatg tatatatgtg tatatatgta tacatatatg tatacatgtg 240
 tacatgtgta tacatatatg tatacatgtg tacatgtgta tacatatatg tatacatgtg 300
 tacatgtgta tacatatatg tatatatgtg tatacatata tgtatatatg tgtatatatg 360
 tatacatata tgtatataag tgtatataatg tgtatatgta tataagtgta tatatgtgta 420
 tatgtatata agtgtatata tgtgtatatg tatataagtg tatatatgtg tatatatgta 480
 tacatatatg tatatatgtg tatatatgtg tatatgtata taagtgtata tatgtgtata 540
 tatgtatata tatatatgtg tatatatgta tacatatatg tatatatgtg tatatatgta 600
 tacatatatg taaataitgtg tatatatgtg tatatgtata taagtgtata tat 653

<210> 128

<211> 414

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(414)

SEL PCT 012.ST25

<223> MAR of chromosome 2 genomic contig; 10890453..10890866

<400> 128

```
tatattttgt aaatatatat atagtaaata tatgtaaata tatatatttt gtaaatatat   60
atatattttg taaatatatg taaatatata tattttgtaa atatatgtaa atatatatat   120
tttgtaaata taigttaaata tatatatttt gtaaatatat gtaaatatat atattttgta   180
aatataigta aatatatata ttttgtaaata ttatgtaaat atatatattt tgtaaatatata  240
tgtaaatatata tatatatttt gtaaatatat atacatatat attttgtaaa tatataaaca   300
tatatatttt ataaatatat ttataaatat atatatgtta aatatattta taaatatatt   360
tataatatat atattgtaaa tatgtttata aatatatata ttgtatatat aaat         414
```

<210> 129

<211> 496

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(496)

<223> MAR of chromosome 2 genomic contig; 13952568..13953063

<400> 129

```
taatatatat attatatatt atatatgtta tatataatat acatatata tattatatat   60
tgtatatata atatacatat tatatattat atattgtata tataatatata atattatata   120
ttatatattg tatatataat atacatatata tatattatat attgtatata taatatatat   180
attatatatt atatatgtta tatataatat acatatata tattatatat tgtatatata   240
```

SEL PCT 012.ST25

atatacatat tatatattat atattgtata tataatatac atattatata ttatatattg 300
 tatatataat atacatatta tatattataf attgtatafa taatatacat attatatatt 360
 atatatigta tatataatat acatattata tattatataf tgtatatata atatacatat 420
 tatatattat atattgtata tataatatac atattatata ttatatattg tatatataat 480
 atacatatta tatatt 496

<210> 130

<211> 317

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(317)

<223> MAR of chromosome 2 genomic contig; 16942865..16943181

<400> 130

tctcctagta gttatatata tatatatgtg tatatatata tctcctagta gatatatata 60
 tatatatatc cttagtagata tatatatata tatatcctag tagatatata tatatatata 120
 tcttagtagt tatatatata tatatatcct aacagttata tatatatata tcttagtagt 180
 tatatatata tatatcctag tagttatata tatatatata tcttagtagt tatatatata 240
 tatatcctag tagttatata tatatatatc cttagtagta tatatatata ttatatatta 300
 tataatatat atataat 317

<210> 131

<211> 464

<212> DNA

SEL PCT 012.ST25

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(464)

<223> MAR of chromosome 2 genomic contig; 17217049..17217512

<400> 131

acatactata taatacacata tactatatat actatatata gtatatagta tacatatact 60

atacatatac atatactata catatacata tacatatact aagtatacgt atatacagta 120

catagtatat gtatactata tagtatgtat atatagcata tagtatgcgt atactctata 180

tagcatatag tatgcatata cgctatatag catatagtat gcatatacta tatatagtat 240

agagtaigcg tatactatat atatagtata gagtatgcgt atactatata tatagtatag 300

agtatgcgta tactatatat atagtataga gtatgcgtat actatatata tagtatagag 360

tatgcgtata ctatatatat agtatagagt atgcgtatac tatatatata gtatagagta 420

tgcgataact atatatatag tafagagtat gtatatatat agta 464

<210> 132

<211> 430

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(430)

<223> MAR of chromosome 2 genomic contig; 19647266..19647695

SEL PCT 012.ST25

<400> 132

tgtaaataata tgtaaataata taattatatt atatatata taaaaataata atataata 60

tataatataat aaactatata ttaatafaat atatafaaac tattatataa atacatatta 120

aatatattat attttaata ttatatatt aaatataata tatattfaat atttatatat 180

taaatatata atatatataa taattatata atatatagca taatttatat ttatatata 240

tataacattt tatatttata ttatatatta tatatatatta atttatatt atattatatt 300

tatatattata ttatatataa cataattata tatattttca taatttatat aataaagaaa 360

tgtatatattg ttatatataa tatatatatt ataatattt atatatata taatatatat 420

tatataatat 430

<210> 133

<211> 2131

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(2131)

<223> MAR of chromosome 2 genomic contig; 20481223..20483353

<400> 133

tatatataaa tatatttata ttaatatat atttatataa atatatattt atataaatat 60

atatttaata taaatatctt tatattfaat atatatffaa tataaatatc ttatatatta 120

atatatatatt atatataaat atatatatt atttaatatattaatatt taatatatcgt 180

ttatatffaa tatatatffc tatataaata tatttatatt aacatatatt tatatatataa 240

SEL PCT 012.ST25

tatafftata ttaatatat ttacatatata atatatttat atgtaatat ttacatatata	300
aatatattta tatttaatat atagcatat gtaatatat ttatatftaa taatatftat	360
atataaatat atttatattt aataatattt atatataaat atatttatat ttaatatata	420
ttaaatatat atttatattt aatatatatt aataittaat atatatttat atttaatatata	480
tatttatata aaacatatat ttatatftaa tatatatatt atataaacat atatttatat	540
ttatatata ttatatataa acatatattt atatttaata tatatttata ttaatatata	600
tatatataaa catatatfta tatttaatat atatttatat taaatatata ttatatataa	660
acatatattt atatttaata tatatttata ttaatatat atttatattt aatatatata	720
tattaaatat atatttatat ttaatatata ttatatftaa atatatatft atatttaata	780
tatttatatt taatatatat ttatatftaa tatatatftaa atatttaata tatatttata	840
ttatatatat acatatatat ttatatftaa tatatacata tatatttata ttaatatat	900
acatatatat ttatatftaa tatatacata tatatttata ttaatatat aaatttatat	960
ttatatata taaaaatat tatttatatt taatatatat aaatatatat ttatatftaa	1020
tatatatatt tatattgaat atatacataa atatatatft atatttaata tataaacata	1080
tatttatatt tatatatftaa atatatatft atatttaata tataaatata tatttatatt	1140
taatatattt atatatataa atatatttat atttaatat ttatatata gatatatfta	1200
tatttaatat atttatgtgt attaatatat ttatatftaa tatatttata tatttaatat	1260
ttatatattt atatttatat attaatatat ttatatfta tatttatatt ttatatattt	1320
atatattaat atatttatat ttatatatat ttatatatat taataaattt atattttata	1380
tatttatata ttaataaatt tatattttat acagttatat aaatatattt atattttata	1440
cagttatat aatatattfta tattttatag ttatatataat atatttatat ttatacagt	1500
tatatataata tatttatatt ttatacagtt atataaatat atttatattt tatacagfta	1560
tataaatata ttatatattt atacagttat ataaatatat ttatatfta tacagttata	1620
taaatatatt tatattttat acagttatat aaatatattt atattttata cagttatat	1680
aatatattfta tattttatag agttatatata atatatttat attttatata gttatatata	1740

SEL PCT 012.ST25

tatatttatg tttatacat ttatataaat atatttatat ttatacatt tgtatttaaat 1800
 atatatttat atataaatat attttatatt taatataatt atataaaat atatattgat 1860
 atttaatatata tatttatata taaatatata ttgatattta atagtattat atataaatat 1920
 atatttatat ttaatatata tgtttatata tcaatatata ttatatatta atatatttt 1980
 acatataaat atatatttat attgatata tatttatatt tgatatatat ttatatata 2040
 ttaatatatt tacatttgat atatatatta tatatatata tatatttaca ttgatatat 2100
 attttatata tattaatat ttacatttg a 2131

<210> 134

<211> 842

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(842)

<223> MAR of chromosome 2 genomic contig; 20483478..20484319

<400> 134

tatatattta tgtttaatat atatttatag ataaatatat atttacgttt aatatatatt 60
 tatagataaa tatatatatta cgtttaatat atatttatct ataaatatat ttacgtttaa 120
 tatatatatta tatattaata tatttatggt taatatatat ttatatatat taatatattt 180
 atgtttaata tatatttata tattaatat ttatgttta atatatttat atatattaat 240
 atatttatgt ttaatatata ttatatggt aatatattta ggtatatata tatttatatg 300
 ttaatatata ttatatataa tatatttat ttatatataa aagtatatat aatatataaa 360
 tatttatataa attatttat agtattttta tatatatatta tatataaatt ttatatattt 420

SEL PCT 012.ST25

tatatatata aatatatatt tatatatata tttatatat aaatatatat ttatatatac 480
 attatatata taaatatata tatttatatt ttatatataa atatatatat ttatatatac 540
 atttatatata tttatatat gtaaatatat atataaattt tatatatgtt atatataatt 600
 ataaatttta tatatatatt tatatatata atatatatata tatatatataa tttatatat 660
 attatatata ttatatttt atatattata ttttatttta tatatattta tatgttatat 720
 atatttatat ttatatttt ttttatttta tatattttat atatataatt atatatgtat 780
 attatatata ttatatatta taaatatat tataiatatt atattatata tttatattat 840
 at 842

<210> 135

<211> 645

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(645)

<223> MAR of chromosome 2 genomic contig; 20897566..20898210

<400> 135

gtatatttt attatatatt atataatata tattatatat taataaatta tatataatat 60
 aatatatatg tatatttata ttatgttat aatatacata taattatata tgtatgtata 120
 catgtatata tatacgtata tgtgtatatg tatacatata ggtatatgtg tacatgtata 180
 catataggta tatgtatatg tatacatgta tacatataat ataattacat atgtatgtat 240
 acatacatat gtaattatat tatatatgta tatgtatatt tatataatat ataatatgta 300
 ttatatatta tacatgcata tttatatgta tattatatat acacatatata tataattata 360

SEL PCT 012.ST25

tatgtatgta tatatacaca tatatatatta tattatataat gtatattata tacatatatt 420

tatattatat atgtatatat atttatcata ttatatgta atatgcatgt gtaataaata 480

atatacacat ttatatatgt atattatata catatatatta tattgtatat gtatatatat 540

ttatatatat ttgtatatca tatatttata tattgtatat ttatgtatat tatatatatta 600

tatattatat atgtattata taatatatat gtaaatatat attat 645

<210> 136

<211> 722

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(722)

<223> MAR of chromosome 2 genomic contig; 21664541..21665262

<400> 136

tataatatat attatattct atataatag taaaatataf altatattct atataatgta 60

ttatatatag aatataatat attctaigta ttctataatc tatataatac atattatata 120

ttatatagaa tattataaat aatatattct atattatata tagaatatat tctatatgtt 180

tatattctat atattatata tgaaatagta tataaaatat atataatata tataaaatat 240

gatatataat atatatataaa taatatataa tgtataatat ataaaataat atataatgta 300

taatatataa aataatatat aatgtataat atataaaata atatatatg tatattatat 360

aaaataatat ataatgtata ttatatataa aataatatat aatgtatatt atatatataaa 420

taatatataa tgtatatataa ataatatata atatatata tataaaataa tatataatat 480

attatatata aaataatata tattatatat aaaataatat ataatatatt atatatataaa 540

SEL PCT 012.ST25

taatatatat tatatatataa ataatatata atattatata tataaataa tatatattat 600
 atataaaata atatatatta tatataaaat aatataatat atattatata taaaataata 660
 tataatatat tatataaaaa tataaatata ttatataaaa atataaaata taaaatatta 720
 ca 722

<210> 137

<211> 305

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(305)

<223> MAR of chromosome 2 genomic contig; 22834991..22835295

<400> 137

aatataaaat atatgataa taatacgtat tatatatgta taatacgtat tatatattaa 60
 tatataatat ataatacata ttatatatgt atataatata tactaatata tataatgtat 120
 acattatata ttacataat atataatata taatatagaa ttataattat atataatata 180
 taatatataa ttatatatat tattatatat gtatttatat tatatataat atattatata 240
 taatatatat tatataaata tataagtata taattatgtt atatacataa taatatataa 300
 tatat 305

<210> 138

<211> 352

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(352)

<223> MAR of chromosome 2 genomic contig; 25277762..25278113

<400> 138

taatatatat aatatattat atattatata taatatattt tataatatat aaaatatatt 60

atatataata tataatatat ttataatat atataatata ttatatataa tatataatat 120

attttataat atataataa tattaatat attatatatt tatatttatt tatataattca 180

taaatatata ttatatata atatatatta taatatatta tatataatat ataatatatt 240

ttataatata ttataatata taatatataa tatattttat aatatatata atataataa 300

tattatatat ttatatttat ttatatattc ataaatatat atatttatat ta 352

<210> 139

<211> 342

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(342)

<223> MAR of chromosome 2 genomic contig; 25378452..25378793

<400> 139

tatgtacata tatattttat atattatata taatatatat tatatgatat atataatata 60

SEL PCT 012.ST25

ttatataata taatatataa aatatatata atatatatta tattatataa attatattat 120
 atatatcata taataiatatt tatataattat ataatatata ttatattata tatattttat 180
 atattatatt atatatata tataicatat aatatatatt atattatata ttttatatat 240
 ta tataatat atattatata tttttatata ttatataata tatattatat attttatata 300
 ttatataata catatattat atataatata atatatatta ta 342

<210> 140

<211> 663

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(663)

<223> MAR of chromosome 2 genomic contig; 30209437..30210099

<400> 140

aatatataatt acatatgtga tatatagtat atgtaagtga tataatatag tatattctat 60
 attgtataat agtaatatat agtatatgat atactatata ttacttatca tatatacaat 120
 atatatataa tggatatattg tatattatat attgtatata tgtaatatat gatattgtaca 180
 tatgttatat atgtatataa tatactatat tatatatigt atattatata catatataac 240
 actattatac aatatataat atagcatatt atatacaata tagcatatac aatatataat 300
 atagcatatt atataataa tagtatatta tatacaatat ataatatagc atattatata 360
 taatatataa tagtatatta tatacaatat ataatatagc atatacaata tagtatataa 420
 tatataatat agcatatata atatatataa tatataatat agcatgtaca 480
 atatatgtatg ttatatataa tatataatat agcatatata atatatataa 540

SEL PCT 012.ST25

tatataatat agcatatata atatattata ttatatacaa tatataatat agcatatata 600

atatagtata ttatatacaa tatataatac agcatatata atatagtata ttacatacag 660

tat 663

<210> 141

<211> 1200

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1200)

<223> MAR of chromosome 2 genomic contig; 31725089..31726288

<400> 141

tgtacttata tattataatg tatatataaa gtatatactt tatatatact tatataattat 60

aatgtatatt attgtatata agtatataac ataatatata cttacatatg ctcacatata 120

ttataatgta tattgtatat attatataca tattatatat gtataatgta tatatacatt 180

atatatgtat aatgtatata tacattatat atgtataatg tatatataca ttatatatgt 240

ataatgtata taatatatac aatatatgta taatatataa tatatacaat atatgtataa 300

tatacaatat atgtataata tacaatatat gtatagtata taatatatat tatatatgta 360

tagtatatta tatattatat atgtatagla tataatatgt ataagtata tattataata 420

tattatatat aatatctata acaatataat atattgtata tattatatat aatatatatt 480

tatataatat atattatata taatatatta tgtatttatt tatattatat ataataataa 540

tatatataat ataaataata ttattatat attaatataa atatttatat taatatatat 600

ttattatata taaataatat ctatgatata aataatatat aatatacatg tatatgttat 660

SEL PCT 012.ST25

aatatataca tataatatac atgtgtatat atactataca tgtatatata acatgtatat 720
 atatacatgt atatatatta tgtatacatg tatagtatat atacatgtat atatatacat 780
 atatactata caigtatata tacatgtata tatatacata tatactatac atgtatatat 840
 acatgtatat atacacatat atactataca tgtatatata catgtatata tatacatgta 900
 tggtatatac attattataa tatacatata tagtatacat tatatacatt atataatag 960
 cattattata atataatata cattattata atatacatta ttataatata atatacatta 1020
 ttataatata cattattata atatacatta taataatata cattattata atatacatta 1080
 taatattgaa gtatatatac tataatatat gtatatatta taatgtatat aatatacatt 1140
 attatatata agtatgtatt atataaagt atatattata atatatgtat atacatatat 1200

