

pLexA(202+PL)

pBr ori

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1  AGCTGCATGT  GTCAGAGGTT  TTCACCGTCA  TCACCGAAAC  GCGCGAGGCA
   TCGACGTACA  CAGTCTCCAA  AAGTGGCAGT  AGTGGCTTTG  CGCGCTCCGT
.....
                                ADH1 promoter
51  GGATGATCCG  GGATCGAAGA  AATGATGGTA  AATGAAATAG  GAAATCAAGG
   CCTACTAGGC  CCTAGCTTCT  TTACTIONCAT  TTACTIONTATC  CTTTAGTTCC
.....
                                ADH1 promoter
101 AGCATGAAGG  CAAAAGACAA  ATATAAGGGT  CGAACGAAAA  ATAAAGTGAA
   TCGTACTTCC  GTTTTCTGTT  TATATTCCCA  GCTTGCTTTT  TATTTCACTT
.....
                                ADH1 promoter
151 AAGTGTTGAT  ATGATGTATT  TGGCTTTGCG  GCGCCGAAAA  AACGAGTTTA
   TTCACAATA  TACTACATAA  ACCGAAACGC  CGCGGCTTTT  TTGCTCAAAT
.....
                                ADH1 promoter
201 CGCAATTGCA  CAATCATGCT  GACTCTGTGG  CGGACCCGCG  CTCTTGCCGG
   GCGTTAACGT  GTTAGTACGA  CTGAGACACC  GCCTGGGCGC  GAGAACGGCC
.....
                                ADH1 promoter
251 CCCGGCGATA  ACGCTGGGCG  TGAGGCTGTG  CCCGGCGGAG  TTTTTTGCGC
   GGGCCGCTAT  TGCGACCCGC  ACTCCGACAC  GGGCCGCCTC  AAAAAACGCG
.....
                                ADH1 promoter
301 CTGCATTTTC  CAAGGTTTAC  CCTGCGCTAA  GGGGCGAGAT  TGGAGAAGCA
   GACGTAAAAG  GTTCCAAATG  GGACGCGATT  CCCCCTCTTA  ACCTCTTCGT
.....
                                ADH1 promoter
351 ATAAGAATGC  CGGTTGGGGT  TCGGATGATG  ACGACCACGA  CAACTGGTGT
   TATTCTTACG  GCCAACCCCA  ACGCTACTAC  TGCTGGTGCT  GTTGACCACA
.....
                                ADH1 promoter
401 CATTATTTAA  GTTGCCGAAA  GAACCTGAGT  GCATTTGCAA  CATGAGTATA
   GTAATAAATT  CAACGGCTTT  CTTGGACTCA  CGTAAACGTT  GACTCATAT
.....
                                ADH1 promoter
451 CTAGAAGAAT  GAGCCAAGAC  TTGCGAGACG  CGAGTTTGCC  GGTGGTGCGA
   GATCTTCTTA  CTCGGTTCTG  AACGCTCTGC  GCTCAAACGG  CCACCACGCT
.....
                                ADH1 promoter
501 ACAATAGAGC  GACCATGACC  TTGAAGGTGA  GACGCGCATA  ACCGCTAGAG
   TGTTATCTCG  CTGGTACTGG  AACTTCCACT  CTGCGCGTAT  TGCGGATCTC
.....
                                ADH1 promoter
551 TACTTTGAAG  AGGAAACAGC  AATAGGGTTG  CTACCAGTAT  AAATAGACAG
   ATGAAACTTC  TCCTTTGTGC  TTATCCCAAC  GATGGTCATA  TTTATCTGTC
.....
                                ADH1 promoter
601 GTACATACAA  CACTGGAAAT  GGTGTGTCTGT  TTGAGTACGC  TTTCAATTCA
   CATGTATGTT  GTGACCTTTA  CCAACAGACA  AACTCATGCG  AAAGTTAAGT
.....

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pLexA(202+PL)

