Fig. 1

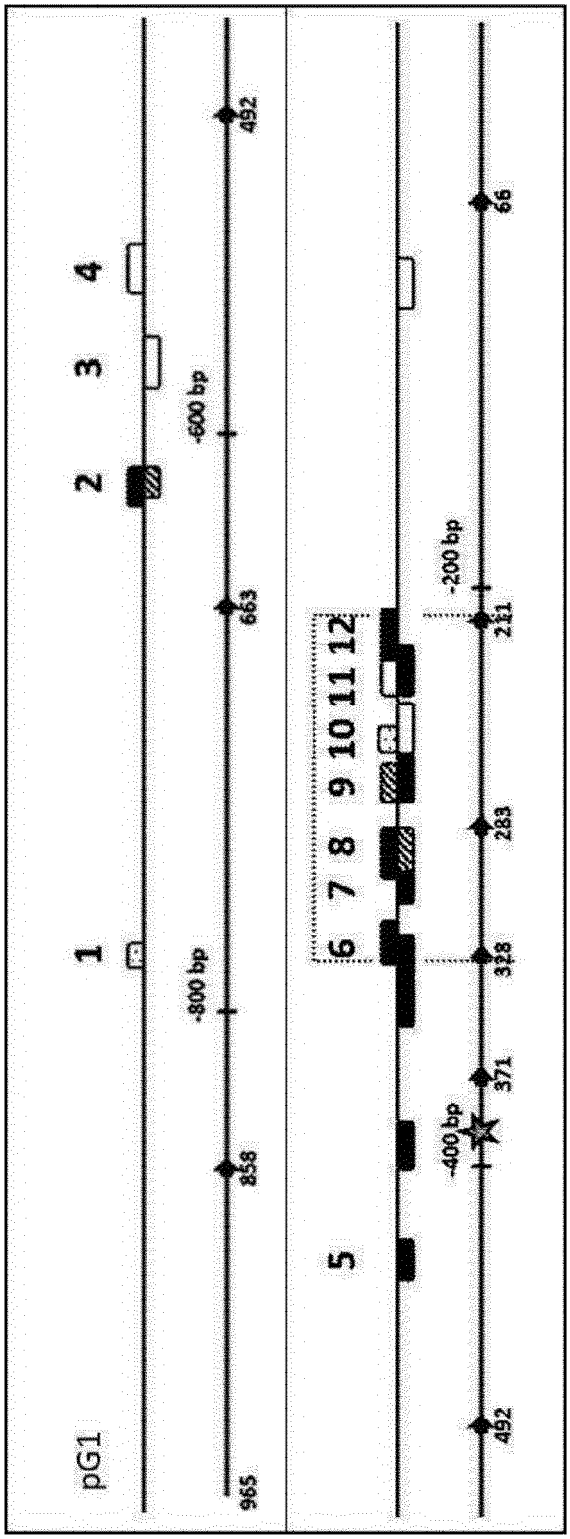

pG1
965
858
663
492
-800 bp
-600 bp
1
2
3
4
5
6
7
8
9
10
11
12
492
371
328
283
211
66
-400 bp
-200 bp