<210> 142

<211> 325

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(325)

<223> MAR of chromosome 2 genomic contig; 32147252..32147576

<400> 142

aaatacaaat attattttat atataatata taatataata tatttattta tatataatat 60
 ataatttata attatatataa tatataatat atttatatat aatatataat ttattatat 120
 attaattata tatataataa atatatataa tatataattt tatttatatat taattatata 180
 tataataaat atatatataa tataataata ttatatatat tatatatataa tataaatatt 240
 tatataatat ataataaat atatttattt atatatataa atataatata taattatata 300

aatatataat atatttatat ataac

325

<210> 143

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(507)

<223> MAR of chromosome 2 genomic contig; 32312662..32313168

<400> 143

attatttata taaatattat atttatatta ttatataaaa tatttatatt atattattta 60

tataaatatt atatttatat tatttatata aatattatat ttatattatt tatataaata 120

ttatatttat attatttata taaatattat atttatatta ttatataaaa tatttatatt 180

atattattta tataaatatt atatttatat tatttatata aatattatat ttatattatt 240

tatataaata ttatatttat attatttata taaatattta ttatattat ttatataaat 300

attatattta tatiatttat ataaatatt atttatatta ttatataaaa tatttatatta 360

tatttatata aataatatat aaataaatat ttataatga tataaatatt atttatatta 420

ttattttaa taaataatat aaattaatat aaatattaat attatttatt ttattataaa 480

taatatataat attatattta tatttat

507

<210> 144

<211> 339

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(339)

<223> MAR of chromosome 2 genomic contig; 33651118..33651456

<400> 144

aaatataata tattatttat atataatata aatgatatat tatgtatata taaaatataa 60

ataatatatt atgtatatat aaaatataaa tattatttat atataaaata taaataatat 120

ttatatataa aatataaata ttatatatt tatatataaa atataaataa tatattattt 180

atatataaaa taiaaataat atattattta tatataaata atatataaaa tataaatata 240

tattatatat aaataaaata tatatattat atatataaat ttatatataa tatataaaat 300

ataatatata tatttaatat ttattatata atatataat 339

<210> 145

<211> 461

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(461)

<223> MAR of chromosome 2 genomic contig; 45073053..45073513

<400> 145

tggtatata tatatacgtg tacatatata tatatacatg tgtatatata tacgtgtaca 60

SEL PCT 012.ST25

tatacatata tacatgtgta tatatatgta catatacata tatacatgtg tatacataca 120
 tatatacatg tacatataca tatatacatg tgtatacata catatataca tgtacatata 180
 catatataca tgtgtatact tacatatata catgtacata facatatata catgtgtata 240
 tatacatata tacacgtaca tatatacata facatgtaca tatatacatg tatacatata 300
 tacatgtaca tatgtacaia tatatacatgta facatatata catgtacata tgtacatata 360
 tacatgtata catatataca tgtacatatg facatatata catgtataca tatatacata 420
 tgtacatacg cacagataga catatataca tatgtacata c 461

<210> 146

<211> 1162

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1162)

<223> MAR of chromosome 2 genomic contig; 45487691..45488852

<400> 146

attatattat ctatataaat ctattatatac tattatatta tctatataat atctattata 60
 tatattatat tatctatata aatctattat atatattata ttatctatat aaatctatta 120
 tatatattat attatctata tatctattat atattatatt atattatatt atatafaata 180
 tctattatat atattatatt atattatatt atatafaata tctattatat atattatatt 240
 atctatataa tatctattat atattatata ttatattata tataatatct attatatata 300
 ttatattata ttatataaa tatctattat atctattata tatattatat atatctatta 360
 tatctattat atatattata tataatatct attatatcta ttatatatat tatatataat 420

SEL PCT 012.ST25

atctattata tctattatat tatattatat ataatatcta ttatatctat tatatatatt 480
 atatatatct attatatcta ttatatatat tatatataat atctattata tctattatat 540
 atattatata taatatctat tatatctatt atatattata tatataatat ctattatata 600
 tattatatat tatatatata atatctatta tatctattat atctattata tatatatcta 660
 ttatatctat tatatatatt atatacataa tatctattat atctattata tatattatat 720
 atataatac tattatatct attatatata tactatctat tatatctatt atatatatta 780
 tatatgtact atctattata tctattatat ctattatata tatactatct attatatcta 840
 ttatatatat tatatatata ctatctatta tatctattat atatattata tatatactat 900
 ctattatata tctattatat atattatttt atattatata tagtatctat tacatatatt 960
 atattatatt atatataata tctattatat atattatat atattataaa taatatatat 1020
 aatatctglt atatataata gatattatat ataatatata atatatataa tagatattat 1080
 atatattata ttatataata tataatatat aatataatta atataaaaata tatataatat 1140
 ataattaata taatatgtaa ta 1162

<210> 147

<211> 562

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(562)

<223> MAR of chromosome 2 genomic contig; 45516233..45516794

<400> 147

acatattata tatattatat ataatatata ttatatatac atattatata tattatatat 60

SEL PCT 012.ST25

aatatatatt atatatacat attatatata ttatatatac atatatatat tttatatat 120
 atatacatat tatatatatt atatatacat attatatatt atatataata tatacatatt 180
 atatattata tataaatatt atatattata tataaatatt atatataata atattatata 240
 ttatatataa atattatata tttatatat aaatataata tataatatat ataatttta 300
 tatatttat ataatatta tatatttat ataatttat atataatata taaatatata 360
 tattatataa atattgata tattatataa atattatata tattatatat aaatattata 420
 tatatttat aaatatatat aaatatataa aatatataaa tatgtaaaat ttattttat 480
 aaatatataa tataaatata taaatataaa tataaattat atataatata taatatatta 540
 tacataatat atactatata ta 562

<210> 148

<211> 801

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(801)

<223> MAR of chromosome 2 genomic contig; 45727251..45728051

<400> 148

atatatatat ataatatata catatataga atatatatat tatttatatt tatatataga 60
 atatatatat agaatatata tatatagaat atatatatag aatatatata tagaatatat 120
 atatagaata tatatataga atatatatat atagaatata tatatagaat atatatatat 180
 agaatatata tatatagaat atatatatat agaatatata tatatagaat atatatatag 240
 aatatatata tagaatatat atatatagaa tatatatata gaatatatat atatagaata 300

SEL PCT 012.ST25

tatatataga atatatatat atagaatata tatatagaat atatatatat agaatatata 360
 tatagaatat atatatatag aatatatata tagaatatat atatatagaa tatatatata 420
 gaatatatat atatagaata tatatataga atatatatat atagaatata tatatagaat 480
 atatatatat agaatatata tatagaatat atatatatag aatatatata tagaatatat 540
 atatatagaa tatatatata gaatatatat atatagaata tatatataga atatatatat 600
 atagaatata tatatagaat atatatatat agtatatata gaatatatat atatagtata 660
 tatagaatat atatatatag aatatatata tagaatatat atatatagaa tatatatata 720
 gaatatatat atatagaata tatatataga atatatatat atatagaata tatatataga 780
 atatatatat atatatagaa t 801

<210> 149

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(346)

<223> MAR of chromosome 2 genomic contig; 50937238..50937583

<400> 149

taaaattata tatattatat ataatatata atatattata tataatatat attataatat 60
 atataatat tattatataa aatatattct atagaatata tattctatta tataatatat 120
 attctattat aatatatatt atatataata tatattctat tataatatat attatatata 180
 atatattcta ttatgatata tattatatat aataacatat attatatata atatatttc 240
 tattatataa aatatatatt atataaaata tatattctat tatataaaat atatattata 300

SEL PCT 012.ST25

taaaatatat attatattat ataaaatata tattatacta tatata 346

<210> 150

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(462)

<223> MAR of chromosome 2 genomic contig; 55672627..55673088

<400> 150

taaatatata ttatatatta tattatatat aatatattta tatttatata tactataatt 60

tatatataat atatattata tatataatat atttataata tatatcatat aaataatata 120

tatttataat atatatcata taaataatat atatttataa tagatatcat ataaataata 180

tatatttata atagatatca tataaataat atatatttat aatagatatc atataaataa 240

tatatattta taatagatat catataaata atatatatft ataatatata tcatalaaat 300

aatatatatt tataatatat atcatataaa taatatatat ttataatata tatcatataa 360

ataatatata ttataatag atatcatata aatatatat atttataata gatatcatat 420

aaataatata tatttataat agatatcata taaataatat at 462

<210> 151

<211> 401

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(401)

<223> MAR of chromosome 2 genomic contig; 56081352..56081752

<400> 151

```
tatacatgta tgtattcgta tatgtatgtt atatatgtat atgtgttata tacatatata    60
tatatacatg tatatgtgtt atatacatat acatatatac atgtatatgt gttatatata    120
tatacatata tacatgtata tgtgttatat acatatatat atatacatgt atatgtgtta    180
tatacatgtg tatgtgtata tgttatatata catatatgtg tatgtgcatg tgtatatata    240
catataigta tatgtgtata tgttatatata catatatgta tatgtgtatg tgtatacgta    300
tatatacata tatgtgtatg tgtatgtgta tacgtatata tatatatata tgtgtatgtg    360
tatacgtaca tatacatata tgtgtatgtg tatacgtaca t                                401
```

<210> 152

<211> 765

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(765)

<223> MAR of chromosome 2 genomic contig; 56404208..56404972

<400> 152

```
tataattat aaagaatata tattatataa tatgtaaaga atatatatta tataatatgt    60
```

SEL PCT 012.ST25

aaagaatata tattatata tatgtaaaga atatatatta tatataatat ataaagaata 120
 tatattatat aatatataaa gaatatatat tatatattat ataaagaata tatattatat 180
 ataatatata aagaatatat aatatataat atataaagaa tatatattat atataatata 240
 taaagaatat atattatata taatatataa agaatatata ttatatatta tataaagaat 300
 acatatatat aatatataaa gaatatatat tatatataat atataaagaa tatatattat 360
 atataatata taaagaatat atattatata taatatataa agaatatata ttatatataa 420
 tatataaaga atatatatta tatataatat ataaagaata tatattatat atattatata 480
 aagaatatta tatattatat aaagaatata taitatatat aatatataaa gaataaacat 540
 atatactata tataaagaat atacattata tatactatat ataaagaata tacattatat 600
 atactatata taaagaatat atataatata taaagaatat acattatata taatatataa 660
 agaatatatt atatatata taaagaatac attataatat aaagaatata ttatatataa 720
 tataaagaat acattataat atataaagaa tatatataat atata 765

<210> 153

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(443)

<223> MAR of chromosome 2 genomic contig; 61953416..61953858

<400> 153

tttatatatt atagataaaa ttatatata ttacatgtaa tatataatat gtaaaatata 60
 ttatattaca tatataatat ataatatgta aaatatatta tattacatat ataatatata 120

SEL PCT 012.ST25

atatgtaaaa tatattatat tacatatata atataaaata ttacatatata tataatttac 180
 ataaatatat attatctatt acatatittat tatatgtaat aatatgtaca tatgtataaa 240
 tatgtatata ttatatacata tgtatatatt atatatatat atatatgtat atattatata 300
 tacatatata tgtatatatt atattatata tacatatata tgtatatatt atattatata 360
 tacatatata tgtatatatt atattatata tacatatata tgtatatata ttataaatat 420
 gtataataaa gatttatatg taa 443

<210> 154

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(372)

<223> MAR of chromosome 2 genomic contig; 62076211..62076582

<400> 154

tatatataat tatatatgta attatataac agtatatatata attatatata attatcaata 60
 tatataaatta tatataaatta tcaatatata taattatcaa tagatatata taattatata 120
 tataaattata tataaattata tatcagtata tataactata taattatata tatgtatata 180
 taattatag tatataaattat ctataagtat atataactat aatatataac aattatatat 240
 acttatgtat aattatatat actgatatat aattatatacat aattatatat atcaattata 300
 tataaattag tataaattata tatacatata tataaattata tatataaatt atatgtaatt 360
 atataaattac ac 372

<210> 155

SEL PCT 012.ST25

<211> 484

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(484)

<223> MAR of chromosome 2 genomic contig; 62158581..62159064

<400> 155

attatata atataaaat tacaatatt atttattat atattatata cataatatat 60

atattcata tataatata attatata atataaaata tatattatgt ataattatat 120

ataaaatata ttatataatt atataaaca taaaatata ataatatata attatata 180

atataaaata tatataaat ataaaatata tattatatgt aattataiat aatataaaat 240

atatatataa tataaaatat atattatata taattataat ataaaatata tattatatag 300

tatatattat ataaaatata tattatatat aattatatat tatataaaat atatattata 360

tataattata taatataaaa tatatatgt atataattat atataatata aatatatat 420

aatatatgaa ataagatata tactatatat aatatatata attacatat aagatatata 480

tcatt 484

<210> 156

<211> 644

<212> DNA

<213> Homo sapiens

<220>

SEL PCT 012.ST25

<221> misc_binding

<222> (1)..(644)

<223> MAR of chromosome 2 genomic contig; 68145036..68145679

<400> 156

```
tatatatatg ctaatatatg taatatatat tatatatatg ctaatatata tatgctaata   60
tataatatat attatatata aatatataat atatatattat ataaatatat aatatattat  120
atataaatat ataataaaaa tatataaat atatactata ttatatatta tgtataacat   180
ataatacata ttgttatat ataatatata tattatatgt tatatatatt atattatata   240
taataataca atatatatta tatattatat gttatatatt atatattata tataatataa   300
cataatatat aatatatatt atattatata ttacatatat tagcaatatt atatataaaa   360
tatatataat atataaaaaa tatatataaa aatataaaat atatatcaaa atataaacta   420
tataatatat aaaaatatat tatatataat atataaaaat ataaactata taatatataa   480
aaatatatta tatataatat ataaaaatat attatatatt atatatataaa atatattata   540
tataatatat aaaaatatat ataaaatata aaaaatatat ataaaatata aaaaatatat   600
aaaataatat aaaatatata atatatataa atataatata taat                      644
```

<210> 157

<211> 530

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(530)

<223> MAR of chromosome 2 genomic contig; 71257289..71257818

SEL PCT 012.ST25

<400> 157

atatctatta tatttatata ctttatataa attatatcta ttatatltat atactttata 60

taaatiatai ctatttatatt tatatacttt atataaatta tatctattat atttatatac 120

tttatataaa ttatatctat tatatttata tactttatat aaattatatac tatttatatt 180

atatacttta tataaafata taatttatatt tatatacttt atataaatat aattataaat 240

atatttatat actttatata aatataatta taaatataatt tatatacttt atataaatat 300

aattataaat atatttatat actttatata aatataatta taaatataatt tatatacttt 360

ataattatat gttatattta taatttatatt tatataattc ataattatat acattatgtt 420

tatagtata taatttataa ttatatacat tatatttata ttatataat ttataaattat 480

ataaattata taaattatat aaattatctt taatttatat tatataatct 530

<210> 158

<211> 337

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(337)