ADH1 promoter

651 TTTGGGTGTG CACTTTATTA TGTTACAATA TGGAAGGGAA CTTTACACTT
AAACCCACAC GTGAAATAAT ACAATGTTAT ACCTTCCCTT GAAATGTGAA

ADH1 promoter

PacI

701 CTCCTATGCA CATATATTAA TTAAAGTCCA ATGCTAGTAG AGAAGGGGGG
GAGGATACGT GTATATAATT AATTTTCAGGT TACGATCATC TCTTCCCCC

ADH1 promoter

751 TAACACCCCT CCGCGCTCTT TTCCGATTTT TTTCTAAACC GTGGAATATT
ATTGTGGGGA GGC GCGAGAA AAGGCTAAAA AAAGATTTGG CACCTTATAA

ADH1 promoter

801 TCGGATATCC TTTTGTTGTT TCCGGGTGTA CAATATGGAC TTCCTCTTTT
AGCCTATAGG AAAACAACAA AGGCCACAT GTTATACCTG AAGGAGAAAA

ADH1 promoter

851 CTGGCAACCA AACCCATACA TCGGGATTCC TATAATACCT TCGTTGGTCT
GACCGTTGGT TTGGGTATGT AGCCCTAAGG ATATTATGGA AGCAACCAGA

ADH1 promoter

901 CCCTAACATG TAGGTGGCGG AGGGGAGATA TACAATAGAA CAGATACCAG
GGGATTGTAC ATCCACCGCC TCCCCTCTAT ATGTTATCTT GTCTATGGTC

ADH1 promoter

951 ACAAGACATA ATGGGCTAAA CAAGACTACA CCAATTACAC TGCCTCATTG
TGTTCTGTAT TACCCGATTT GTTCTGATGT GGTTAATGTG ACGGAGTAAC

ADH1 promoter

1001 ATGGTGGTAC ATAACGAACT AATACTGTAG CCCTAGACTT GATAGCCATC
TACCACCATG TATTGCTTGA TTATGACATC GGGATCTGAA CTATCGGTAG

ADH1 promoter

1051 ATCATATCGA AGTTTCACTA CCCTTTTTTCC ATTTGCCATC TATTGAAGTA
TAGTATAGCT TCAAAGTGAT GGGAAAAAGG TAAACGGTAG ATA ACTTCAT

ADH1 promoter

1101 ATAATAGGCG CATGCAACTT CTTTTCTTTT TTTTTCTTTT CTCTCTCCC
TATTATCCGC GTACGTTGAA GAAAAGAAAA AAAAAGAAAA GAGAGAGGGG

ADH1 promoter

1151 CGTTGTTGTC TCACCATATC CGCAATGACA AAAAAATGA TGAAGACAC
GCAACAACAG AGTGGTATAG GCGTTACTGT TTTTTTACT ACCTTCTGTG

ADH1 promoter

1201 TAAAGGAAAA AATTAACGAC AAAGACAGCA CCAACAGATG TCGTTGTTCC
ATTTCTTTT TTAATTGCTG TTTCTGTCGT GGTTGTCTAC AGCAACAAGG

ADH1 promoter

1251 AGAGCTGATG AGGGGTATCT TCGAACACAC GAAACTTTTT CCTTCCTTCA
TCTCGACTAC TCCCATAGA AGCTTGTGTG CTTTGAAAA GGAAGGAAGT

pLexA(202+PL)

ADH1 promoter

1301 TTCACGCACA CTACTCTCTA ATGAGCAACG GTATACGGCC TTCCTTCCAG
AAGTGC GTGT GATGAGAGAT TACTCGTTGC CATATGCCGG AAGGAAGGTC

ADH1 promoter

1351 TTA CTTGAAT TTGAAATAAA AAAAGTTTGC CGCTTTGCTA TCAAGTATAA
AATGAACTTA AACTTTATTT TTTTCAAACG GCGAAACGAT AGTTCATATT

ADH1 promoter

1401 ATAGACCTGC AATTATTAAT CTTTTGTTTC CTCGTCAATTG TTCTCGTTCC
TATCTGGACG TTAATAATTA GAAAACAAAG GAGCAGTAAC AAGAGCAAGG

ADH1 promoter

1451 CTTTCTTCCT TGTTTCTTTT TCTGCACAAT ATTTCAAGCT ATACCAAGCA
GAAAGAAGGA ACAAAGAAAA AGACGTGTTA TAAAGTTCGA TATGGTTCGT

ADH1 promoter

HindIII

LexA

+2

M K A L T

1501 TACAATCAAC TCCAAGCTTG AATTAATTCC GGGCGGAATG AAAGCGTTAA
ATGTTAGTTG AGGTTCGAAC TTAATTAAGG CCCGCCTTAC TTTCGCAATT

LexA

+2

T A R Q Q E V F D L I R D H I S Q

1551 CGGCCAGGCA ACAAGAGGTG TTTGATCTCA TCCGTGATCA CATCAGCCAG
GCCGGTCCGT TGTTCTCCAC AAAGTAGAGT AGGCACTAGT GTAGTCGGTC

LexA

+2

T G M P P T R A E I A Q R L G F R

1601 ACAGGTATGC CGCCGACGCG TGC GGAAATC GCGCAGCGTT TGGGGTTCCG
TGTTCCATACG GCGGCTGCGC ACGCCTTTAG CGCGTCGCAA ACCCCAAGGC

LexA

+2

R S P N A A E E H L K A L A R K G V

1651 TTCCCAAAC GCGGCTGAAG AACATCTGAA GGCGCTGGCA CGCAAAGGCG
AAGGGGTTTG CGCCGACTTC TTGTAGACTT CCGCGACCGT GCGTTTCCGC

LexA

+2

V I E I V S G A S R G I R L L Q E

1701 TTATTGAAAT TGTTTCCGGC GCATCACGCG GGATTCGTCT GTTGCAGGAA
AATAACTTTA ACAAAGGCCG CGTAGTGCGC CCTAAGCAGA CAACGTCTT

LexA

+2

E E E G L P L V G R V A A G E P L

1751 GAGGAAGAAG GGTTGCCGCT GGTAGGTCGT GTGGCTGCCG GTGAACCACT
CTCCTTCTTC CCAACGGCGA CCATCCAGCA CACCGACGGC CACTTGGTGA

LexA

+2

L L A Q Q H I E G H Y Q V D P S L F

1801 TCTGGCGCAA CAGCATATTG AAGGTCATTA TCAGGTCGAT CCTTCCTTAT
AGACCGCGTT GTCGTATAAC TTCCAGTAAT AGTCCAGCTA GGAAGGAATA

pLexA(202+PL)

LexA

+2 • F K P N A D F L L R V S G M S M K
 1851 TCAAGCCGAA TGCTGATTTC CTGCTGCGCG TCAGCGGGAT GTCGATGAAA
 AGTTCGGCTT ACGACTAAAG GACGACGCGC AGTCGCCCTA CAGCTACTTT

LexA

+2 D I G I M D G D L L A V H K T Q D •
 1901 GATATCGGCA TTATGGATGG TGACTTGCTG GCAGTGCATA AACTCAGGA
 CTATAGCCGT AATACCTACC ACTGAACGAC CGTCACGTAT TTTGAGTCCT