Fig. 2

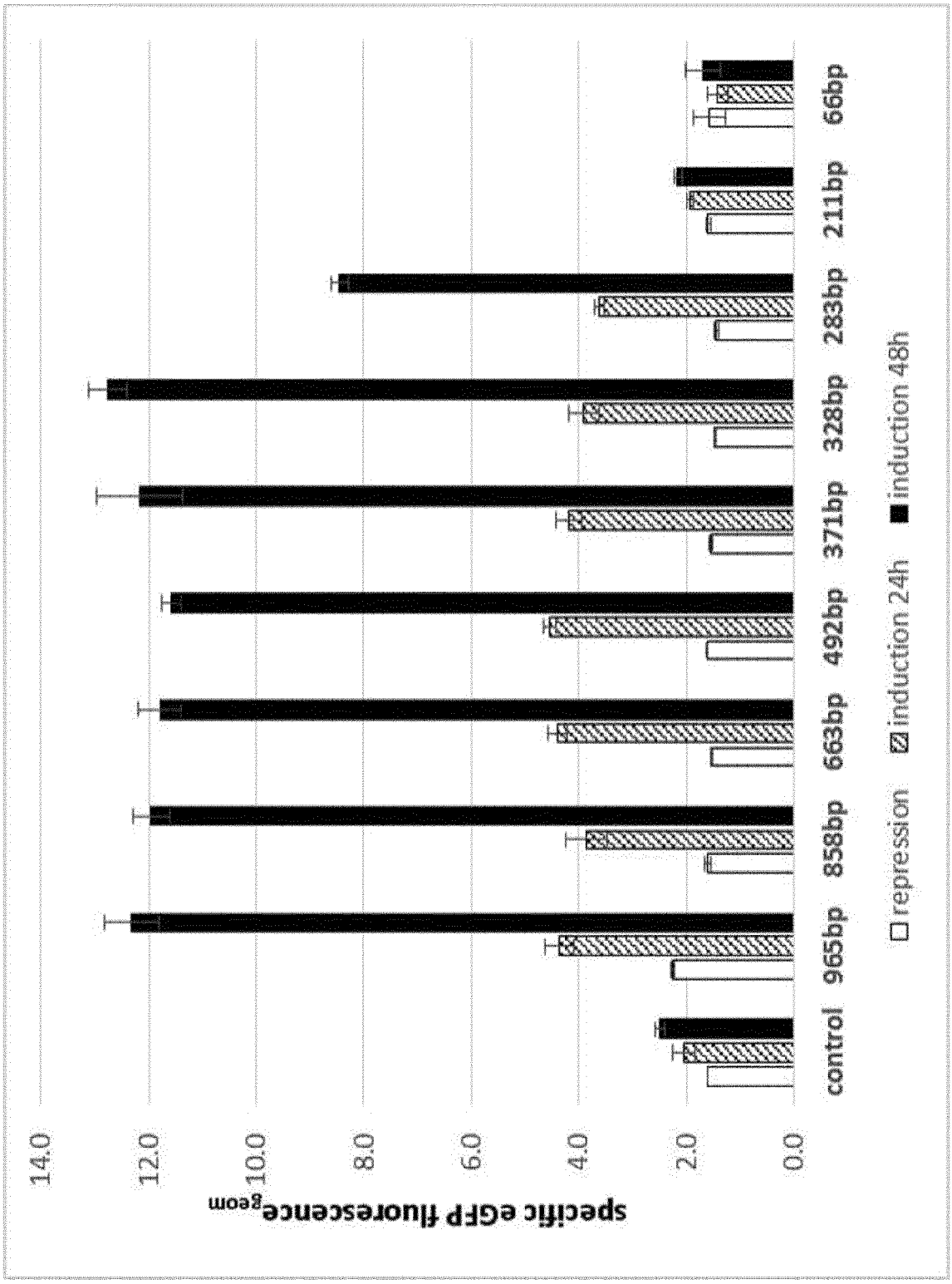

specific eGFP fluorescence geom
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
control
965bp
858bp
663bp
492bp
371bp
328bp
283bp
211bp
66bp
repression
induction 24h
induction 48h