<223> MAR of chromosome 2 genomic contig; 73413615..73413951

<400> 158

acttatatta tatataacta tatttatgta tattaatata aattaatgat atataatata 60

ttaattatat attatttatat gtgatataaa afacttatat ttatactgta tatatgtata 120

tacacacata tatgtatata tgtatatata cacatatgta tatatgtata tgtatatatg 180

SEL PCT 012.ST25

tatactgtat atatgtatat acacacatat atgtatatat gtatatgtat atatgtatac 240

tgtatatatg tatatacata tatacatata tgatatatat cacatatatg tgatatataa 300

atatatttat ataaatataa tattaatatt tatatta 337

<210> 159

<211> 1340

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1340)

<223> MAR of chromosome 2 genomic contig; 77011049..77012388

<400> 159

atgtatttta tatagtatat attatgtatt atattgatat aattatataa caattatlla 60

tatataaaat aacaaataaa tatataaaat aataaatata tatitattat taaataataa 120

atatataatt attattaaat aataaatata taaagtaata aatatatatt tatatatata 180

ataattcata tatatttata tatlaaataa ttcatatata tttaaataat taatacatat 240

ttaaataatt aatatatatt tatataatat atatttatat attaaataat taatatatat 300

ttatagatta aattaatata tatttatata tttaaataaa tttaatatat tatatatlla 360

tataatttaa attaataat ttatataatt taattlaatt taatataatt aaaatatatt 420

aaacattata taatatataa tatattlaatt atataatata tatttaatat ataatafatt 480

taatataata tatattlaatt atataatata tatttaatat ataatatatt taatatataa 540

tatatllaatt atataatata tatttaatat ataatatatt taatatataa tatatatlla 600

atatataata tatttaatat ataatatata tttaatatat aatatattta atatataata 660

SEL PCT 012.ST25

tatattlaa gtataatata ttaatatat aatatataa taatgtataa tatattlaa 720
 atataatata tatttgatgt ataatatatt taatatatat ttgatgtata atatatlaa 780
 tatataatat atattgatg tataatatat ttaatatata atatatatt gatgtataa 840
 atattlaa tataatatat attgatgtata taatatatt aatatataa atatatga 900
 tgtataatat atttaatat taatatatat ttgatgtata atatatlaa tatataatat 960
 atattgatg tataatatat ttaatatata atatatatt gatgtataa atattlaa 1020
 tataatatat attgatata taatatatt aatatataa atatatga tatattla 1080
 atataata tatattgat atataatat ttaatatat aatatataa tgatatataa 1140
 tatattlaa atataatat tattgatata ataatatatt taatatataa tatatttg 1200
 atataata tatttaatat ataatatata ttgatatat aatatatta atataata 1260
 tatattgat atataatat ttttatt aattattat atataatata taaatatata 1320
 ttaattaatt atatatataa 1340

<210> 160

<211> 937

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(937)

<223> MAR of chromosome 2 genomic contig; 78226855..78227791

<400> 160

tgtgtatata tacatatatg tgtatctatg tgtatatata catatgtgta tatatacata 60

tatgtgtata tatacatatg tgtatatatg tgtatatatg tgtatatata catatatgig 120

SEL PCT 012.ST25

tatatatgtg tatatatgtg tatatataca tatatgtgta tatatgtgta tatatacata	180
tgigtatata tgigtatata tacatatatg tgtatatatg tgtatatata catatatgtg	240
tatatatgtg tatatataca tatatgtgta tatatgtgta tatatgtgta tatatacata	300
tatgtgtata tatgtgtata tatacatata tgtgtatata tgigtatata tacatatatg	360
tgtatatatg tgtatatgtg tgtatatata catatatgtg tatatacaca catatatgtg	420
tatatatgtg tatatataca tatatgtata tatacatata tgtgtatata tgtgtatata	480
tacatatatg tgtatatatg tgtatatata catatatgtg tatacataca tatatgtgta	540
tatatgtgta tatatacata tatgtgtata catacatata tgtgtatata tgtgtatata	600
tacatatatg tgtatatacat catatatgtg tgtatatgtg tatacataca tatatgtgtg	660
tatatatgtg tatacatatg tgtgtatatg tgtatatata catatatgtg tgtatatatg	720
tgtatatata catatatgtg tgtatatatg tgtatatata catatatgtg tgtatatatg	780
tgtatatata catatatgtg tgtatatatg tgtatatata catatatgtg tgtatatatg	840
tgtatatata catatatgtg tgtatatatg tgtatatata catatatgtg tgtatatatg	900
tgtatatata catatatgtg tgtatatatg tgtatat	937

<210> 161

<211> 1350

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1350)

<223> MAR of chromosome 2 genomic contig; 79287748..79289097

<400> 161

SEL PCT 012.ST25

tatatatait atatatatag taactgttct attatatata tattatatat attctgttc	60
tattatatat tatatatatt atattatata ttatatgtaa tatattatat atattataag	120
taatataita tatatattat atgtaatatata ttatatatat tatatgtaat atattatata	180
tattatatgc aatatgttat atatattata tgcaatatgt tatatatatt atagcaata	240
tattatatat attatatgca atatattata tataatatat gtaatatatt atattatata	300
ttatatgtaa tatcttatat attatatgta atatattata tatattatat gtaatatctt	360
atatataita tatgtaatat attatatatt atagtaata tattatctta tatatattat	420
atgtaataia ttatatattata tattatatgt aatatatait atagtaata tattacatat	480
tatatgtaat atatattata tgtaatatat tacatattat atgtaatatata tattatatgt	540
aatatattac atattatatg taatatatta catattatat gtaatatatt atagtatta	600
tatgtaatat attatatgta ttatatgtaa tatattatat gtattatatg tattatatgt	660
aatatattat atgtattata tgtaatatat tatatattat atgtaattat attatatgta	720
atatattata ttatatatta tatatattat atgtaatatata ttatatattata tattatatat	780
attatatgta atatattata ttatatatta tatatattat atgtaatatata ttatatattata	840
tattatatat attatatgta atatattata ttatatatta tatatattat atgtaatatata	900
ttatatattata tattatatat attatatgta atatattata ttatatatta tatatattat	960
atgtaatatata ttatatattata tattatatat attatatgta atatattata ttatatatta	1020
tatatattat atgtaatatata ttatatattata tattatatat attatatgta atatattata	1080
ttatatatta tatatattat atgtaatatata ttatatattata tattatatat attatatgta	1140
atatattata ttatatatta tatatattat atgtaatatata ttatatatta tatatattat	1200
attatatatt atagtaata tattatatatta ttattatat attatatatt atagtaata	1260
tattatatatta ttattatatat atattatatatt attattatata tataatatat tatattatat	1320
atattatatatt atatatatatt ctgttcta	1350

<210> 162

<211> 332

SEL PCT 012.ST25

<212> DNA

<213> Homo sapiens

<220>

<221> misc_difference

<222> (1)..(332)

<223> MAR of chromosome 2 genomic contig; 81142998..81143329

<400> 162

ctatgtatat aactatatat aactattata taacttaata agatatataa ctattatata 60

acttaataag ttatatataa ctattatata taacttaata agttatatat aactattata 120

taacttaata agttatatat aactattata taacttatta agttatatat aactatatat 180

aacttaataa gttatatata actattatat aacttaataa gttatatata actattatat 240

aacttaataa gttatatata actattatat aacttaataa gttatatata actatatata 300

acttatatac aacttattaa gctatatata ta 332

<210> 163

<211> 327

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(327)

<223> MAR of chromosome 2 genomic contig; 84019536..84019862

SEL PCT 012.ST25

<400> 163

actgacagta tacatactgt atatataac agtatgtata catatacagt atgtatacta 60

tatacagtat gtatactgta tatatatata cagtatgtat actgtatata tatacagtat 120

gtatacgtat gtatactgta tatatgtatt atagtgtata tatgtattat agtgtatata 180

tgtattatat atattatagt gtatgtatta tatgtgtata tacatataat atattataca 240

tatacatatg cacaatatgt atatgtatta tatgtattca tatacatata tgtatatgta 300

taatatatgt atacataata tacacat 327

<210> 164

<211> 407

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(407)

<223> MAR of chromosome 2 genomic contig; 1448030..1448436

<400> 164

tatataatat atattacata tatattatat ctatattatt tatattacat atgtaata 60

tattatattt atattattta tataatatat tatatatatt atattattta tatgtaatat 120

atttatattg ttatatata ttatatatt attatttata tataatacat atttatatt 180

tattatttat atataatata tataataaat atataatata tataaaaaata tatatatatt 240

atataatcat aatatatatt atatatatta tatataatat atataattgt acatatattt 300

atttatata ttatatatat aatatatatt ataaafataa tatataaata ttttatataa 360

tatatataaa tatttatatt atacattata ttatatata tattata 407

SEL PCT 012.ST25

<210> 165

<211> 1959

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1959)

<223> MAR of chromosome 2 genomic contig; 2117630..2119588

<400> 165

```
tatacatgtt atagtgata tagtatacta atatataatg tatgtatgtg tatacatata   60
cacatataat atacacatat ataatatata tagtatataa taatgtataa tatataatat   120
ataatataaa aigtatagta tactacatat ttatatatag tatatagtat gcatagtaca   180
tatatactat atatgtagta tactatagtg tatatatagt acaccatata tagtataaat   240
atactatata gtatgtgtac tatatatata ctatatagta tatacagtat acatatatag   300
tataacctata ctatatagta tatatagtg gcgtatacta tatagtatat atagtggtcg   360
tatactatat agtatatata gtgtgcgtat actatatagt atatatagtg tgcgtatact   420
atatagtata tatagtggtc gtatactata tagtatatat agtatacata tatagtggtc   480
gtatactata tagtatatat agtatacata tatagtggtc gtatactata tatagtatac   540
atatatagta tatctagagt atatgtagta tgtatagtat atatagtcta catactgtat   600
atacagtata tatatactct atagtatact atacagtata gtatactata tagtatataa   660
tatagtata ctatagaaac aactatata tagtatacta tatatactat atactatata   720
ctatatatag tatactatat atactacata ctatatatag tgtatgtata gtatatataa   780
actatatata gtgtatatag tatatatatt atatataata tatattatat tatattatac   840
```

SEL PCT 012.ST25

tatatattat atglatatta tagtatatta tactattata tattatatat tatattatat 900
 attatataat ataataaat tatatattat aaaatatata ttttatatt atatatattt 960
 aaatatitta taatatatat ttataaat atatatata attattttat atataatata 1020
 aaatataata aatatattat aatatatatt ttataaatat aatatattata tattataaaa 1080
 atataaatat ataataatatt atatatata tatagtataa tatataatatt gttatatagt 1140
 atcttatact attatactat atatatata tagtgtatat atagtatact atatatagtg 1200
 tatatagtggt atactatagt gtatatagtg tatactatag tgtatatagt gtatactata 1260
 tacactgtat atagttagtg atactatata cactgtatat agtagtgtat actatatata 1320
 ctgtatatag tagtgtatac tatatacact gtatatagta gtgtatacta tatacactgt 1380
 atatagtagt gtatactata tacactgtat atagttagtg atactatata cactgtatat 1440
 agtagtgtat actatatata ctgtatatag tagtgtatac tatatacact gtatatagta 1500
 gtgtatacta tatacactgt atatatagta tattatatat actatatatg tatatatagt 1560
 atacatatat attatatata cagtatatat agtatatata ctatgtagta tatatagtat 1620
 atatactata tagtatgtat agtatatact atagtatata tagtatatta tatagtatat 1680
 atactatata gtatatatag tataatgtat atatatata tatactatat agtatatata 1740
 gtatatgtta tatatagtat attgtatata tagtatatac agtatgtata tatagtatat 1800
 atagtataca tatatagtat gtacacagta tatatagtcct atagtatac tacatatagt 1860
 atacatgtat actatactac atatatata catgtatact atactacata tagtatatac 1920
 gtatagttata ctacatatata tatacatgta tagaatact 1959

<210> 166

<211> 520

<212> DNA

<213> Homo sapiens

<220>

SEL PCT 012.ST25

<221> misc_binding

<222> (1)..(520)

<223> MAR of chromosome 2 genomic contig; 2119984..2120503

<400> 166

tatgtatgca tcgtatacat atatagtata tatatgtatg catcgtatac atatatacag 60
tatatatagt atgcacgta tacatacagt atactatata tacagtatat acagtatact 120
atatatacag tatatacagt atactatata tacagtatat acagtatact gtatatacag 180
tatatacagt atatatagta tactatatat acagtatata tactatgtat tctatatata 240
gtatagtgt catagtatac atatagtata cactatacta tatatagtat actatatata 300
cctatatag tatatatagt atactatata tagtatatat gtatactata tatagtgtat 360
atatatacta tatatagtg atatataac tatatatagt atatataac actatatatt 420
gtatagtata gtgtatatat agtatagtat atgtatatat acacatgtat acatgtatat 480
atgtatacta atatatacta atatatgtat aaatatatat 520

<210> 167

<211> 954

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(954)

<223> MAR of chromosome 2 genomic contig; 2578285..2579238

<400> 167

SEL PCT 012.ST25

tattatata aactttataa tatataatat atattatata taactttata atatataata 60
 tatattatat ataactttat aatatataat atatattata tataacttta taatatataa 120
 tatatattat atataacttt ataatatata atatatatta tatataactt tataatatat 180
 aatatatatt atatataact ttataatata taatatatat tatatataac ttataatat 240
 ataatatata ttatatataa ctttataata tataatatat attatatata actttataat 300
 atataatata tattatatat aactttataa tatataatat atattatata taactttata 360
 atatataata tatattatat actatatata atatataact ttataatata taatatatat 420
 tatatactat atataacttt ataatatata atatatatta tatattatat ataactttat 480
 aatatataat atatattata tataacttta taatatataa tgtatattat atattatata 540
 ttatatatta tatataactt tataatatat aatgtatatt atatattata tataacttta 600
 taatatataa tatataatat aatatataac ttataatat atatacata tattatatat 660
 aactttataa tatatatcat atattatata taactataat atatatatca tatattatat 720
 ataactataa tatatatatc atataattata tataacttta taatatatat atcatatatt 780
 atatataact ttataatata tatcatatat tatatataac ttataatat atatcatata 840
 ttatatataa ctttataata tatattatat ataactttat aatatatatc atatattata 900
 tataacttta taatatatat catatattat atataacttt ataatatata tcat 954

<210> 168

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(452)

<223> MAR of chromosome 2 genomic contig; 3836217..3836668

SEL PCT 012.ST25

<400> 168

tttatatata aatatatatac ttatatatat ttatatataa tacatatata tcttatatat 60

ataaaatata tatacatatt tatatatataa atacatatgt attatatata ttatatata 120

atacatatgt attatatata attatataat acatatgtat tatatacaat tatataatac 180

atatttataa atatatatat ttatatattat atatatattat atataaataa atatatattt 240

atagatttat ttatatataat atatatattat ataaatatat attatatat atttatataa 300

atataattt atatatattt ctatatatat atataaatat atgtataaat atatatattt 360

atacatatat tcatataaat atatatattt atacatgtat ttatatgaat atatatattat 420

acatgtaatt atataaatat atatttatac at 452

<210> 169

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(417)

<223> MAR of chromosome 2 genomic contig; 3837666..3838082

<400> 169

gatatatata ttatatataa tatatatata aagagatata ttatatatt tatttatata 60

aatatatttc ttatatataa gatatatgta aatatattta ttatatataa tatatttata 120

tatgtaaata tatatttata tatttatata ttatatatt tatttatata aatatatata 180

tttatatatt tatttatata tataaaaata tataaatata aatatatata aatatatata 240

SEL PCT 012.ST25

attataaata tagaaataaa tataaatata aatatataaa tatatatataa tataaatata 300
 tataaatata aatatatata aatataaata tataaatgta taaatatata aatataaata 360
 tatataaata tgtataaata tataaatata taaatatata aaaatatata taaatac 417

<210> 170

<211> 1197

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1197)