LexA

+2 • D V R N G Q V V V A R I D D E V T V •
 1951 TGTACGTAAC GGTCAGGTCG TTGTCGCACG TATTGATGAC GAAGTTACCG
 ACATGCATTG CCAGTCCAGC AACAGCGTGC ATAACTACTG CTTCAATGGC

LexA

+2 • V K R L K K Q G N K V E L L P E N
 2001 TTAAGCGCCT GAAAAACAG GGCAATAAAG TCGAACTGTT GCCAGAAAAT
 AATTCGCGGA CTTTTTTGTC CCGTTATTTT AGCTTGACAA CGGTCTTTTA

LexA

PmeI

+2 S E F K P I V V D L R Q Q S F T I •
 2051 AGCGAGTTTA AACCAATTGT CGTAGATCTT CGTCAGCAGA GCTTCACCAT
 TCGCTCAAAT TTGGTTAACA GCATCTAGAA GCAGTCGTCT CGAAGTGGTA

LexA

EcoRI

+2 • I E G L A V G V I R N G D W L
 2101 TGAAGGGCTG GCGGTTGGGG TTATTCGCAA CGGCGACTGG CTGGAATTCC
 ACTTCCCGAC CGCCAACCCC AATAAGCGTT GCCGCTGACC GACCTTAAGG

BamHI

ADH T

2151 CGGGGATCCG TCGACCTGCA GCCAAGCTAA TTCCGGGCGA ATTTCTTATG
 GCCCCTAGGC AGCTGGACGT CGGTTTCGATT AAGGCCCGCT TAAAGAATAC

ADH T

2201 ATTTATGATT TTTATTATTA AATAAGTTAT AAAAAAATA AGTGTATACA
 TAAATACTAA AAATAATAAT TTATTCAATA TTTTTTTTAT TCACATATGT

ADH T

2251 AATTTTAAAG TGACTCTTAG GTTTTAAAC GAAAATTCTT GTTCTTGAGT
 TTAAAATTTT ACTGAGAATC CAAAATTTTG CTTTTAAGAA CAAGAACTCA

ADH T

2301 AACTCTTTCC TGTAGGTCAG GTTGCTTTCT CAGGTATAGC ATGAGGTCGC
 TTGAGAAAGG ACATCCAGTC CAACGAAAGA GTCCATATCG TACTCCAGCG

pLexA(202+PL)

ADH T

2351 TCTTATTGAC CACACCTCTA CCGGCATGCC GAGCAAATGC CTGCAAATCG
AGAATAACTG GTGTGGAGAT GGCCGTACGG CTCGTTTACG GACGTTTACG

ADH T

2401 CTCCCATTT CACCCAATTG TAGATATGCT AACTCCAGCA ATGAGTTGAT
GAGGGGTAAG GTGGGTAAAC ATCTATACGA TTGAGGTCGT TACTCAACTA

ADH T

2451 GAATCTCGGT GTGTATTTTA TGTCTCAGA GGACAACACC TGTGTAAATC
CTTAGAGCCA CACATAAAAT ACAGGAGTCT CCTGTTGTGG ACAACATTAG

ADH T

2501 GTTCTTCCAC ACGGATCGAT CCACAGGACG GGTGTGGTGC CATGATCGC
CAAGAAGGTG TGCCTAGCTA GGTGTCCTGC CCACACCAGC GGTACTAGCG

2551 GTAGTCGATA GTGGCTCCAA GTAGCGAAGC GAGCAGGACT GGGCGGCGGC
CATCAGCTAT CACCGAGGTT CATCGCTTCG CTCGTCCTGA CCCGCCGCCG

2601 CAAAGCGGTC GGACAGTGCT CCGAGAACGG GTGCGCATAG AAATTGCATC
GTTTCGCCAG CCTGTACGA GGCTCTTGCC CACGCGTATC TTTAACGTAG

2651 AACGCATATA GCGCTAGCAG CACGCCATAG TGA CTGGCGA TGCTGTGCGA
TTGCGTATAT CGCGATCGTC GTGCGGTATC ACTGACCGCT ACGACAGCCT

2701 ATGGACGATA TCCCGCAAGA GGCCCGGCAG TACCGGCATA ACCAAGCCTA
TACCTGCTAT AGGGCGTTCT CCGGGCCGTC ATGGCCGTAT TGGTTCGGAT

2751 TGCCTACAGC ATCCAGGGTG ACGGTGCCGA GGATGACGAT GAGCGCATTG
ACGGATGTCG TAGGTCCCAC TGCCACGGCT CCTACTGCTA CTCGCGTAAC

2801 TTAGATTTCA TACACGGTGC CTGACTGCGT TAGCAATTTA ACTGTGATAA
AATCTAAAGT ATGTGCCACG GACTGACGCA ATCGTTAAAT TGACACTATT

2 μ m origin

2851 ACTACCGCAT TAAAGCTAGC TTTGAAGAAA AATGCGCCTT ATTCAATCTT
TGATGGCGTA ATTTTCGATCG AAAC TTCTTT TTACGCGGAA TAAGTTAGAA

2 μ m origin

2901 TGCTATAAAA AATGGCCCAA AATCTCACAT TGGAAGACAT TTGATGACCT
ACGATATTTT TTACCGGGTT TTAGAGTGTA ACCTTCTGTA AACTACTGGA

2 μ m origin

2951 CATTTCTTTC AATGAAGGGC CTAACGGAGT TGACTAATGT TGTGGGAAAT
GTAAAGAAAG TTA CT TCCCG GATTGCCTCA ACTGATTACA ACACCCTTTA

2 μ m origin

3001 TGGAGCGATA AGCGTGCTTC TGCCGTGGCC AGGACAACGT A TACTCATCA
ACCTCGCTAT TCGCACGAAG ACGGCACCGG TCCTGTTGCA TATGAGTAGT

2 μ m origin

3051 GATAACAGCA ATACCTGATC ACTACTTCGC ACTAGTTTCT CGGTACTATG
CTATTGTCGT TATGGACTAG TGATGAAGCG TGATCAAAGA GCCATGATAC

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2 μ m origin

3101 CATATGATCC AATATCAAAG GAAATGATAG CATTGAAGGA TGAGACTAAT
GTATACTAGG TTATAGTTTC CTTTACTATC GTAAC TTCCT ACTCTGATTA

2 μ m origin

3151 CCAATTGAGG AGTGGCAGCA TATAGAACAG CTAAAGGGTA GTGCTGAAGG
GGTTAACTCC TCACCGTCGT ATATCTTGTC GATTTCCCAT CACGACTTCC

2 μ m origin

3201 AAGCATA CGA TACCCCGCAT GGAATGGGAT AATATCACAG GAGGTACTAG
TTCGTATGCT ATGGGGCGTA CCTTACCCTA TTATAGTGTC CTCCATGATC

2 μ m origin

3251 ACTACCTTTC ATCCTACATA AATAGACGCA TATAAGTACG CATTTAAGCA
TGATGGAAAG TAGGATGTAT TTATCTGCGT ATATTCATGC GTAAATTCGT

2 μ m origin

3301 TAAACACGCA CTATGCCGTT CTTCTCATGT ATATATATAT ACAGGCAACA
ATTTGTGCGT GATACGGCAA GAAGAGTACA TATATATATA TGTCCGTTGT

2 μ m origin

3351 CGCAGATATA GGTGCGACGT GAACAGTGAG CTGTATGTGC GCAGCTCGCG
GCGTCTATAT CCACGCTGCA CTTGTCACTC GACATACAG CGTCGAGCGC

2 μ m origin

3401 TTGCATTTTC GGAAGCGCTC GTTTTCGGAA ACGCTTTGAA GTTCCTATTC
AACGTAAAAG CCTTCGCGAG CAAAAGCCTT TCGGAAACTT CAAGGATAAG

2 μ m origin

3451 CGAAGTTCCT ATTCTCTAGA AAGTATAGGA ACTTCAGAGC GCTTTTGAAA
GCTTCAAGGA TAAGAGATCT TTCATATCCT TGAAGTCTCG CGAAAAC TTT

2 μ m origin

3501 ACCAAAAGCG CTCTGAAGAC GCACTTTCAA AAAACCAAAA ACGCACCGGA
TGGTTTTTCGC GAGACTTCTG CGTGAAAGTT TTTTGGTTTT TGC GTGGCCT

2 μ m origin

3551 CTGTAACGAG CTAATAAAAT ATTGCGAATA CCGCTTCCAC AAACATTGCT
GACATTGCTC GATGATTTTA TAACGCTTAT GCGGAAGGTG TTTGTAA CGA

2 μ m origin

3601 CAAAAGTATC TCTTTGCTAT ATATCTCTGT GCTATATCCC TATATAACCT
GTTTTCATAG AGAAACGATA TATAGAGACA CGATATAGGG ATATATTGGA

2 μ m origin

3651 ACCCATCCAC CTTTCGCTCC TTGAACTTGC ATCTAAACTC GACCTCTACA
TGGGTAGGTG GAAAGCGAGG AACTTGAACG TAGATTTGAG CTGGAGATGT

2 μ m origin

3701 TTTTTTATGT TTATCTCTAG TATTACTCTT TAGACAAAAA AATTGTAGTA
AAAAAATACA AATAGAGATC ATAATGAGAA ATCTGTTTTT TTAACATCAT

pLexA(202+PL)