<223> MAR of chromosome 2 genomic contig; 6294846..6296042

<400> 170

tatatactaa tatgtatata taaatatata aatatatata cacgtgtata tataaatata 60
 tatgtatata taaatatata tacatatatg tatataaaaa tatatacgta tatacgata 120
 tacgtatata tagatatata cgtatatacg tatatacgta tatatagata tatacgata 180
 tacgtatata tagatatata cgtatatacg tatatacgta tacatgtgta tatacgata 240
 tacacatata cgtatatacg tgtatatatg tatatgtata cattatatat acgtatatat 300
 acatatatgt atacatgtat atataaatat atacatatat gtatatatta tacatatatg 360
 tatatatat atatatatta tatataatata atatatata tataatatat atatatata 420
 taatatatata attatatata atatatata tattatatat aatatatata tatataatata 480
 attatatatg tacatatgta cataatgtat atagtatat atataatata tatgcacatg 540
 tatatatat atagtatat tatatatata tatgtatata tgtacatat atatatgtat 600
 atagtacat attatatata catatgtata tatgtacata ttatatatac atagtatat 660

SEL PCT 012.ST25

atgtacatat tatatatata tatgtatata tgtacatat atatatacat atgtatatat 720
 gtgcatgcat atataatata taatatatta tagattataa tattatatac atatcatata 780
 ttatatactt atatatacat gtatatatta tatacatatt atatattata tacatataat 840
 atatgtatat aatatataca tatattatat attatatata atacattatg ttatatatta 900
 tgttatataa tatataattat ataatatata tatattatat ataatatata catatataat 960
 aaataatata taattatata tataatfatat gcatataaat atgtaatata ttttatatta 1020
 tatatgatca tatataatat gacatattat atatgattat atatatgata tattatatat 1080
 gattatatat attatatata aatatatgat tatatataat catatatata aatatatgat 1140
 tatatgatta tatataaata tatatatatg attatatgat tatatataat tgattat 1197

<210> 171

<211> 362

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(362)

<223> MAR of chromosome 2 genomic contig; 6506971..6507332

<400> 171

tatatatagt gtatactata tatacgctat atgcacacat aaactatata tacagtatat 60
 aatatgcgta tactatatac acagtatata ctacatgat actatatata gtatataaga 120
 tatatactat gtatataata tatatactag gtatatatat ccatatatat actatatact 180
 atagtatata catatatatg tacgtatata tgtatatgta catatatatg tagtatgtat 240
 atatatacat atatacacac tatagtatat acatatatat actatatata ccctatatag 300

SEL PCT 012.ST25

agtatattat atacagtata ctatatatac tatatatacc ctatatagag catgtctaig 360

ct 362

<210> 172

<211> 2578

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(2578)

<223> MAR of chromosome 2 genomic contig; 6507395..6509972

<400> 172

ggtatactat atatactata gaggatactt tatagtatat atacctatat tatatatata 60

tacatacact gtagatata tatggatat atactatata tggcatatat agtttatata 120

tatactatat atggatatata tagtttatat atatactata tatggatat atagtttata 180

tataccatat atggatatata tagtttatat agtacatata gtatatatac aactgtata 240

gtatatatta ttagtatat atactatata tactgtatat atagtataaa tactatatat 300

agtatacact atatactata cactatatat actatafact atatactata tatagtatac 360

tatataglat atagtatact ctatatgtac tatagagtat actatatata ctatacataa 420

aataatttta tatatagtag agcgtatact atatactata tatagtatac tctatatgta 480

ctatagagtg tagtatatac tatacagtat actctatata tactatacag tacactatat 540

atactatata tagtatattt tatatatagt acagtatata cagtatatat attatactat 600

atgtagtaca tatatagttt agtatatata gtatatatac tatactatat gtactacata 660

tataatagta tatataglat atatactata ctatatgtag tacatatata gtttagtata 720

SEL PCT 012.ST25

tatactagta tatagatata tagttatata gatataaat agtatatata gtatatatag 780
catatatagt atatatgcta tatatactat atagcatata ctatatacta tatatacagt 840
atatatagca tatatagcat atataatata tatacttttg atatacatac tatatacagt 900
atatatagta tatatactgt ataaatatata tatatatatacc gtatatgcac actatatgct 960
atatatactia tatacactat atacagtata tatagtacac tatactatat aaagtatata 1020
tagtatacag tacactatac tatatacaatt atatatagta tataattatac atagtatata 1080
gtatataaat agtatatata gtatatacag tatatatata gcatacttta tatagtatac 1140
acagtatata gatactatat atgctatata tagtatctat atactgtata ttatatatac 1200
taatatagta tatatgtata tatatactgt atataataa tatacatata tagtatatat 1260
actatacata cacactatac atatgtatat atactatata tactatatatac tatataicct 1320
atatatactia tatagtatat tataatacct atatatata tatagtatat tatatacct 1380
atatatactia tatagtatat tatatatatac atataccata tatactatat atactgtata 1440
gtatactata tatactatat agtatactgt atatactata tagtatactg tatatactat 1500
atagtatact gtatatata tatagtatac tgtatatact atatagtata ctgtatatac 1560
tatatagtat actgtatata ctatatatac tatatagtat actgtatata ctatatagta 1620
tactatatat actatatatac atatatatac tgtatatact atatatagta tatactatgt 1680
atagctata tatagtatat atagtatata tgctatatat agtatatata gtatatatgc 1740
tatatatata gtcctatatat agtatatata ctatatagac tatatatata gcatatatac 1800
tatatatatac atatatataa tatatggat atacatagta tctatatgta gtatctatat 1860
atagtaacca tatatactat atataggtac tatatatagt atatatactt tatatagata 1920
ctatatatag tatatatatac ttatatagta tatatagtat atgtagcata tatagtatat 1980
atagtatata tagtatatag tatgtatagt atatatagat tatattgtat atacagtata 2040
tatactgtat atactatata aataglacat acagtatata cagtatatat gtactatata 2100
tagtatatac agtatatata gtatatatgt accatatata gtatatacag tatatacagt 2160
atatatgcac tatatgttat atacagtata tacagtatat atgtactata taaatagaat 2220

SEL PCT 012.ST25

atactctata tacagtatat atgtactata taaatata cactatgtac agtatatatg 2280
 tactatataa atagtatata cactatatac agtatatatg tactatatag tgtatacagt 2340
 atatacagta tataggta atatatggta tatacagta atatacacta tatggatat 2400
 acagtatata tgcactatat atggatatata cagtatatat gtactatata tggatatatac 2460
 agtatatatg tactatatat ggtatataca gtatatatgt actatatatg gtatatatacag 2520
 ttatatacagt atatatgcac tatatatggg atatacagta tacatgtact atatatgg 2578

<210> 173

<211> 598

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(598)

<223> MAR of chromosome 2 genomic config; 7770400..7770997

<400> 173

gtgtattgta tatacatata cgtatctacg tatatacata tatgtattgt atatacatat 60
 atgtattgta tatacatata tgtatatacgt tatatacata tatgtattgt atatacatat 120
 atgtatatac gtatatatac atagtatat acgtatatag atatacatat atagtattg 180
 tatatacata tatgtatata catatatata tatatatga tatacatata tatgtattgt 240
 atatacatat acaatatatg tatatatata tatacatata caatatatgt atatacatat 300
 atagtattg tatatacata tatatgatt gtatatatac atattgatat acatatatgt 360
 atatatatac atagtatat atgtatatat acatatatgc atatatgtat atatacatat 420
 atacatatgt acatatatac atatatatac atagtatat atacatatat acatatgtac 480

SEL PCT 012.ST25

atatatacat atatacatat gtacataiat acatatatac atatgtacat atatacatat 540

atagatatat atacacatat atagatatatac ttatatgtat atatacatatac atacatat 598

<210> 174

<211> 1048

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1048)

<223> MAR of chromosome 2 genomic contig; 8332422..8333469

<400> 174

cattatatat aatatataat atattattat atataatata tataacatta tatatagtat 60

atatgacata tataacatat attatatata acatatataa aatataacat attatatata 120

acatatataa aatataacat atattatata taacatatat aaaatataac atatattata 180

tataacatgt ataaaatata acatatatta tatataacat gtataaaata taacatatat 240

tatataacat gtataaaata taacatatat tatatatataa atatattata ttttatatat 300

tataaataaa atatattata ttttatatat tataacatat tatataaata atatataata 360

tataacatat attatatataa taatatataa catatattat ataaataata tataacataa 420

catatattat ataacatata acatataaca tatattatat ataacatata acatataaca 480

tatattatat ataacatata acatataaca tatattatat ataacatata acatatatta 540

tattatatat aacatataac atatattata ttatatataa catataacat atattatatt 600

atatataaca tataacatat attatattat atataacata taacatatat tatattatat 660

ataatatata acatatatat tatatatata atataacata taacatatat tatatatata 720

SEL PCT 012.ST25

ataatatata acatatatta tatataatat aatatataac atatattata tataatataa 780
 tatataacat atattatata taatataata tataacatat attatataata atataatata 840
 taacatatat tatatataat ataatatata acatatatta tatataatat aatatataac 900
 atatattata tataatataa tatataacat atataatata taacatatag catatataat 960
 atataacata taacatatat tatatataac atataacata tattatatat aacatataac 1020
 atatataata tgaacatta tatataac 1048

<210> 175

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(375)

<223> MAR of chromosome 2 genomic contig; 8909678..8910052

<400> 175

tatatacaca tatatacgta tgaatatata tacacatata cgtatgaata tatataccca 60
 tatacgtatg aatatacaca tatatafacg tacgtatata tatacacata tatacgtacg 120
 tatatatata cacatatata cgtacgtata tatatacaca tatatacgta cgaatatata 180
 tacacatata tacgtacgaa tatatatata catatatacg tacgaatata tatacacata 240
 tatacgtacg aatatatata cacatatata cgtacgaata tatatacaca tatatacgta 300
 cgaatatata tacacatata tacgtacgaa tatatatata catatatacg tacgaatata 360
 tatacacata tatak 375

<210> 176

SEL PCT 012.ST25

<211> 563

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(563)

<223> MAR of chromosome 2 genomic contig; 10572503..10573065

<400> 176

atttataata tataatgtata aatatatgta tatatttata tttaaataa tgtatatata 60

tttatattta aatatatgta tatatattta ttttaaata tacgtgtata tatttatatt 120

taaataatagc tgtatatatt tatattttaa tatacgtgta tatatttata tttaaataa 180

cgtgtatata ttatatatta aatatatgta tatatattta ttttaaata tacgtgtata 240

tatttatatt taaataatagc tgtatatatt tatattttaa tatacgtgta tatttatatt 300

taaataatagc tgtatatatta ttttaaata tatgtatgta tttaaataa tatattttaa 360

gtatatatt ataaatgtat acatgtatat ataaatatat atattttaa tatatattta 420

tatatatatt tatatattta tataagtata tatatattta aatatatgta tatatttata 480

tatttatata agtatatata tttaaataa tgtatatatt tataatatat attttaaata 540

tatatttata tatttatatt ata 563

<210> 177

<211> 595

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(595)

<223> MAR of chromosome 2 genomic contig; 11609694..11610288

<400> 177

tataaatact atatatagta tatataatat tatatatact atatataaat atatgtagta 60

taaataatat ataataiaga tatataatat aatataatat gttataaata taaatatatt 120

tatataattt aatttataat atataatata taatatataa tttaatttta taatatataa 180

tatataattt aattttataa tatataatat ataatatgta aattatatat aatttaatat 240

atctaaatta tataatttaa atataaatat aatataaata tatctaacat aatatacata 300

acataaatat atatatgata tatagtacat ataaatatat atagtacata tagtatatat 360

aaatatatag tatatataaa tatagtatat ataaatatat agtatatata tagtatatat 420

aaatatatag tatatataaa tatatatagt atatataaat aatatatagt atataaataa 480

tatatattat faaatataat aataatttat tatatatact atattattt atgtattata 540

ttatataiat tattttatat ttaatatata ttattttata tatttatatt aatat 595

<210> 178

<211> 662

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(662)

<223> MAR of chromosome 2 genomic contig; 12699804..12700465

SEL PCT 012.ST25

<400> 178

```

gtatatatat atatatatat atgggtgtata tatatatata tatatatggt gtatatatat   60
atatatatat atgggtgtata tatatatata tgggtgtatat atatatatgc tgtatatata   120
tatgggtatat atatatggta tatatatatt tgctatatat atagcagatc tgctatatat   180
atatatttgc tatatatata gcagatctgc tatatatatt tgctatatat atgctatata   240
tatgctacat atagctata tatatgctat atatatgcta tatatatgct atatatatgc   300
tatatataig ctacatatat gctatatata tgctacatat atgctatata tatgctatat   360
atatatgcta tatatatgct atatatatat gctatatata tgctatatat atagctata   420
tatatgctat atatatatgc tatatatatg ctatatatat gctatatata tagcatatat   480
atatagctat atatatgcta tatatatagc ttatatatat gctatatatg ctatatatat   540
gctatatata tagctatata tatgctatat atagctatat atagctaca tatatgctat   600
atafatgccca tatglatgct atatatatgc tatatatata tgctatatat atgctatata   660
ta

```

662

<210> 179

<211> 649

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(649)

<223> MAR of chromosome 2 genomic contig; 12821904..12822552

<400> 179

SEL PCT 012.ST25

tatgtaatat tatatatata aattatatat tatacatatg taatattata tatatatataa 60
 ttatatatta tacatatgta atattatata tatataaatt atatattata catatgtaat 120
 attatata tataaattat atattatata tatgtaatat tatatatata taaattatat 180
 attatacata tgtattatat atataaatta tatattatac atatataata tatatatataa 240
 ttatatatta tacatgata atatataata attatatatt atacatatat aatatatata 300
 aattatatat tatacatata taatatatat aaattatata ttatcatatat ataatatata 360
 taaattatat attatacata tataatatat ataaattata tattatacat atataatata 420
 tataaattat atattatata tatataatat atataaatta tatattatac atatataata 480
 tatataaatt atatattata catatataat atatataaat tatatattat acatatataa 540
 tatatatataa ttatatatta tacatatata atatataata attatatatt atacatatat 600
 aatatatata aattatatat tatacatata taatatatat aaattatat 649

<210> 180

<211> 3191

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(3191)

<223> MAR of chromosome 2 genomic contig; 15356889..15360079

<400> 180

tacaattata tataactata aatataatat aatatatatt atctatatta catattaata 60
 tataatatat attacctatt aatatataat ataatatata taatatatat tacctattaa 120
 tatataatat aatatatata atatataatta cctattaata tataataaaa tatatataat 180

SEL PCT 012.ST25

atataffaca tattattata taatatatat tatataacat atataacata tactatatat	240
tatataacat atataattgt atagtatta tatatattat atatacttat acataatata	300
taaataatta aatatatgtt ataaatataa caaatatata acatatataa catatataac	360
atatatataa ttacataaaa tatataatac ataatatata ttatgcaaca tattatataa	420
tatataacat ataattgata ttatattata tcatatataa tacataatat ataatatatg	480
ataatatata atataffata tatgatataa tataatatat tatatatgtt ataataaat	540
atatattata tataggatat attataacat attacataig atataataaa tttatctta	600
tatataggat atattataat atatacaca tagcatatat taaaatatat tacatatagt	660
atattatata tactatatgt atatafacat atagtatatt atagtatatt atacagtata	720
tattatatat actatatata gtagtataca gtatatatta tatatactat atatagtagt	780
atacagtata tattatacag tatatattat atacactata ttatatatta tgtataatat	840
atactatata tagtatatta tgtagtatat attaaacata atagatatat agtatatact	900
atagataata gatattatat agtatatagt atataffata tataatatat ataatatata	960
ttatatacat atagtatata tgatatatta tatataatat atataatata taatatatgt	1020
aatataatac atattatata taatatatgt aatataatat aatatataat atagtataa	1080
taataatata tattatataa tataacatat ataaatataa taatatatat tatatgatat	1140
aacatacata aatataataa catatataat atataffata tattatattg tatatatgat	1200
atactatata ttacacatta tacattattt ataatatata attaatatat aacatatatt	1260
agataacata taattatatt tgaacatat ataagatata attacatata taacatatat	1320
aattatatat atatttatot aattatatat gaaattatat atgacatata aaattatata	1380
ttatatatgt tatatgtatt atataffata tatgttatat atgttatata taacatatat	1440
aacatatata acacacacat ataacatata taacatatat tacatatata acatatataa	1500
cacatatata attatctaac atagataata tatataatat ataataatac atatatatta	1560
tatattatoc actotattat attatatata ttatacataa tatataatat atagtatata	1620
atataatata ttgtatatac gatataatat atattgtaca tagtataata facatatata	1680