2 μ m origin

3751 AGAACTATTC ATAGAGTGAA TCGAAAACAA TACGAAAATG TAAACATTTTCT
TCTTGATAAG TATCTCACTT AGCTTTTGTGTT ATGCTTTTAC ATTTGTAAAG

2 μ m origin

3801 CTATACGTAG TATATAGAGA CAAAATAGAA GAAACCGTTC ATAATTTTCT
GATATGCATC ATATATCTCT GTTTTATCTT CTTTGGCAAG TATTAAGA

2 μ m origin

3851 GACCAATGAA GAATCATCAA CGCTATCACT TTCTGTTTAC AAAGTATGCG
CTGGTACTT CTTAGTAGTT GCGATAGTGA AAGACAAGTG TTTTCATACGC

2 μ m origin

3901 CAATCCACAT CGGTATAGAA TATAATCGGG GATGCCTTTA TCTTGAAAA
GTTAGGTGTA GCCATATCTT ATATTAGCCC CTACGGAAAT AGAACTTTTT

2 μ m origin

3951 ATGCACCCGC AGCTTCGCTA GTAATCAGTA AACGCGGGAA GTGGAGTCAG
TACGTGGGCG TCGAAGCGAT CATTAGTCAT TTGCGCCCTT CACCTCAGTC

2 μ m origin

4001 GCTTTTTTTTA TGGAAGAGAA AATAGACACC AAAGTAGCCT TCTTCTAACC
CGAAAAAAT ACCTTCTCTT TTATCTGTGG TTTCATCGGA AGAAGATTGG

2 μ m origin

4051 TTAACGGACC TACAGTGCAA AAAGTTATCA AGAGACTGCA TTATAGAGCG
AATTGCCTGG ATGTCACGTT TTTCAATAGT TCTCTGACGT AATATCTCGC

2 μ m origin

4101 CACAAAGGAG AAAAAAAGTA ATCTAAGATG CTTTGTTAGA AAAATAGCGC
GTGTTTCCCTC TTTTTTTCAT TAGATTCTAC GAAACAATCT TTTTATCGCG

2 μ m origin

4151 TCTCGGGATG CTTTTTTGTA GAACAAAAA GAAGTATAGA TTCTTTGTTG
AGAGCCCTAC GTAAAAACAT CTTGTTTTTTT CTTTCATATCT AAGAAACAAC

2 μ m origin

4201 GTAAAATAGC GCTCTCGCGT TGCATTTCTG TTCTGTAAAA ATGCAGCTCA
CATTTTATCG CGAGAGCGCA ACGTAAAGAC AAGACATTTT TACGTCGAGT

2 μ m origin

4251 GATTCTTTGT TTGAAAAATT AGCGCTCTCG CGTTGCATTT TTGTTTTTACA
CTAAGAAACA AACTTTTTTAA TCGCGAGAGC GCAACGTAAA AACAAAATGT

2 μ m origin

4301 AAAATGAAGC ACAGATTCTT CGTTGGTAAA ATAGCGCTTT CGCGTTGCAT
TTTTACTTCG TGTCTAAGAA GCAACCATTT TATCGCGAAA GCGCAACGTA

2 μ m origin

4351 TTCTGTTCTG TAAAATGCA GCTCAGATTC TTTGTTTGAA AAATTAGCGC
AAGACAAGAC ATTTTTACGT CGAGTCTAAG AAACAAACTT TTTAATCGCG

pLexA(202+PL)

2 μ m origin

4401 TCTCGCGTTG CATT TTTTGT CTACAAAATG AAGCACAGAT GCTTCGTTAA
AGAGCGCAAC GTAAAAACAA GATGTTTTAC TTCGTGTCTA CGAAGCAATT

2 μ m origin

4451 CAAAGATATG CTATTGAAGT GCAAGATGGA AACGCAGAAA ATGAACCGGG
GTTTCTATAC GATAACTTCA CGTTCTACCT TTGCGTCTTT TACTTGGCCC

2 μ m origin

4501 GATGCGACGT GCAAGATTAC CTATGCAATA GATGCAATAG TTTCTCCAGG
CTACGCTGCA CGTTCTAATG GATACGTTAT CTACGTTATC AAAGAGGTCC

2 μ m origin

4551 AACCGAAATA CATA CATTGT CTTCCGTAAA GCGCTAGACT ATATATTATT
TTGGCTTTAT GTATGTAACA GAAGGCATTT CGCGATCTGA TATATAATAA

2 μ m origin

4601 ATACAGGTTT AAATATACTA TCTGTTTCAG GGAAA ACTCC CAGGTTCCGGA
TATGTCCAAG TTTATATGAT AGACAAAGTC CCTTTTGAGG GTCCAAGCCT

2 μ m origin

4651 TGTTCAA AAT TCAATGATGG GTAACAAGTA CGATCGTAAA TCTGTAAAAC
ACAAGTTTTA AGTTACTACC CATTGTTTCAT GCTAGCATTT AGACATTTTG

2 μ m origin

4701 AGTTTGTCGG ATATTAGGCT GTATCTCCTC AAAGCGTATT CGAATATCAT
TCAAACAGCC TATAATCCGA CATAGAGGAG TTTCGCATAA GCTTATAGTA

2 μ m origin

4751 TGAGAAGCTG CAGCAGGCGT GAAGTTAGAC GACA ACTTCT CTCTGGA AAC
ACTCTTCGAC GTCGTCCGCA CTTCAATCTG CTGTTGAAGA GAGACCTTTG

4801 GCATACCGAT ATTCAGGCTG CTGCAAAGGC ACAGGCTAGT GCCCGTGCGA
CGTATGGCTA TAAGTCCGAC GACGTTTCCG TGTCCGATCA CGGGCACGCT

4851 GTGCATCCGG TACCACCCCA GATGCTGTAG TAGCTTCTGG TAGCACTGCA
CACGTAGGCC ATGGTGGGGT CTACGACATC ATCGAAGACC ATCGTGACGT

4901 ATGAGCCATG CTTATCAAGA AAACACAGGT TTTGGTACTC GTCCCATATA
TACTCGGTAC GAATAGTTCT TTTGTGTCCA AAACCATGAG CAGGGTATAT

4951 TCTTGACATG CAAGCCACTA CACCAACAGA CCCTAGGGTT TTGGATACGA
AGA ACTGTAC GTTCGGTGAT GTGGTTGTCT GGGATCCCAA AACCTATGCT

5001 TGTTGAAGTT TTATACGGGA CTTTATGGTA ATCCTCATTC CAACACTCAC
ACA ACTTCAA AATATGCCCT GAAATACCAT TAGGAGTAAG GTTGTGAGTG

5051 TCTTACGGTT GGGAAACAAA TACTGCTGTG GAAAATGCTA GAGCTCACGT
AGA ATGCCAA CCCTTTGTTT ATGACGACAC CTTTACGAT CTCGAGTGCA

5101 AGCAAAGATG ATCAATGCCG ACCCAAGGA AATAATATTC ACTTCGGGAG
TCGTTTCTAC TAGTTACGGC TGGGGTTCCT TTATTATAAG TGAAGCCCTC

5151 CGACCGAATC TAATAATATG GTTCTTAAGG GTGTCCAAG ATTTTATAAG
GCTGGCTTAG ATTATTATAC CAAGAATTCC CACAGGGTTC TAAAATATTC

pLexA(202+PL)

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5201 AAGACTAAGA AACACATCAT CACCACTAGA ACGGAACACA AGTGTGTCTT
      TTCTGATTCT TTGTGTAGTA GTGGTGATCT TGCCTTGTGT TCACACAGAA
.....
5251 GGAAGCCGCA CGGGCCATGA TGAAGGAGGG ATTTGAAGTC ACTTTCCTAA
      CCTTCGGCGT GCCCGGTACT ACTTCCTCCC TAAACTTCAG TGAAAGGATT
=====
5301 ATGTGGACGA TCAAGGTCTT ATCGATTTGA AGGAATTGGA AGATGCCATT
      TACACCTGCT AGTTCCAGAA TAGCTAAACT TCCTTAACCT TCTACGGTAA
.....
5351 AGACCAGATA CCTGTCTCGT CTCTGTGATG GCTGTCAATA ATGAAATCGG
      TCTGGTCTAT GGACAGAGCA GAGACACTAC CGACAGTTAT TACTTTAGCC
.....
5401 TGTCATTCAA CCTATTAAG AAATTGGAGC AATTTGTAGA AAGAATAAGA
      ACAGTAAGTT GGATAATTC TTTAACCTCG TTAAACATCT TTCTTATTCT
.....
5451 TCCTCGGGGA CACCAAATAT GCGGATCTCG GCCTTTTCGT TTCTTGAGC
      AGGAGCCCCT GTGGTTTATA CCGCTAGAGC CGGAAAAGCA AAGAACCTCG
=====
5501 TGGGACATGT TTGCCATCGA TCCATCTACC ACCAGAACGG CCGTTAGATC
      ACCCTGTACA AACGGTAGCT AGGTAGATGG TGGTCTTGCC GGCAATCTAG
=====
5551 TGCTGCCACC GTTGTTTCCA CCGAAGAAAC CACCGTTGCC GTAACCACCA
      ACGACGGTGG CAACAAAGGT GGCTTCTTTG GTGGCAACGG CATTGGTGGT
=====
5601 CGACGGTTGT TGCTAAAGAA GCTGCCACCG CCACGGCCAC CGTTGTAGCC
      GCTGCCAACA ACGATTTCTT CGACGGTGGC GGTGCCGGTG GCAACATCGG
.....
5651 GCCGTGTGTG TTATTGTAGT TGCTACTGTT ATTTCTGGCA CTTCTTGGTT
      CGGCAACAAC AATAACATCA ACGATGACAA TAAAGACCGT GAAGAACCAA
.....
5701 TTCCTCTTAA GTGAGGAGGA ACATAACCAT TCTCGTTGTT GTCGTTGATG
      AAGGAGAATT CACTCCTCCT TGTATTGGTA AGAGCAACAA CAGCAACTAC
.....
5751 CTAAATTTT GCACCTTGTC GCTCAGTTCA GCCATAATAT GAAATGCTTT
      GAATTTAAAA CGTGAACAAG CGAGTCAAGT CGGTATTATA CTTTACGAAA
=====
5801 TCTTGTTGTT CTTACGGAAT ACCACTTGCC ACCTATCACC ACAACTAACT
      AGAACAACAA GAATGCCTTA TGGTGAACGG TGGATAGTGG TGTTGATTGA
.....
5851 TTTTCCCGTT CCTCCATCTC TTTTATATTT TTTTCTCGA TCGAGTTCAA
      AAAAGGGCAA GGAGGTAGAG AAAATATAAA AAAAAGAGCT AGCTCAAGTT
=====
5901 GAGAAAAAAA AAGAAAAAGC AAAAAGAAAA AAGGAAAGCG CGCCTCGTTC
      CTCTTTTTTT TTCTTTTTTCG TTTTCTTTT TTCCTTTCGC GCGGAGCAAG
=====
5951 AGAATGACAC GTATAGAATG ATGCATTACC TTGTCATCTT CAGTATCATA
      TCTTACTGTG CATATCTTAC TACGTAATGG AACAGTAGAA GTCATAGTAT
.....
6001 CTGTTTCGTAT ACATACTTAC TGACATTCAT AGGTATACAT ATATACACAT
      GACAAGCATA TGTATGAATG ACTGTAAGTA TCCATATGTA TATATGTGTA
.....
6051 GTATATATAT CGTATGCTGC AGCTTTAAAT AATCGGTGTC ACTACATAAG
      CATATATATA GCATACGACG TCGAAATTTA TTAGCCACAG TGATGTATTC
      HIS3
=====
6101 AACACCTTTG GTGGAGGGAA CATCGTTGGT ACCATTGGGC GAGGTGGCTT
      TTGTGGAAAC CACCTCCCTT GTAGCAACCA TGGTAACCCG CTCCACCGAA
      HIS3
.....

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pLexA(202+PL)

6151 CTCTTATGGC AACCGCAAGA GCCTTGAACG CACTCTCACT ACGGTGATGA
 GAGAATACCG TTGGCGTTCT CGGAACCTGC GTGAGAGTGA TGCCACTACT

HIS3

6201 TCATTCTTGC CTCGCAGACA ATCAACGTGG AGGGTAATTC TGCTAGCCTC
 AGTAAGAACG GAGCGTCTGT TAGTTGCACC TCCCATTAAG ACGATCGGAG

HIS3

^{HindIII}
 6251 TGCAAAGCTT TCAAGAAAAT GCGGGATCAT CTCGCAAGAG AGATCTCCTA
 ACGTTTCGAA AGTTCTTTTA CGCCCTAGTA GAGCGTTCTC TCTAGAGGAT