SEL PCT 012.ST25

gtatattatg tataacataa tatatagtat attatgtata acataatata tagtatatta 1740
 tgtataacat aatatatagt atattatgta taacataata tatagtatat tatgtataac 1800
 ataatatata gtatattatg tataacataa tatatagtat attatgtata acataatata 1860
 tagtatatta tgtataacat aatatatagt atattatgta taacataata tatagtatat 1920
 tatgtataac ataatatata gtatattatg tataacataa tatatagtat attatgtata 1980
 tataatatat atattatata gtatattatg tatatataat atacatatta tatagtatat 2040
 tatgtatata taatatatcat attatatagt atattatgta tatataatat acatattata 2100
 tagtatatta tgtatatata atatacatat tatatagtat attatgtata tataatatat 2160
 atattatata gtatattatg tatatataat atacatatta tatagtatat tatgtatata 2220
 taatatatcat attatatagt atattatgta tatataatat acatattata tagtatatta 2280
 tgtatatata atatacatat tatatagtat attatgtata tataatatat atattatata 2340
 gtatattatg tatatataat atacatgta ttagtatatat tatgtatata taatatatcat 2400
 gttatgtagt atattatgta tatataatat acatgtatg tagtatatta tgtatatata 2460
 atatatataa ggtgtatata tattatgtat atataatat taaggatat atattatgta 2520
 tatataatat atataagggt ttatatataat gtatatataa tatataagggt atgtatatta 2580
 tgtatatata atagtatat tatatataat atatatatt tatatacat atgtatctat 2640
 ataatatata ttatgtatat attaggtatc tatataatat atattatgta tatatattat 2700
 gtatctatat aatatatata ttatgtatat atattatgta tctatatat atatatatta 2760
 tatgtatatt atgtatctat ataatatata taatgtatat agatatatta tatattatgt 2820
 atatatatta tgtatctatt ttatatataa tgtatataga tatacaatat atattatgta 2880
 tatattatgt atctatatata tatatattat ttatatagat atatatatta tgtatatata 2940
 cataatatat tacatatat gtatatatat ataatatata atatatatg tatatatata 3000
 taatatataa tatattatatt attacatata ttatatataa tatattatatt tatgtatata 3060
 tattatgtat atataatgta tatataatat ataaagtga tatatattgt gtatatataa 3120
 tgtatatata ttacatatat tatgtatata tatattatc ataatatata tactacatta 3180

SEL PCT 012.ST25
3191

tacataatat g

<210> 181

<211> 314

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(314)

<223> MAR of chromosome 2 genomic contig; 728676..728989

<400> 181

tgtgtatata tgtatatata atatataatta tataatatgc atatgtataa aatatgtata 60

ttatatatgt atattttata tatatgtata tattatatgt atattttata tatgtatatt 120

ttatatatat gtatatatta tatatgtata ttttatatat atgtatatat tatatgtata 180

ttttatatat atgtatatat tatatatgta tttttatat atatgtatat attatatatg 240

tatatattat atatatgtat attttatata tatgtatatc atatatatgt atatattata 300

tatatgtata tcctt 314

<210> 182

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

SEL PCT 012.ST25

<222> (1)..(423)

<223> MAR of chromosome 2 genomic contig; 737493..737915

<400> 182

ataatatata gtgiccttta tattatctaa tatgtaatat aatgtatttt atattatgta 60

ttttatatta tataatatat aatataatgt attttatatt atagtgtata taatatatag 120

tgcattatat attatgttat attatatata ttttattat ataaattata tattatatgt 180

tattttatat atattatata acatataata taacaatgca ttatatatta taaaatatat 240

aatacattac atattatata taatatataa tacattacat atattatata atatatata 300

cattatcata tattacaaat attacattag tataatagta attataatat aatatattat 360

atattacata tattatatta atgtaatagt aattataata taatatatat tatattttat 420

att 423

<210> 183

<211> 724

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(724)

<223> MAR of chromosome 2 genomic contig; 1069556..1070279

<400> 183

tattataata tattatatac atttatattgt atatatacta tatatggtat atatagtata 60

cataatataa aatgtatatt gtaatatata ttatatatat acatagtgtta cattatataa 120

SEL PCT 012.ST25

tataatataa tgtatattat aatatacatt ataataaat agtgtactat gtatatagta 180
 tatataatgt atattataat gtattatata gtataatata atataatata cattatatag 240
 tattgcatta tataatgctat ataatatata atattattatg tatatatata ttatatatac 300
 tatattatat agtacatata atgtatatata tatagtatat ataataaat acattatata 360
 tacaatatat aatgtatatt atattatgtg tataatgtaa tacattatac atagtacata 420
 aagtatatata taatatatta taatatataa tacaattat atattataat gtatatataa 480
 tattgtatat atactatata taatgtatat acaattatat ataattgtat atatacatgt 540
 atatttatat gtatatatac atgtatatgt atgtgtatat atacatatat gtatatgtat 600
 gtgtatatat gtatatgtat atatttatat gtatacgtat atatttatat acaatgtata 660
 tataatgtat ataaaaatat ataatatata caatatgtat ataattgtata taattatata 720
 atat 724

<210> 184

<211> 383

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(383)

<223> MAR of chromosome 2 genomic contig; 2719918..2720300

<400> 184

atatttatat ttatatatt atttatatat aaatatatat ttatatatta tatattatt 60

atatataaat atattttat attttatata ttatttatat ataaatatat atttatatt 120

tatatattat ttatatataa atatatattt atattttata tattttttat atataaatat 180

SEL PCT 012.ST25

atatttatat ttatatatt atttatatat aaatatatat ttatatatta tatattatt 240

atatataaat atatatttat atttatata ttatatatt atatattata tatattata 300

ttaattgtg tataatatat attataaat ataataaata tattatttt tatatatatt 360

ataaaaatat ataatatata aaa 383

<210> 185

<211> 309

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(309)

<223> MAR of chromosome 2 genomic contig; 4994249..4994557

<400> 185

tataatatat aattgttata acattataac aattatatat tatatatat acaattatat 60

aatatatatt atataattgt aatatataat ataattatat aatatatatt atataatata 120

atatataata tatcatatat gttatatatt ttattatata atatataita tatataatat 180

tatatataat atatattata tataatatta tatataatat atattatata taatatatt 240

atatatatta tatataatat atattatata ttaaattatta tatatatat atatataaca 300

ttattgtta 309

<210> 186

<211> 740

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(740)

<223> MAR of chromosome 2 genomic contig; 5034916..5035655

<400> 186

tttatatata aaatattata tataatatta tatataatat ttctatata aaatgtgtat 60

ataattatat ataattatat aaaaatataat atagaatatc taataatgta taatatataa 120

catataaaaa taatattatt taatatataa tattttatat ataatatatt tatatataat 180

ataatatata ttttatatat aattattaat tatataatta atatataata tatattttat 240

acataattat taattatata taattaatat ataatatatc ttatacataa ttatcaatta 300

tatataatta atatataata tatattttat acataattat taattatata taattaatat 360

ataatatatc ttatacataa tatatatataa tatattatat ataatatata ttatatataa 420

tatttatatat aatatatatt atatatatata aatttatata taatattata tataatatta 480

tatatattat atacaatatg atatataata taatttatat attatatata ttatatata 540

attattatat aaatttatata aatataaatt atatatttat atataattat tatataaatc 600

attatataat tattataatt ataatatata atataatata atattatata taatatatag 660

tattctatat aaataatata acatatattt tatatagaat attatatata atataatata 720

tattttatat agaattattat 740

<210> 187

<211> 847

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(847)

<223> MAR of chromosome 2 genomic contig; 6074678..6075524

<400> 187

```

aatatagaca taaatata tgcataaata tatatatgca taaatatata taaaaatata   60
tataaatata tacataaata tatataaata tatacaaaaa tatatatata tatataaaaa   120
aatatataaa tatatatata catatatata tatatatata tacatatata aacatatata   180
cataaatata tatgtataaa tatatatata cataaatata tgtatgaata tatatacata   240
aatatatatg tataaatata tatacataaa tatataaaga tatatacata aatatatata   300
aatatatata cataaatata tataaatata tataaataga tatataaata tatatatata   360
tatataaata tatatatata tatataaata tataaaaaata gatatatata tatatatata   420
aatatataaa tatatatata aatatatata aatatataaa tatatatata aatatatata   480
aatatataaa tatatatata tatataaata tatatatata tatatatata tatataaata   540
tatataaata tatataaata tataaatata tatataaata tatataaata tataaatata   600
tatataaata tataaatata taaatatata tataaatata taaatatata taaatatata   660
taaatatata aatatatata aatatatata aatatataaa tatatatata tatatatata   720
tatatatata tatataaata tatataaata tatataaata tatataaata tatataaata   780
tataaatata tatataaata taaatatata taaatatata aatatatata taaatatata   840
taaatat
```

847

<210> 188

<211> 784

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(784)

<223> MAR of chromosome 2 genomic contig; 6108986..6109769

<400> 188

```

atttatttat atatttaata tataaaatat atatttaata tataaaatgt atatatatac   60
atatattata tataatacaa tatatattat atataatata tattatatat aatattatat   120
attatattat aatataatat atatttatata taatataata tatattatat attattatat   180
ataatataat atattattata tattattata taataataaa tatatattat atattattat   240
atataatata atatatatta tatattatta tatataatat aatatatatt atatatatat   300
tttatatata taatatataa tatatatatt atatatatat ttatatata taatatataa   360
tatatatatt atatatatat ttatatata taatatataa tatatatatt atatatatat   420
tttatatgta taatatataa tatatatatt atatatatat tatatatata taatatgtaa   480
tatatatatt atatatatat tatatatata atatatatta tacataaaat atattattata   540
tataatatat ataatatata ttatatataa aatatatttt atgtataata tatattatat   600
ataatatata atgtatattt atatatataaa tatatatatta tatacaatgt atatttatat   660
ataaaatata tatttatata caatgtatat ttatatataat atgtgtttaa tatatgaaat   720
atatatttat atataatata tatttaatat ataaaatata tattaaatat atatttatat   780
ttaa

```

784

<210> 189

<211> 381

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(381)

<223> MAR of chromosome 2 genomic contig; 10389032..10389412

<400> 189

tatacacata tagagtatat agagtatata tagagtatat ctatagagta tatatgtata 60

tagagtatat aatacagcct accatatata tagtatacat atatatatac tctatatact 120

atatatatag tgtgtatata tatagtatag accctacat atatatatat aggagtatat 180

aatatatac actcctacta tatatagtat gtatatagag agtatataga gtatatatac 240

agtatatata cacagtatat atatgccata tatagtatct atatacttat atatagtatg 300

tatctatata cttatatata gtatgtatct atatactata tatagtatgt atctatatac 360

tatatagagt atatgttat a 381

<210> 190

<211> 507

<212> DNA

<213> Homo sapiens

<220>

<221> misc_difference

<222> (1)..(507)

<223> MAR of chromosome 2 genomic contig; 11097807..11098313

<400> 190

SEL PCT 012.ST25

aattatatat aattattat atataattt atatttataa tattttata tacatattt 60
atatatcttt ataattatat attacatata taatattata taatatatai aatatatata 120
atatatatta tatattatat aatatatatt atatatatta tatataatat atataatata 180
tataatatat ataatatata taatatataa tataiattat ataatatata ttatatataa 240
tatatattat atataatata tattatatai aatatataaf atataataa tatataacat 300
ataataatat attacatata atttatatat aattttata taattatata tatttatata 360
ttttatata attatatata ttatatatt ttatatataat tatatatatt tatatatitt 420
tatataatta tatatatatai tttatatataa atatatataa tttatatataa tttatatataa 480
ttataaata tataattata tataatt 507

<210> 191

<211> 329

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(329)

<223> MAR of chromosome 2 genomic contig; 11234628..11234956

<400> 191

ttatagttaa atatataaat ataaaatata cagttttata cagtatatat aaaatataca 60
atatataata cataatacat tagttatata tactatatat actatatata ctacacgtat 120
agtatatata tgaaactata tatatactat acgtgtagta tatatatgaa actatatata 180
tactatacgt gtagtatata tatgaaacta tatactatac gtatagtata tatatgaaac 240
tatatatact atatatactt aactataatt gtatatagtt aaaaatataa atataaata 300

SEL PCT 012.ST25

tacagttaaa tatattaata tataatagt

329

<210> 192

<211> 584

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(584)

<223> MAR of chromosome 2 genomic contig; 797844..798427

<400> 192

tattatttta tgtataaat agataaaaat atataactaat atatatgtac ttatatatac 60

atcaafatat aatgtattat ttataactaa cgtatattat atatactagt atataatcta 120

tattatttta tatgttataa atataataa aaatatataa atattttatg catatatataa 180

tatataatat atactaacat gctaatttat atatacttat atataattta tatagtatat 240

aatatataaa tgtatataat acataattta tatatttata tattaatagt ttatatatta 300

gtatatatac taattttata tactaataaa taaatttat aatatataaa ttatatatta 360

tagtacataa tatatattat atagttaaat aactatgtaa ctataatata taactatata 420

tgatatacag ttatatataa tataaaattt acatacagta tataaaattat atactatata 480

tttatatata tatggatat aaattatata ctatacaatt atatacatat ggtatataaa 540

ttgtatacta tataatgtgt attagtatat atactaatat atac 584

<210> 193

<211> 363

<212> DNA

SEL PCT 012.ST25

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(363)

<223> MAR of chromosome 2 genomic contig; 1093824..1094186

<400> 193

tatacacaca catatatata cacatatata tacacatata tatatacaca tatatatata 60

catatatata cacgtatatata tgtatacaca tatatatgta tatatatata catatatata 120

cacatatata cgtgtatatata cgtatatatcg tacatatata cgtgtatatata cgtatatgcg 180

tacatatata cgtgtatatata cgtatatgcg tacatatata cgtgtatatata cgtatatgcg 240

tacatatata cgtgtatatata cgtatatgcg tacatatata cgtgtatatata cgtatatgcg 300

tacatatata cgtgtatatata cgtatatgcg tacatatata cgtgtatatata cgtatatgcg 360

tac 363

<210> 194

<211> 545

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(545)

<223> MAR of chromosome 2 genomic contig; 3456187..3456731

SEL PCT 012.ST25

<400> 194
tattataata tatatttata tattataata tatatttat tatatattta tatattataa 60
tatatattat attatatatt tatatattat aatatatatt atattataat atatatattat 120
attataatat attatattat aatatatatt atattattat atattataat ataatatata 180
ttataatata tattatattta taatttatat attatatata ttataatata tattatatta 240
tatatatatt tatattataa tatatattat tatatattat atattataat ttatattata 300
ttacaatata tattataaat atatatattta tattataaat atatatittt atattacaat 360
atatattata aatatatatt ttatattaca atatatattta taaatatata tattatatta 420
caatatatat tataaatata tattatatta caatatatat tatattataa tatatattta 480
tatatgatat attatattta atatatattta taacataata tataatatai aatatattaa 540
tataa 545

<210> 195

<211> 356

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(356)

<223> MAR of chromosome 2 genomic contig; 5001567..5001922

<400> 195

tataaaatat atgttatata tataatatat attatataat atataatata tataatatat 60
aaaatatata aaatatataa tatataatat aatatataat atatatata tataaaatat 120
atataatata aaatatatat aatatataat atatatata tataatacat ataatatata 180

SEL PCT 012.ST25

atatataata tataatata ataatatata atatataata tataatata ataatatata 240
 atatataata tatataatat ataatatata atatataata tataaatata taaatata 300
 tacacacata cacacacata tatgcata tatacatata catgtgtaca tagata 356

<210> 196

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(321)

<223> MAR of chromosome 2 genomic contig; 5457330..5457650

<400> 196

tatacaatat attataaatt atatataatt tatatataat atatattata tataaattat 60
 atataattta tataatata aaattatata taatataaat tatatataat ttatataata 120
 tataaattat atattatata aattaaatat aatttatatt atatataaat tatatttaatt 180
 ttatataata tataaattat attaattta tatataatat aaatttatatt ttatatatt 240
 atgtataatt tatatattta facatatata cattataata tattgtatag tatatataat 300
 atatagtata tataaagcat a 321

<210> 197

<211> 361

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(361)

<223> MAR of chromosome 2 genomic contig; 8124469..8124829

<400> 197

```
tatatataat atatattata tatattatat aaattatata taatatgtaa tataaatttt   60
gtaatatataa ttatatatat aaattatata taatatatat taatatatat aatatataatt  120
aatatatata atatataatt atatafaatt tatatgatat atataaatat atattatata  180
taaattatat atatacataa ttatatatca tataaattat atataatata cattatgtac   240
ataatatatg atatataata tataatatat attatatata attatatata tataattata   300
taatatatat aaattataat atataatata tataaattat aatatataat atatatataat  360
t                                     361
```

<210> 198

<211> 418

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(418)

<223> MAR of chromosome 2 genomic contig; 11151485..11151902

<400> 198

```
atgtaactat atatatagta tatatagtat atatatata tatagtgtgt atatatagta   60
```

SEL PCT 012.ST25

tatataact atagtggtg tatatatagt atatatatag tttatatatc gtatatcac 120
 tatatactat atagtggtata tatagtatat gtagtatata tagtatatat agtatagtat 180
 atatagtata tatagtggtat atatacigta tatataggtg acatagtata ctatatagia 240
 tacatatagt acactgtata gtatatatag tatagtatat atagtataca tagtatacta 300
 tatatagtat agtatacata gtatactata tagtatatag agtatatata cagtatacta 360
 tatagtatat agagtatata tacagtatac tatatcgtgt gtagagagta tatataca 418

<210> 199

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(394)

<223> MAR of chromosome 2 genomic contig; 13591477..13591870

<400> 199

ttatatatat ttatatata ttatatatat ttatatata ttatatatat attatatata 60
 tattatatat aattatatat aatatatatt atatatatta tatataatta tatataatat 120
 atattatata tattatatat ataatatata tataatatat atatttata tatgtattat 180
 atatatatta tatatatatt atatatatta tatatatatt atatatatta tattttatat 240
 atataatata acatatataa tatataatta tatattatat atatatatta ttatatataa 300
 tatatatatt atataatata atataaatt atatatatta tatattttat atattttat 360
 aaaaattatt ttatatatt ttatatataa atat 394

<210> 200

SEL PCT 012.ST25

<211> 1194

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1194)

<223> MAR of chromosome 2 genomic contig; 14996824..14998017

<400> 200

```

taatatttat atatacatat aaaatttata tataatatat aatatttata tatacatata    60
aaatttatat atatatataa tatttatata tacatatataa atttatatat aatatataat    120
atttatatat acatatataaa ttatatata atatatataa ttatatata catataaaat    180
ttatatataa taaalattta tatatacata taaaatttat atataattta tatataacat    240
ataatattta tatataaaat ttatatataa catatatatta tatataattt atatatataca    300
tataatattt atatatataa tatatttatt tatacaattt atatatataa tataatactt    360
atatatacat acataattta tatgatatat atttatata taatttatat gatatatataat    420
atatctaata tatatttat atatttatata tatttatatat aatttatata atatatatta    480
tatatatata ttatatataa tatatatatt atatatataat tatataatat atatatata    540
tatataattt atataatata tatttatatat ataatttata taatatatat tatatatata    600
atttatataa tatatatatt atataattta tatataacat attttatata catatatataat    660
ttatatataa tatatatatta catatacata tataattttt atataatata aaatatattct    720
atatacatat ataattttta tataatataa aatatttcta tatacatata taatttttat    780
ataatatata ttctatata catgtctaatt ttatatataa tatatatattc tatatacata    840
tataattttt atataatata taatatattt atatacataa tttttatata atatatattt    900

```

SEL PCT 012.ST25

acatatacat atataatttt tatataatat atatttatat atacatatat aatttttaca 960
 taatataiat tatatatata tatataattt atatacaaca tataatatat acatatataa 1020
 ttatataca acatataata ttatgtata catatataat gtatacacia tatataatat 1080
 ttatatatac atataaatt tatatgtaat atatacatat ataatttata tgtaatatat 1140
 atacatglat aatttatatg tagtatatat acatgtataa ttatatgta giat 1194

<210> 201

<211> 487

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(487)

<223> MAR of chromosome 2 genomic contig; 14998429..14998915

<400> 201

tagtatatacat ttacacatac atgtataatt atatgtaata tataatattt acatatataa 60
 ttatagataa tatatatitfa catalacata tataattata tataatatat aatgtttaca 120
 tatacatata taattatata taatatatat ttaaatacat atatacaatt atataataa 180
 tatatttaca tatgcatata taattataga taatatatat ttacatatatac atataaatt 240
 atataataa tataatgttt acatatacat atataattat atataatata tatttaaata 300
 tacatatata attatatata atatafattt acatagcat atataattat agataatata 360
 tatttacata tacatatata attatatata atataataa ttacatatata catatataat 420
 gtatafataa tatataatat ttacatatatac atataaatt tatatatataat atataattata 480
 tatatta 487

SEL PCT 012.ST25

<210> 202

<211> 421

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(421)

<223> MAR of chromosome 2 genomic contig; 16562490..16562910

<400> 202

tatatgaata tatatatgaa tatatacgta tataatgaata tatacatgta tgtatatatg 60

aatatatgta tatatatgaa tatatatgta tatatgaata tatgtatata tatgaatata 120

tatgtatata tgtatatata tgaatatata tgtatatatg tatatatatg aatatatatg 180

tatatatgta tatatgtata tataatgaata tataatgata tatgaatata tatgaatata 240

tatgtatata tatgaatata tatgaatata tgtgtatata tatgaatata tatgtatata 300

tatgaatata tgtatatata tatgaatata tatgtatata tgtatatatg aatatatatg 360

tgtatatgaa tatatatatg aatatatatg tgtatatgaa tatatatgaa tatatatgtg 420

t 421

<210> 203

<211> 479

<212> DNA

<213> Homo sapiens

<220>

SEL PCT 012.ST25

<221> misc_binding

<222> (1)..(479)

<223> MAR of chromosome 2 genomic contig; 21592301..21592779

<400> 203

tatatgtata cgtatataat atattatata ttatatacgt gtacgtatat atgtaatata 60
 taatgtatat gtacacgtat ataatatata atatattata tacgtatacg tatacattat 120
 atattacata tatacgtata tacgtatata aaatatatgt atatattata tatacgtata 180
 taatatatat tatataatat ataatatata cgtatacata taatatatta tatatacata 240
 ttatatatta tataattaaa ttatatatta tatcatatat aatatatatg atataatata 300
 taatatatat atattacata atatattatta tatacatata catatataat atataatata 360
 ttatatatat atacatatat aatatataat atattatata catatacata tataatatat 420
 aatatattat atacatatat atatataata tataatatat tatatatata tattatata 479

<210> 204

<211> 870

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(870)

<223> MAR of chromosome 2 genomic contig; 22557584..22558453

<400> 204

tataatatat aatatacata atatgtatat ttatacaca atataaataa tatacataac 60

SEL PCT 012.ST25

atataatgtat atttatata tgtatatatt atatatatt tatatatatt atatatatgt 120
 atattttata tataatata atattgtata taataatata taatatatta tattatata 180
 aatatatata atatatata aatatatata tatatataat atgtataata tataatatt 240
 tatatataat atgtataata tatattttat atataataat atgtacaata tatattttat 300
 atataataat atgtacaata tatattttat atataataat atgtacaata tatattttat 360
 gtataaatg tataatata attttatgta taatatata ttatgtata atatatatt 420
 tacgtatatt ttatatataa tatataatat ttatatata atataaaca ttatatata 480
 aatatataat attatatata ttatatatt tatatataat atataaata atatatatt 540
 tatatataat atattttata tataatata ataaatata atattatata taatatatt 600
 tatatataat atattttata tataatata aatatatttt atattatata tataatata 660
 tatatattat atataatata ttatatataa tatataatat ataatatatt atataaata 720
 tataatata aatatattat atataatata taatatataa tatataatat attatatata 780
 atataaata tgaatatata aatatattat atataatata taatatata tataatatt 840
 tatatataat atataatata taatatataa 870

<210> 205

<211> 1086

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1086)

<223> MAR of chromosome 2 genomic contig; 30591960..30593045

<400> 205

SEL PCT 012.ST25

gtatataaa tatatattat attatgttat atattatgta gactatgtat taaatataatg 60

tatatattat atataaatat ataatatata ttataaattt ataattataa atatatattat 120

aatatatitt tctaaataatt tatatattat atattatatac taatgatata taataaatat 180

atttctaata tattttatat ttataaatat ttatatata ttatatattt tatatatatac 240

atatattata tattatatat ttatatata ctatatatta tatagtatat atttatata 300

tactatatat tatatattat atattttata tatactatat attatatatt atatatattta 360

tatatataat atactattta ttatatattt tatatatatac atatactatt tattatatat 420

ttatatata ctatatata ttatatatat attttatata tactatatat tatatattat 480

atattttata tataaatat atttattata tattttatat attatatata ttatatatta 540

tatatattata tattatatata tatatattat atatagaata taaatataat attatatata 600

atataatata atatatatta tataaaatat atataatata taaatataat aatatatgat 660

atatataata tatattctat atttatatat atatatattaa tattatatata atataaatt 720

atatattatc atatgtaata atagatatata tatgtaatat ataaattata attatatatt 780

aatattatat attatttaatt atgtatatatt acatatatat taattattaa atatatatat 840

ttatatatt aaatattatg tattaaatat atataatata ttataaata ttatatatat 900

aatatatata tatatttaaca tatatgtata tatgtatata ttatatataa cattatatat 960

attatgttac atatactata ttatatatgt tacatatatac atatatataa tgttatatat 1020

aatatatata acatatatta taatatgttaa catattatat ataacatata atatatagta 1080

tatata 1086

<210> 206

<211> 406

<212> DNA

<213> Homo sapiens

<220>

SEL PCT 012.ST25

<221> misc_binding

<222> (1)..(406)

<223> MAR of chromosome 2 genomic contig; 36233909..36234314

<400> 206

attataaata tatattatag atattagata ttatagatat aatatatata atatatatta 60

tagatattat agatatagat ataatagata ttatagatat tatagatata atatatatta 120

tagatattat agatataata tatattatag atattataga tataatatat attatagata 180

ttatagatat aatatatatt atagatatata tatatattat agatattata gatatagata 240

ttatagatat tatatatatt atagatatata tatatattat agatattata gatatagata 300

ttatagatat aatatatatt atagatatata tagatataat atatatattata gatattatag 360

atataatata tattatagat ataagatat ttatagatat tacaga 406

<210> 207

<211> 797

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(797)

<223> MAR of chromosome 2 genomic contig; 36271745..36272541

<400> 207

atataaacat atacgtatat acacatatat acaaatacat atatacatat attatatata 60

tgatatata ttatattata catatattat atatatatta tattatacat atatacatat 120

SEL PCT 012.ST25

acacataaac atattacata catatacaaa ttatacacat atacatatat acatatatgt 180
 atatacatat attatatata aatatatgta tataaaatgt acattatata tacatatata 240
 ttatgtataa ataatatata aaataaacat aatatatatt tatagatatg atatatataa 300
 tatatatgta tacatatata calatatgta tatataatgt acattataca tacataaaca 360
 tcatatataa atgttatata tataatataa atatatataa tatataatat atactttata 420
 tactatatat aatatatata atatgatata acatatata tatatactat atataatata 480
 tactatatat actgtatata atatatata taatatatac tatatactat aaatataata 540
 tacataatat aatatatact atatatata tataatatat aatatagtat atatactata 600
 tataataatt acatattata tattatacat tatatattat ataattatta tatataatta 660
 tatattacat actttgtata taatgtaaat atacattaga atatatatg tatatatatg 720
 tacatatata atgtatatat gtatacatta tataaactat atataaacat tatattatat 780
 aaacattata tataaac 797

<210> 208

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(423)

<223> MAR of chromosome 2 genomic contig; 36498521..36498943

<400> 208

tattatatta tataattaat attatatatt taatatatta tatatttaat attatatatt 60

taatatatta tatatttaat attatatatt taatatatta tatatttaat attatatata 120

SEL PCT 012.ST25

taatatatta tatatttaaat attatatata taatattata tatataatat tatatatatta 180
 atattatata tataatatta tatatataat atattatata tttagtatta tgtatttaaat 240
 atattatata tttagtatta tgtatttaaat atattattta tttagtatta tatatttaaat 300
 atattattta tttagtatta tatatttaaat atattatata tttaatatat tatatatatta 360
 ttatatattg tatatttaaat atattatata ttattatat attatatata attatatatt 420
 taa 423

<210> 209

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(304)

<223> MAR of chromosome 2 genomic contig; 37179891..37180194

<400> 209

gtgtatatat atcatatata ttatatcata tatatgtgta tatatatcat atattatattc 60

atatatatgt gtatatatat catatatata tcatatatgt gtatatatca tatatattat 120

atatcatata tgtgtatata tatcatatat tatatatcat atatatgtgt atatatcata 180

tatattatat atatttcata tgtgtatata tatcatatat aatatatatg tgtatatattc 240

atatatcata tataacatat atattgtgtat atatatata tataacatat atcatatatg 300

tgta 304

<210> 210

<211> 693

SEL PCT 012.ST25

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(693)

<223> MAR of chromosome 2 genomic contig; 38440448..38441140

<400> 210

```
tatatattct ttatatatt atataaata tatattcttt tatatattat ataatagata   60
tattctttta tatattatat atagtatata ttcttttata tattatatat agtatatatt  120
cttttatata ttatatatag tatatatctt ttatatatt atatatagta tatattcttt  180
tatatattat ataatagata tattctttta tatattatat atataatata tattctttta  240
tatatcatat ataatatata ttcttttata tattatatat aatatatatt cttttatata  300
ttatatatca tgtatatata atatacaaaa tatatataga ttttatatat agattattac  360
ataatagaat atattatata ttatatataa tatatacata atataaata ttatatatga  420
tataatatat atcatatata tcatataata tatattatat atcatatatt atataaata  480
atatatagat tatatataat tatatatata atatatataa ttatatatat tatctatata  540
tagataatat atataattat atataatata ttatatagat tatatataat tatattatat  600
acaaaatcta tatataatat atattatatt atataaata tacataacta tataaaaaat  660
ataatatata atatatataa tatataatat ata                                     693
```

<210> 211

<211> 471

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(471)

<223> MAR of chromosome 2 genomic contig; 38887582..38888052

<400> 211

aacatatata ctatatatat tatatactat attatatatt atatataaa acatatatac 60

tatatataat atataaacat attatattat acatgatata gataaacata tatattatat 120

ataatataga taaaatatgt tatatafaat ataagtata gacatatatt atatatacat 180

atatctaca tatattatat atatattcta cacatatatt attatatata catatattct 240

acatatatta tatatacata tattctacat atattatata facatatatt ctacatatatac 300

atatatacat atattatata facatatatt atagatatat aatatataaa catatataat 360

attattatat ataatatata taataatatt atataatata taataatatt atatcttata 420

tataaafaat atatataatt tatatatata atattatata tatataatat a 471

<210> 212

<211> 1221

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1221)