HIS3

6301 CTTTCTCCCT TTGCAAACCA AGTTCGACAA CTGCGTACGG CCTGTTTCGAA
 GAAAGAGGGA AACGTTTGGT TCAAGCTGTT GACGCATGCC GGACAAGCTT

HIS3

6351 AGATCTACCA CCGCTCTGGA AAGTGCCTCA TCCAAAGGCG CAAATCCTGA
 TCTAGATGGT GGCGAGACCT TTCACGGAGT AGGTTTCCGC GTTTAGGACT

HIS3

6401 TCCAAACCTT TTTACTCCAC GCGCCAGTAG GGCCTCTTTA ^{HindIII}
 AGGTTTGGAA AAATGAGGTG CGCGGTCATC CCGGAGAAAT TTTCGAACTG

HIS3

6451 CGAGAGCAAT CCCGCAGTCT TCAGTGGTGT GATGGTCGTC TATGTGTAAG
 GCTCTCGTTA GGGCGTCAGA AGTCACCACA CTACCAGCAG ATACACATTC

HIS3

6501 TCACCAATGC ACTCAACGAT TAGCGACCAG CCGGAATGCT TGGCCAGAGC
 AGTGGTTACG TGAGTTGCTA ATCGCTGGTC GGCCTTACGA ACCGGTCTCG

HIS3

6551 ATGTATCATA TGGTCCAGAA ACCCTATAACC TGTGTGGACG TTAATCACTT
 TACATAGTAT ACCAGGTCTT TGGGATATGG ACACACCTGC AATTAGTGAA

HIS3

6601 GCGATTGTGT GGCCTGTTCT GCTACTGCTT CTGCCTCTTT TTCTGGGAAG
 CGCTAACACA CCGGACAAGA CGATGACGAA GACGGAGAAA AAGACCCTTC

HIS3

6651 ATCGAGTGCT CTATCGCTAG GGGACCACCC TTAAAGAGA TCGCAATCTG
 TAGCTCACGA GATAGCGATC CCCTGGTGGG AAATTTCTCT AGCGTTAGAC

HIS3

6701 AATCTTGGTT TCATTTGTAA TACGCTTTAC TAGGGCTTTC TGCTCTGTCA
 TTAGAACCAA AGTAAACATT ATGCGAAATG ATCCCGAAAG ACGAGACAGT

HIS3

pLexA(202+PL)

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6751 TCTTTGCCTT CGTTTATCTT GCCTGCTCAT TTTTLAGTAT ATTCTTCGAA
      AGAAACGGAA GCAAATAGAA CGGACGAGTA AAAAATCATA TAAGAAGCTT
      HIS3
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6801 GAAATCACAT TACTTTATAT AATGTATAAT TCATTATGTG ATAATGCCAA
      CTTTAGTGTA ATGAAATATA TTACATATTA AGTAATACAC TATTACGGTT
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6851 TCGCTAAGAA AAAAAAAGAG TCATCCGCTA GGTGGAAAAA AAAAAATGAA
      AGCGATTCTT TTTTTTCTC AGTAGGCGAT CCACCTTTTT TTTTTTACTT
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6901 AATCATTACC GAGGCATAAA AAAATATAGA GTGTACTAGA GGAGGCCAAG
      TTAGTAATGG CTCCGTATTT TTTTATATCT CACATGATCT CCTCCGGTTC
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6951 AGTAATAGAA AAAGAAAATT GCGGGAAAGG ACTGTGTTAT GACTTCCCTG
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7001 ACTAATGCCG TGTTCAAACG ATACCTGGCA GTGACTCCTA GCGCTCACCA
      TGATTACGGC ACAAGTTTGC TATGGACCGT CACTGAGGAT CGCGAGTGGT
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7051 AGCTCTTAAA ACGAGAATTA AGAAAAAGTC GTCATCTTTC GATAAGTTTT
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7101 TCCCACAGCA AAGCAATAGT AGAAAAACAA TGGGAAACGT TGAATGAAGA
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7151 CAAAGCGTCG TGGTTTAAAA GGAAATACGC TCACGTACAT GCTAGGGAAC
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7251 TGTTTTTATC GGAAGAGGTT TTGTCATCAC ATCAGCAATG TTCTTCTTGG
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7301 TCTCGATGTA GTATACGTAT AAATTATTAC CTGATACTTC ATCTCTAAGT
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7351 CTCATTGCCT TTGTGCCAAA AAATCTGTTT CTAAATTTCT CTTCATTTGT
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7401 AGACTTAATT ATACTGATCG TTGATCTACT ATCAGTAAGT AAGCCTTTAA
      TCTGAATTAA TATGACTAGC AACTAGATGA TAGTCATTCA TTCGGAAATT
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7451 AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA CTGTAACAAT AGCAATACCC
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7501 CAAATACCTA ATGTAGTTCC AGCAAGCAAG CTAAAAAGTA AAGCAACAAC
      GTTTATGGAT TACATCAAGG TCGTTCGTTT GATTTTTTCAT TTCGTTGTTG
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7551 ATAACTCACC CCTGCATCTG CAGCTTTTGC CCGGGCAGCC TGCTCTGCCT
      TATTGAGTGG GGACGTAGAC GTCGAAAACG GGCCCGTCGG ACGAGACGGA
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7601 GTGTTTTCTT TAATTGAGCA GTAGACCATT TAGCAGTTGC ATGAATAGCT
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7651 GCAGCGTCAC ATCGGATAAT AATGATGGCA GCCATTGTAG AAGTGCCTTT
      CGTCGCAGTG TAGCCTATTA TTACTACCGT CGGTAACATC TTCACGGAAA
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7701 TGCATTTCTA GTCTCTTCTT CGGTCTAGCT AGTTTTACTA CATCGCGAAG
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pLexA(202+PL)