<223> MAR of chromosome 2 genomic contig; 43885944..43887164

SEL PCT 012.ST25

<400> 212

catataaaca tatattatat gtaacatata aacatattat atgtaacata taatatataa 60
 tatataaaca tatattttat atatttatg ttacatataa tatataatat ataaacatat 120
 attatatatt atatgtaaca tataatatat aatatataaa catatatttt atatatataa 180
 tataaacata ttttatatat aatatataaa catattttat atataatata taaacatata 240
 ttttatatat aatatataaa catattttat atataatata taaacatata ttttatataa 300
 tatataaaca tataatatat ataatatata aaagtatata atataaatat atataatata 360
 aacatatata atataaatat atataaaata taaacatatg taatatataa acatatatta 420
 tatataatat ataaacatat attatagcta caatatataa acatatattg tacgtacaat 480
 atataaacat atatttatagc tacaatatat aaacatatat tatagctaca atatataaac 540
 atatatata cgtacaatat ataaacatat attatagcta caatatataa acatatatta 600
 tacgtacaat atataaacat atatttatagc tacaatatat aaacatatat tatagctaca 660
 atatataaac atatatata cgtacaatat ataaacatat attatagcta caataaacat 720
 atatttatagc tacaatatat aaacatatat tatagctaca atatataaac atatatata 780
 cgtacaatat ataaacatat atgtagcta caatatataa acatatatta tatgtataat 840
 atataaacat ataatatata atatatatta tatatatggt tattatatat gtttatatat 900
 tatataaac atatatatt atatttatata tgtttatata ttatatatta tataatatat 960
 atgtttatat attatatatt atataatata tatgtttata tattatatat tatataatat 1020
 atatgtttat atatttatata ttatatataa tatatgttta tatattatat attatataat 1080
 atatatgttt atatatata tattatataa tatatatggt tatatatatt atatttatata 1140
 atatatatgt ttatatatta tatattatat aatatatatg ttatatatt atataaataa 1200
 taaacttaca tattttatta a 1221

<210> 213

<211> 543

<212> DNA

SEL PCT 012.ST25

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(543)

<223> MAR of chromosome 2 genomic contig; 45818200..45818742

<400> 213

tatgtatatata tacatatata ttatacatg tatatatgta tatatacata tatatttata 60

catgtatatata tatacatata tatttataca tgtatatata tacatatata ttatacatg 120

tatatatata catatatatt tatacatgta tgtatatata catatatatt tatacatgta 180

tgtatatata catatatatt tatacatgta tgtatatata catatatatt tatacatgta 240

tgtatatata catatatatt tatacatgta tgtatatata catatatatt tatacatgta 300

tgtatatata catatatatt tatacatgta tgtatatata catatatatt tatacatgta 360

tgtatatata catatatatt tatacatgta tgtatatata catatatatt tatacatgta 420

tgtatatata catgtatatt tatacatgta tgtatatata catgtatatt tatacatgta 480

tgtatatata catgtatatt tatacatgta tgtatatata catgtatatt tatacatgta 540

tac 543

<210> 214

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

SEL PCT 012.ST25

<222> (1)..(463)

<223> MAR of chromosome 2 genomic contig; 47055478..47055940

<400> 214

```

atacacat atatacat atacacat atacataa tacacata ttacatata   60
tacacata tatacatata tacatatata cacatatata catgcataca catatataca   120
tatatacaca catatacaca catatataca tatatacaca tatatacaca tatacacata   180
tatacacaca tatacatata tacacatata tacatatata catatataca cacatatata   240
catatataca tatacacata tatacacata tacatatata cacatatata cacatatata   300
catatataca catatataca tatatacaca tatatacaca catatacaca tatatacata   360
tatacatatg tatacacata tatacatatg tatacacata tatacacata tacatatata   420
catacacata tatacgtata tatgtgtata tatacacata tac                               463

```

<210> 215

<211> 2482

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(2482)

<223> MAR of chromosome 2 genomic contig; 47492696..47495177

<400> 215

```

aatatatata aaatatatta tattctatgt aatatataga atatatataa tatattctat   60
atattatata gaatatatat ttataatat atattattta tatattttta tatatttata   120

```

SEL PCT 012.ST25

ttatttat atttatat aattatata attatocat ataattata tataattat	180
ataaattata tatataatt atataaatt tatatataat ttatataat tatatatata	240
atttatatat aatttatatg attttatat ataattata tataattat ataatttta	300
tataaatt atataaatt tatataatt ttatatataa ttatataat atatatatat	360
aatttatata taatttatat aatttatata tataattat atataattta tataattat	420
atataaatt tatatataat ttatataatt tatatatata atttatatat aatttatata	480
atttatatat ataattata cataattat ataattata tatataatt atataattta	540
tatatataat ttatatatat aatttatata atttatatat atgattata taatttatat	600
atataattta tataattat atataaatt tatatatata attttatat aatttatata	660
ttataatt atataattat ataattata tattataat ttatatatt atataattta	720
tataattata atttatatat ttatataatt tatataaatt tattcatata ttatataat	780
ttacatataa ttatttatat attcatatat aatttatata ttatatata atttatatat	840
aattattac atatttatat atttatatat aatttatata tatttatata taatttataa	900
ataaaatata taatatataa tatataatat tataatagat aaaatatata ctatatatta	960
tataattac atttatatta atatttatg tataatttta tatcatatat aatatatatg	1020
atatatatataa ttatatatca tatataatat ataggtata tataatttta tatcatatat	1080
aatatatatg gtatatataa ttatatatca tatataatat atgatatata atttatatc	1140
atataatata tatttatatat aatttatat ctacatatta tatattatat atacaattt	1200
atatctatct ataatatata ttatatatc aattttatat ctatataata tatattatat	1260
atactttat atttatata aaatgtatat tatatatatc ttatatatt atataaaatg	1320
tatttatatat ataaatttat ttatatata aaatgtatat tatataaatt ttattttat	1380
atataaaatg tatatttat ataaatttat ttatatata aaatgtatat tatatataat	1440
ttattttat atataaaatg tatatttat ataaatttat ttatatata aaatgtatat	1500
tatatataat ttatatatt atataaatg tatatttat ataaatttat atttatata	1560
atagtatat tatatataat ttatatatt atataaatg tatatttat ataaatttat	1620

SEL PCT 012.ST25

attatata atagtatat tatatataat ttgtattat atataatag tatattatat 1680
 ataatttat attatata atagtatat tatatataat ttatattat atataatag 1740
 tatattatat ataatttat attatata atagtatat tatatataat ttatattat 1800
 atataatag tatattatat ataatttat attatata aaagtatat tatatataat 1860
 ttatattat atataatag tatattatat ataatttat attatata atagtatat 1920
 tatatataat ttatattat atataaatg tatattatat ataatttat attatata 1980
 aaagtatat tatatatatt atataaaaa tgtatttat atatattata tataaatgt 2040
 atattatata tattatat aaagtata ttatatat tatataaaa atgtattata 2100
 tgtatttat atataatga tattatgtat attatata atgtattata tatataat 2160
 atattatata taagtatat tatataat atattatata ttataatata taatatacat 2220
 tatatttat atattatata taatattata tatattatat attacatt atataata 2280
 tattatat tatattaat atattttta tattatat attatatatt atataaata 2340
 tatatttat atattatata aaatatatat atattatatt atattatata ttaatatat 2400
 atttatata taatatat aatatataat atataaata tatattatat attatatata 2460
 aattatat attatatata aa 2482

<210> 216

<211> 539

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(539)

<223> MAR of chromosome 2 genomic contig; 47561069..47561607

SEL PCT 012.ST25

<400> 216

aacagtaata tatcactaat atataataat atataacagt aatatatcat taatatataa 60

tatatcatta gtatataata ttaatatata ttaatatata atatatcata tacaatatta 120

atatatatta atataataa atatattatt aatgtataat agtaataata tatattatca 180

atatatatta ctaatatata ataatatatc gtaatatat aatagatcat taatatataa 240

tgtaataata ttatgaatag ataatatatc agtatataat attaatatat taatatatta 300

tatattattt aataatatat aatatattaa taaataatia tatattaata tagcaatata 360

ttaatatatg actgtattat attattaata tataacaata tattatatat tatataataa 420

tttattatat aatatataat aatatattat atattatata acatattaat aatacataat 480

aacattaata atataataa atgttaatat attattatat tatatattaa tatataata 539

<210> 217

<211> 336

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(336)

<223> MAR of chromosome 2 genomic contig; 52853648..52853983

<400> 217

tatatacata aaatatatat attttatata tatacataat atatatatgt atattttatg 60

tatatatcta taatatatat aatataataa aatatacata tatattttat atatatataa 120

tatacatata aaatatatat acataaaaata tacatgtata ttttatgtat atataatata 180

tatataaaat atacatgtat attttatata tataatatatc atgtataatt aatatacatg 240

SEL PCT 012.ST25

tatgttatat atattacatg tatattatat ataatafaca tataaatfitt aaatttagtg 300

tataftacat gtatattata tataatatat gtatat 336

<210> 218

<211> 406

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(406)

<223> MAR of chromosome 2 genomic contig; 54866263..54866668

<400> 218

tacgtatata aaaatgtata ttacatata taaaataaat attttatata cgtatatataa 60

atatatattt attttatata cgtatatataa atattttatt tatatatgta tataaaaatat 120

ttattttata tacatgtata taaatatat atttatatat gtatatataa atatataffa 180

tatacatgta tataaaaatat atattatata tgtatatataa aatatatatg tatataaaat 240

atatataffa tatagatata taaaatatat atttatataga tatataaaat atatataffa 300

tatagatata taaaatatat atattatata gatatatataa atatatatat tatatagata 360

tataaaaatat atatattata tagatatata aaatatatat attata 406

<210> 219

<211> 1452

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(1452)

<223> MAR of chromosome 2 genomic contig; 55113305..55114756

<400> 219

ataatatata atatatattg tatattatat tattatatat tatatattat taaatatata 60
tattatatta tatattatat aatatatatt atataataa atatagaata tataattata 120
tattatatta tatattatat aatatatatt atataataa atatagaata tataattata 180
tattatacta tatattatat aatatatatt atataataa atatagaata tataattata 240
tattatataa tatgtgaata atgtaataa taattatatt attacatat tatataatat 300
ataattatat tatataatat ataattatat tatttgtata ttatatataa catatacatt 360
ataitatata taatataatt atataaatt aattataaat taattatata taattatata 420
atataatata taatatacat aatatataat atataatata taatatacat aatataatat 480
atattatata taatataata tatataatat aatataatat aatgtataat ataattatat 540
attatatata atataaalg ttatataatt atattatatt atataattaa ttatatgtaa 600
ttaatataat ataattatta tatataaatt ttatatataat ataatatata attatataat 660
ataatataat tatattatat tatataatat atatatatta tataataaaa tataattata 720
ttatatatt atataatata atataattat atattatatt atataataaa tataattata 780
taataataa tgattatata atatatattg tatattatat attatatatt gtattatgta 840
tattatatat tatatattat gtatattata tattatgtat attatatatt atgtatatta 900
tatattatat attatattat gtataatata ttatgtatgt tatatataat ataaattata 960
ttatatatta tgtatattat atataaatta tattatatat tatgtatatt atataataa 1020
taaagtatat attatgtata ttatatataa tataaagtat atattatgta tattatatat 1080
aatataaagt atatatattg tatattatat ataatafaaa gtatatatta tgtatattat 1140

SEL PCT 012.ST25

atataatata aagtatatat tatgtatatatt atataataa taaagtatat attatgtata 1200
 ttatatataa tataaagtat atattatgta tattatatat aatataaagt atattatg 1260
 tatattatat ataataaaa gtatatatta tgtatatatt atataatata aagtatatat 1320
 tatgtatatatt atataataa taaagtatat attatgtata ttatatataa tataaagtat 1380
 atattatgta tattatatat aatataaagt atattatata tgtataaat tatatattgt 1440
 tatatattat at 1452

<210> 220

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(502)

<223> MAR of chromosome 2 genomic contig; 56350637..56351138

<400> 220

atatattata gaaatataaa tatatagata tatctatata ttatagaaat ataatatat 60
 agatatatct atattatata gaaatataaa tatatagata tatctatata ttatagaaat 120
 ataatatat agatatacct atattatata gaaatataaa tatatagata tacctatata 180
 ttatagaaat ataatatat agatatacct atattatata gaaatataaa tatatagata 240
 tatctatata ttatagaaat ataatatat agatatatct atattatata gaaatataaa 300
 tatatagata tatctatata ttatagaaat ataatatat agatatatct atattatata 360
 gaaatataaa tatatagata tatctatata ttatagaaat ataatatat agatatatct 420
 aacatatatg ttacatatta tatattatat atctatatat ctatataaca ttatatatct 480

atatactat ataacatata ta

502

<210> 221

<211> 794

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(794)

<223> MAR of chromosome 2 genomic contig; 57051633..57052426

<400> 221

aactatata actatattat atagttatac tatatatact atattatata gttatataac 60

tattatataa ctgtattata tagttatata actattatata aactgtatta tatagttata 120

taactattat ataactgtat tatatagtta tataactata ttatataact gtgttatata 180

gttatataat atataactat attatataac tgtattatata agttatata tatataacta 240

tattatataa ctgtattata tagttatata ttatataact atattatata actgtattat 300

atagttatata attatataac tgtattatata agttataaaa ctatattata taactgtatt 360

atatagttat aaaactacta tataactgta ttatataatt ataaaattat actatataac 420

tgtattatata agttataaaa ctatactata taactgtatt atatagttat aaaactatac 480

tatataactg tattatataag ttataaagct atactatata actgtattat atagttatata 540

aactatacta tataactgta ttatataagtt ataaaactat actatataac tgtattatata 600

agttataaaa ttatattata taactgtatt atatagttat ataactatata tatataactg 660

tattatataag ttatataact atattatata agtgtattat atagttatata aactatatta 720

tataactgta ttatcacggt atataactat attatataac tgtattatata acttatataa 780

SEL PCT 012.ST25
794

ctatattata taac

<210> 222

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(300)

<223> MAR of chromosome 2 genomic contig; 57069272..57069571

<400> 222

acacatacat atatgtatat atgcacacac atatatatgt atatatacac atacatatat 60

gtatatatac atatatgtat ataagcacat acatatatgt atatatacac gtacatatat 120

gtctctatat atacacatac acatatgtat atacatatat gtgtatatat acacaatcat 180

atatgtatat acatatatac acatatacac aaacatatat gtatatatac atatgtatat 240

acatatatac acatatacac aaacatatat gtatatatac atatgtatat acatacacia 300

<210> 223

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(370)

SEL PCT 012.ST25

<223> MAR of chromosome 2 genomic contig; 57235143..57235512

<400> 223

tattttata tataactata tatatttat atataaatta tatatatgat catatatata 60

atcatatata taatcatata tgattatata tgatcatata tatatttata tatataatta 120

tatatactta tatataatta tatatatatt tatatatata attatgtata cttatatata 180

tttatatata taattatata tacaatttat atataaatt atataaatt tatatataat 240

tatatatata aattatatat aagtatatat aattatatat atgtttatat ataattatat 300

atataaatga tatgtataat atataactat atataattat atataaatai atatatagat 360

tttatatata 370

<210> 224

<211> 306

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(306)

<223> MAR of chromosome 2 genomic contig; 57693125..57693430

<400> 224

tacgtatata cacgtataaaa tataaatata tacatgtata tacgtatata catgtataaaa 60

tataaatata tatatgtata tacgtatata catgtataaaa tatatatatg tatatacgta 120

tatacatgta taaatatata tatatgtata tacgtatata catgtataaaa tatatataca 180

tgtatatacg tatgttgtgt atacatacaa atctgtacat atatacatat atgttgtgtg 240

SEL PCT 012.ST25

tatatatata tctatacatg tgtatgcgta tatatgtata tgtatatata gtatatataa 300

tacatg 306

<210> 225

<211> 500

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(500)

<223> MAR of chromosome 2 genomic contig; 59810331..59810830

<400> 225

ttattatata gtaatatata ttgtattatt atatataata tatataatat atattgtatt 60

attatatata ttatatataa tatatattgt attattatat atattatata taatatatat 120

tgtattatta tatatattat atataatata tattgtatat tatatatatt atatattata 180

ttattatata ttatatatat tatattatta tatattatat attatatata ttatattata 240

tattatatat tatattatat atattatatt atatattata tattatatta tatatattat 300

attatatatt atatattata ttatatatat tatattatat atattatata ttatatatta 360

tatatattat atattatata ttatatatat tatatattat atataatata tattataita 420

ttatataata ttatatatta tatatattat atattatata taatatatat tatattatta 480

tataatatta tatattatat 500

<210> 226

<211> 565

<212> DNA

SEL PCT 012.ST25

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(565)

<223> MAR of chromosome 2 genomic contig; 59974589..59975153

<400> 226

```

atatatgtat aatatgtata tatgtatata ttatgtatat gttatatatg taatatatgt   60
atgtatatat tatatatcat atataatata taatgtgtat atatgtatat atgtaigtat   120
acatgtatat actatgtata tattgtatat attatatatg tatatataca tatacatata   180
taatatatac atatattata tacaatatat acatgtatat tatatacgat atatacatat   240
atattatata caatatatac atagtatata aatgtataca tacatacata tatacatatt   300
atatatgtat atatgtatac ataaatgtat atataatata tatacatata taaatgtata   360
catacgtaca tatacgtata tglatatgca tatatgtata tatgtgcata catatatatg   420
tatatacata tatgtacata tglacatata cgtatatatg tacatatgta catatacgta   480
tatatgtaca tatgtacata tacgtatata tgtacatatg tacatatacg tatatatgta   540
catatgtaca tatatacata tatat                                     565

```

<210> 227

<211> 427

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

SEL PCT 012.ST25

<222> (1)..(427)

<223> MAR of chromosome 2 genomic contig; 60605573..60605999

<400> 227

tatataatgt atataatgga tatagatata gatagata tatattttat ataatatata 60

ttatatatta tatataatat atgttatata tattatatat ttatatatat atatatttta 120

taiaaattat atatataata tatataatat atatattata tatattttat ataatatata 180

ttatatatta ttatttatatat attttatata atatatttt tatataatat ataatatata 240

atatatttt tacataatat ataatatata atacgtatta tatataatat ataatacgtta 300

tttatataaa tatataatac gtatttatata taatacgtat tatattattat ataatatata 360

atacgtatta tataatatac gtaattatat ttatttatata tacgtattat atatttatata 420

atatata 427

<210> 228

<211> 1199

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1199)

<223> MAR of chromosome 2 genomic contig; 61229949..61231147

<400> 228

gtatacatat ataaagtgt tatataatgt atatacatat atacatatat aaagtatata 60

tataatatat acatatataa agtatatata taatatatac atatafaaag tatatatatat 120

SEL PCT 012.ST25

atatacatat ataaagtata tataatatat acatatataa agtatatata tcatatatac 180
 atataaaag tatatatata atatatatat atatacatat ataaagtata tataacatat 240
 atacatatat aaagtatata taacatatat acatatataa agtatatata taatatatac 300
 atatatatat atataaagta tatataacat atatacatat atacagtata tataacatat 360
 atacatatat acagtatata taacatatat acatatatac agtatatata acatatatac 420
 atatatatag tatatataac atatatatat atatacatga agtatatata acatatatac 480
 atatatatat gaagtatata taacatatat acatatatac atgaagtata tataacatat 540
 atacatatat acatgaagta tatataacat atatacatat atacatatat aaagtatata 600
 taacatatat atatatatat atataaagta taacatatat atatatatat atataaagta 660
 tatataatat ataacatata catatataaa gtatatataa tatataacat atacatatat 720
 aaagtatata taatatataa catatacata tataaagtat atataatatata tacatatata 780
 catatataaa gtatatataa tatatatata catatataaa gtatatataa tatatatata 840
 tatatacata tataaagtat atataatatata tatatatata taaagtatat ataatatata 900
 tacatatata catatataaa gtatatataa tatatatata tatatacata tataaagtat 960
 atataatatata tatatatata tacatatata aagtatatat aatatatatata catatatata 1020
 tatataaagt atatatataa tatatatata tatatatata taaagtatat ataatatata 1080
 tacatatata catatataaa gtatatataa tatatatata tatatatata tataaagtat 1140
 atataatatg tatatatata tacatatata aagtatatat ataatatgta tacatatat 1199

<210> 229

<211> 454

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

SEL PCT 012.ST25

<222> (1)..(454)

<223> MAR of chromosome 2 genomic contig; 62181058..62181511

<400> 229

```
tatatatcat atattatata tgatatatat tatgtatata atacatatta tatataataa   60
atatttatta tataigatat atattatgta tataatacat attatatata ataaatatat   120
attatattat atataataaa tatatattat attatatata atatatattt atatataaat   180
atattatata taaatatata ttatatataa aatatttata tattatatat aaatatatat   240
tatatataaa tatttatata ttatatataa atatttatat attatatata aatatttata   300
tatttatatat aaaatatatt atatatatta tatatattat atatttatata taatatattt   360
aatatataat atataaacat atattatata taatatataa acatatataa atatatttat   420
atataataga taaaaatata tataatatat ataa                               454
```

<210> 230

<211> 658

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(658)

<223> MAR of chromosome 2 genomic contig; 62190919..62191576

<400> 230

```
tatatacaca actatatata taactatata tataacaacta tatatacaac tatatatata   60
actatatata taactatata taactatata tataactata tataactata tatataacta   120
```

SEL PCT 012.ST25

tatatataac tatataataac tatatatata actatatata actatatata actatatata 180
 taactatata tataactata tatataacta tatatataac tatatatact atatatafaa 240
 ctatatatat ataactatat atataactat atatataata ctatatataa ctatatatat 300
 ataactatat atataactat atatataata ctatatatat aactatatat atataactat 360
 atatataact atatatatat aactatatat aactatatat atataactat atatataact 420
 atatatatat aactatatat ataactatat atatataact atatataata ctatatatat 480
 ataactatat atataactat atatataact atatataata ctatatatat ataactatat 540
 atataactat atatataata ctatatatat aactatatat ataactatat atataactat 600
 atatataata ctatatatat aactatatat atataactat atatataact atatatat 658

<210> 231

<211> 1486

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(1486)

<223> MAR of chromosome 2 genomic contig; 62384127..62385612

<400> 231

attatatata atctattata tattatatct aatacatatt atatctaact tattgtatat 60
 tatatctaatt atataatata ttatatataa tatattatat attatatatt atatacaata 120
 tattatatat tatataatat ataatatatt atatataata tattatatct aatatattac 180
 atattataic taatctatta tagatataat atgtaatata ttatatatta tatctaataag 240
 atattagata taatatataa tatattatta atataatata ttagatataa tatataatat 300

SEL PCT 012.ST25

aataatataat aatatatatt atggtaata tataatataat aattaataat atattatata	360
tataattatt atgaataata tatcatatat aatatctagt atattatata ttaataacat	420
ataaatatta tattaataat aaataacata ttaattattat attaataata tataatatac	480
taattattata ttaataatata ataataatac aatatattat taataatata taatatacta	540
atattatatt aataatataat aataatactaa tattatatta ataataatata atatactaata	600
attatattaa taatatataa tataataata tattaagaat atataatata ctaatatatt	660
aagaatataat aataatactaa tattatatta ataataatata ttatattaa taatatatta	720
attattatta attaattatt aataattata taattattgat tatattaata ttatcaattt	780
aataatattg attatataat atattatata tattatataat tatattattat atattatata	840
ttatattatta ataataatata ttatataataa tataatataat taataatata taagatataa	900
tataatataat taataatata tattagatat aataataat attaataata tatattagat	960
ataataatata atattaataa tatattattag atataatata atattatatt aatatatatt	1020
agattgtaata taatatatta ataataatata ttatattgtaa tataatataat taataatata	1080
tattagattg aataataat attaataata tatattagat gtaataatata atattaataa	1140
tatatattag atgaataata atattatatt aatatatatt agattgtaata taatatatta	1200
ataataatata ttatattgtaa tataatataat taatatataat tagattgtaat ataataatatt	1260
aataatataat attagatata atataatata ttaataatata attagatata atataatata	1320
ttataatata atagatata atataatata ttaataatata atagatata atataatata	1380
ttataatata atagatata atataatata ttaataatata atattagata tataatataat	1440
taataatata tattagatat ctaatatcta ttatattctc aataga	1486

<210> 232

<211> 333

<212> DNA

<213> Homo sapiens

SEL PCT 012.ST25

<220>

<221> misc_binding

<222> (1)..(333)

<223> MAR of chromosome 2 genomic contig; 62538649..62538981

<400> 232

ttatatatat tatatatata tttttatat atatattata tatatatatt atatatatat 60

tatatatata ttttatatat atattatata tatattttat atatatatatta tatatatatt 120

ttatatatat tatatatata ttttatatat attatatata tttttatat atatattata 180

tatatatttt atatatatat tatatatata ttttatatat atattatata tatattttat 240

atatatatatta tatatatatt ttatatatat attatatata tttttatat atatattata 300

tatatatttt atatatatat tatatatata ttt 333

<210> 233

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(480)

<223> MAR of chromosome 2 genomic contig; 63240325..63240804

<400> 233

tatatataaa atatatatatt tttaaataata aaatataat atatittaat attaatatat 60

atatatttta atatataata tatataattat atattttata tataaaatat atatattata 120

SEL PCT 012.ST25

tattttatat ataaaatata tatattatat attttatata ttaaaatata tattttatat 180

attttaatta ttaaaatata tatattatat attttaata taaaatatat atattatata 240

tttaatatata taaaatatat atattatata tttaatatata taaaatatat atattttata 300

tttatatata taaatataata tatttatatat tttaatatata aaaatatata tatttatatat 360

tttaatatata aaaatatata tatttatatat tttaatatata aaaatatata tatttatatat 420

tttaatatata ataaaatata tatattatat attttatata tattaaatat atattttata 480

<210> 234

<211> 302

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(302)

<223> MAR of chromosome 2 genomic contig; 63935480..63935781

<400> 234

atatatataa atatatatat aattatatat agatatatat aattatatat agatatatat 60

attctatatt ctatatatat ataatatata atatataaat tatatataga atatatatta 120

tatataatat atttatatata ttatatataa tatatatatt atatatatta tatataatat 180

atatattata tatattatat ataatttata tatattatat atagaatatata tatttatatat 240

agaatataga atatatataa tatatataga atacagaata tatatagaat atagaatatata 300

ta 302

<210> 235

<211> 407

SEL PCT 012.ST25

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(407)

<223> MAR of chromosome 2 genomic contig; 63935888..63936294

<400> 235

tataatatat taatataata tatagacagt atataatata atatacagac agtatataat 60

atacagacag tatataatat ataattatt atataatatt atataataa ttatataata 120

tattatatta tatatattat ataattatt atattatata taatatatgt aattattat 180

attatattat acataatata ttatatataa tatattatat ataattatt atattattata 240

tataatatat ataataataa tattataata tataatatat aatagtacag tatatattat 300

atatataatt ctatatataa tatatagaat tctatctatt tataatatat atagaattct 360

atatataata tataatatac agaattctat atattattata tatagaa 407

<210> 236

<211> 302

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(302)

<223> MAR of chromosome 2 genomic contig; 66958350..66958651

SEL PCT 012.ST25

<400> 236

tattatata attgtatata tatgtatatt atatatattg tatatataat gtatattata 60

tatattatat atatatgtat attatatata ttgtatatat atgtatatia tatatatgt 120

atatatgtat atgtatatat gtatgtgtat atatatacac atatacacat atatgtgtat 180

gtatatatat gtgtgtatat acgtatatat acatatatac aattttgta tatatacata 240

tatacacata tatatgtgta tgtgtatatata tatacacata tatgtgtgtg tatatacaca 300

ta 302

<210> 237

<211> 651

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(651)

<223> MAR of chromosome 2 genomic contig; 68307125..68307775

<400> 237

gataattatat attgtatata ttatatatgt atataatata ctattatata ttatatatgt 60

atataatttt attaatatat atattatatt atattatata ttatattata ttatattata 120

tatataatat taatattata tattattata tattatatta tattaatatt atatatatat 180

aatatatata atatatataa tagtattata tataatatat ataatagtat tatatattat 240

atatatataa tactattata tatattatat ataatagtat tatatatatt atatatataa 300

tactattata tataatatat actattatat aatatatata atactattat atattattata 360

SEL PCT 012.ST25

tataatacta ttatatataa tatatataat actattatat ataatatata taatactatt 420
 atatataata tatataatac tattatatat aatatatata atactattat atataatata 480
 tataatacta ttatatataa tatatatatt atatataaft atattaatat ataatagtat 540
 catatataat aatagtatat ataatatata atatatatat tatatatatt ataatagtat 600
 atataacata taatatagta tatatattat atattatata taaaatattt a 651

<210> 238

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(367)

<223> MAR of chromosome 2 genomic config; 68308243..68308609

<400> 238

atatatatat atgagtcacac catacacata tatatatata atgtttatat atataatgta 60
 tatatatat gtttatatat aatgtatata tataatgttt atatataaa tglatatata 120
 taatgtttat atatataatg tatatatata atgtttatat atataatgtg tatatatat 180
 gtttatatat ataatgtgta tatataatgt ttatatataa tgtgtatata taatgtttat 240
 atatataatg tgtatatata atgtttatat atataatgtg tatatatat gtttatatat 300
 ataatgtgta tatatatat gtttatatat ataatgtgta tatatatat gtttatatat 360
 ataatgt 367

<210> 239

<211> 499

SEL PCT 012.ST25

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(499)

<223> MAR of chromosome 2 genomic contig; 410241..410739

<400> 239

ataatatgta tatatattat attatatatt atattacata ttatatatta tattacatat 60

tatatattta tatattacat attatatatt atattttata ttatatatta tatcatatat 120

atgttatgca ttatataata cataatatat tatatatgat ataatatata ttatatatta 180

ttatatataa tataattaat atattatgta ttatataata tatattatgt tataatatat 240

aatatatatt atataattat ataatatatt atgtattata taatatatat tatgttataa 300

tatattatat tatatatatt atatatatat tatatatata atgtatatta tatataaac 360

ataatatatt atatattata tattatttta tataatatat tatataatgt gatatatatt 420

ataatatatt atataacata gtaattata taatatatta tataatgtaa tatattatat 480

attatataat atattgtat 499

<210> 240

<211> 402

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

SEL PCT 012.ST25

<222> (1)..(402)

<223> MAR of chromosome 2 genomic contig; 31531..31932

<400> 240

cacattatat atataaacat tatatatata cacattatat atataaacat tatatatata 60

cacattatat atataaacat tatatatata cattatatat ataaacatta tatatacaca 120

ttatatatat aaacattata tatacaaatt atatatataa acattatatata tacaattat 180

atatataaac attatatata tacattatat atataaacat tatatatata cattatatat 240

ataaacatta tatatatata ttatatatat aaacattata tatatacatt atatatataa 300

acattatatata tatacattat atatatataaac gttatatata tacattatat atataaacat 360

tatatgtata cattatatat ataaacatta tatatatatg tg 402

<210> 241

<211> 421

<212> DNA

<213> Homo sapiens

<220>

<221> misc_binding

<222> (1)..(421)

<223> MAR of chromosome 2 genomic contig; 32415..32835

<400> 241

ataaatattt tatatatata atataatata tatactatat tataatgtat atatactatt 60

ataatatata taatatatat attatatatt atatatata ttatatata tgatactatt 120

atatattaat ataattatat ataatatata tattatataa tatactatta tatattatat 180

SEL PCT 012.ST25

ataatagtat attatataat atatatatta tatataatag tattatatat actattatat 240
 attatatata ttatatatat ataaaatata atataatata tataatatat aatattaata 300
 ttatatatat aatataatat aatatataat ataataat atatatatta ataaaattat 360
 attaatatat aatatataat agtatattat atacatatat aatatataca atatataata 420
 t 421