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7901 TTCTTGAAGA CGAAAGGGCC TCGTGATACG CCTATTTTTA TAGGTTAATG
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ampR
8101 GGAAGAGTAT GAGTATTCAA CATTTCCGTG TCGCCCTTAT TCCCTTTTTT
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ampR
8151 GCGGCATTTT GCCTTCCTGT TTTTGCTCAC CCAGAAACGC TGGTGAAAGT
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ampR
8201 AAAAGATGCT GAAGATCAGT TGGGTGCACG AGTGGGTTAC ATCGAACTGG
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ampR
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ampR
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ampR
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ampR
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pLexA(202+PL)

ampR

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ampR

8601 CCGGAGCTGA ATGAAGCCAT ACCAAACGAC GAGCGTGACA CCACGATGCC
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ampR

8651 TGCAGCAATG GCAACAACGT TGCGCAAAC TTTAACTGGC GAACTACTTA
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ampR

8701 CTCTAGCTTC CCGGCAACAA TTAATAGACT GGATGGAGGC GGATAAAGTT
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ampR

8751 GCAGGACCAC TTCTGCGCTC GGCCCTTCCG GCTGGCTGGT TTATTGCTGA
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ampR

8801 TAAATCTGGA GCCGGTGAGC GTGGGTCTCG CGGTATCATT GCAGCACTGG
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ampR

8851 GGCCAGATGG TAAGCCCTCC CGTATCGTAG TTATCTACAC GACGGGGAGT
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ampR

8901 CAGGCAACTA TGGATGAACG AAATAGACAG ATCGCTGAGA TAGGTGCCTC
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ampR

pBr ori

8951 ACTGATTAAG CATTGGTAAC TGTCAGACCA AGTTTACTCA TATATACTTT
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pBr ori

9001 AGATTGATTT AAAACTTCAT TTTTAATTTA AAAGGATCTA GGTGAAGATC
TCTAACTAAA TTTTGAAGTA AAAATTAAT TTTCTAGAT CCACTTCTAG

pBr ori

9051 CTTTTTGATA ATCTCATGAC CAAAATCCCT TAACGTGAGT TTTCGTTCCA
GAAAAACTAT TAGAGTACTG GTTTTAGGGA ATTGCACTCA AAAGCAAGGT

pBr ori

9101 CTGAGCGTCA GACCCCGTAG AAAAGATCAA AGGATCTTCT TGAGATCCTT
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pBr ori

9151 TTTTTCTGCG CGTAATCTGC TGCTTGCAAA CAAAAAACC ACCGCTACCA
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pLexA(202+PL)

pBr ori

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CGCCACCAAA CAAACGGCCT AGTTCTCGAT GGTTGAGAAA AAGGCTTCCA

pBr ori

9251 AACTGGCTTC AGCAGAGCGC AGATACCAAA TACTGTCCTT CTAGTGTAGC
TTGACCGAAG TCGTCTCGCG TCTATGGTTT ATGACAGGAA GATCACATCG

pBr ori

9301 CGTAGTTAGG CCACCACTTC AAGAACTCTG TAGCACCGCC TACATACCTC
GCATCAATCC GGTGGTGAAG TTCTTGAGAC ATCGTGGCGG ATGTATGGAG

pBr ori

9351 GCTCTGCTAA TCCTGTTACC AGTGGCTGCT GCCAGTGGCG ATAAGTCGTG
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pBr ori

9401 TCTTACCGGG TTGGACTCAA GACGATAGTT ACCGGATAAG GCGCAGCGGT
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pBr ori

9451 CGGGCTGAAC GGGGGGTTTC TGCACACAGC CCAGCTTGA GCGAACGACC
GCCCGACTTG CCCCCAAGC ACGTGTGTCG GGTCGAACCT CGCTTGCTGG

pBr ori

9501 TACACCGAAC TGAGATACCT ACAGCGTGAG CTATGAGAAA GCGCCACGCT
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pBr ori

9551 TCCCGAAGGG AGAAAGGCGG ACAGGTATCC GGTAAGCGGC AGGGTCGGAA
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pBr ori

9601 CAGGAGAGCG CACGAGGGAG CTTCCAGGGG GAAACGCCTG GTATCTTTAT
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pBr ori

9651 AGTCCTGTCG GGTTTCGCCA CCTCTGACTT GAGCGTCGAT TTTTGTGATG
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pBr ori

9701 CTCGTCAGGG GGGCGGAGCC TATGGAAAAA CGCCAGCAAC GCGGCCTTTT
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pBr ori

9751 TACGGTTCCT GGCCTTTTGC TGGCCTTTTG CTCACATGTT CTTTCCTGCG
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pBr ori

9801 TTATCCCCTG ATTCTGTGGA TAACCGTATT ACCGCCTTTG AGTGAGCTGA
AATAGGGGAC TAAGACACCT ATTGGCATAA TGGCGGAAAC TCACTCGACT

pLexA(202+PL)

pBr ori

9851 TACCGCTCGC CGCAGCCGAA CGACCGAGCG CAGCGAGTCA GTGAGCGAGG
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pBr ori

9901 AAGCGGAAGA GCGCCTGATG CGGTATTTTC TCCTTACGCA TCTGTGCGGT
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pBr ori

9951 ATTTACACACC GCATATGGTG CACTCTCAGT ACAATCTGCT CTGATGCCGC
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pBr ori

10001 ATAGTTAAGC CAGTATACAC TCCGCTATCG CTACGTGACT GGGTCATGGC
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pBr ori

10051 TGCGCCCGA CACCCGCCAA CACCCGCTGA CGCGCCCTGA CGGGCTTGTC
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pBr ori

10101 TGCTCCCGGC ATCCGCTTAC AGACAAGCTG TGACCGTCTC CGGG
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