Fig. 3

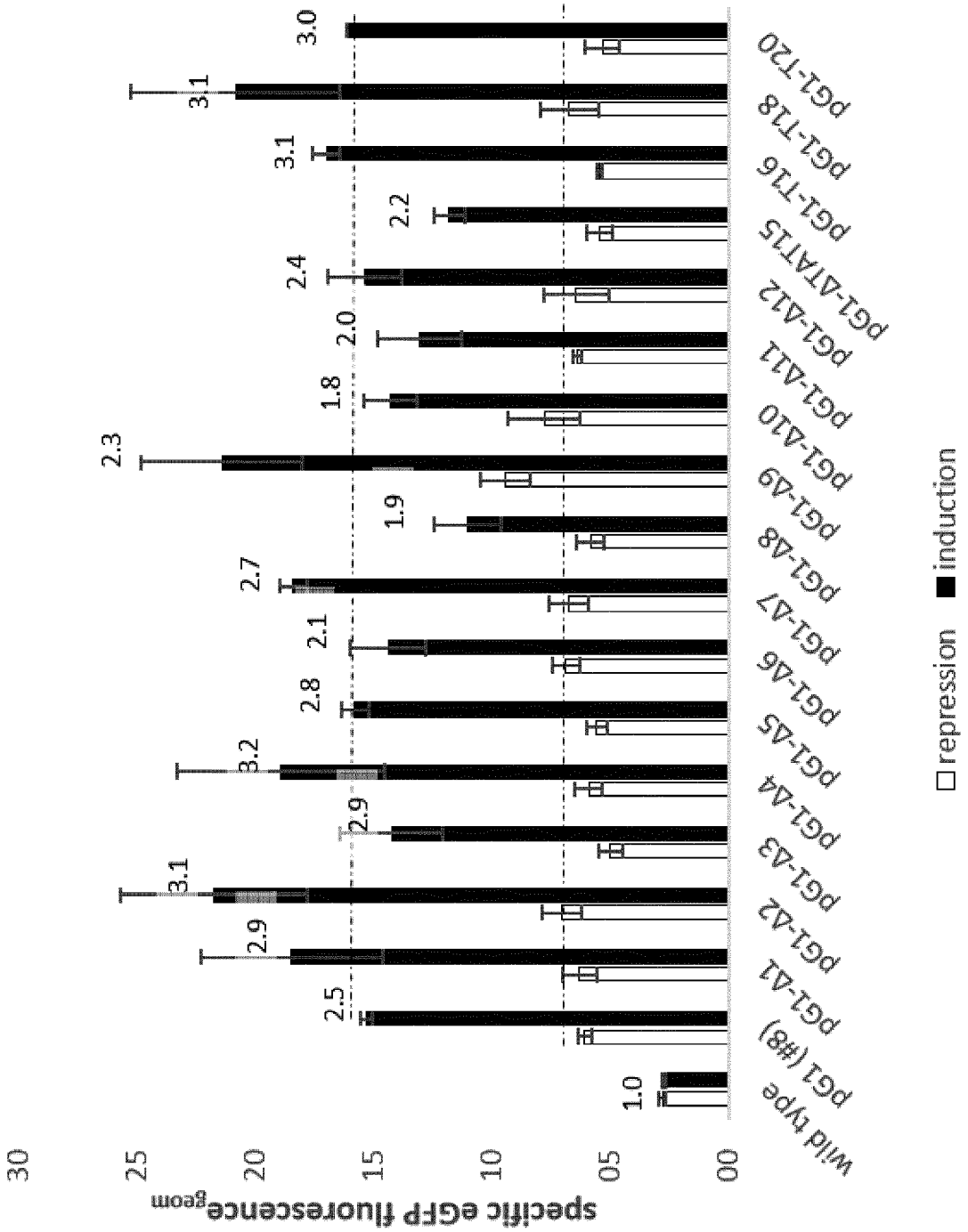

specific eGFP fluorescence geom
00
05
10
15
20
25
30
wild type
pG1 (#8)
pG1-A1
pG1-A2
pG1-A3
pG1-A4
pG1-A5
pG1-A6
pG1-A7
pG1-A8
pG1-A9
pG1-A10
pG1-A11
pG1-A12
pG1-ATAT15
pG1-T16
pG1-T18
pG1-T20
1.0
2.5
2.9
3.1
2.9
3.2
2.8
2.1
2.7
1.9
2.3
1.8
2.0
2.4
2.2
3.1
3.1
3.0
repression
induction

Fig. 4

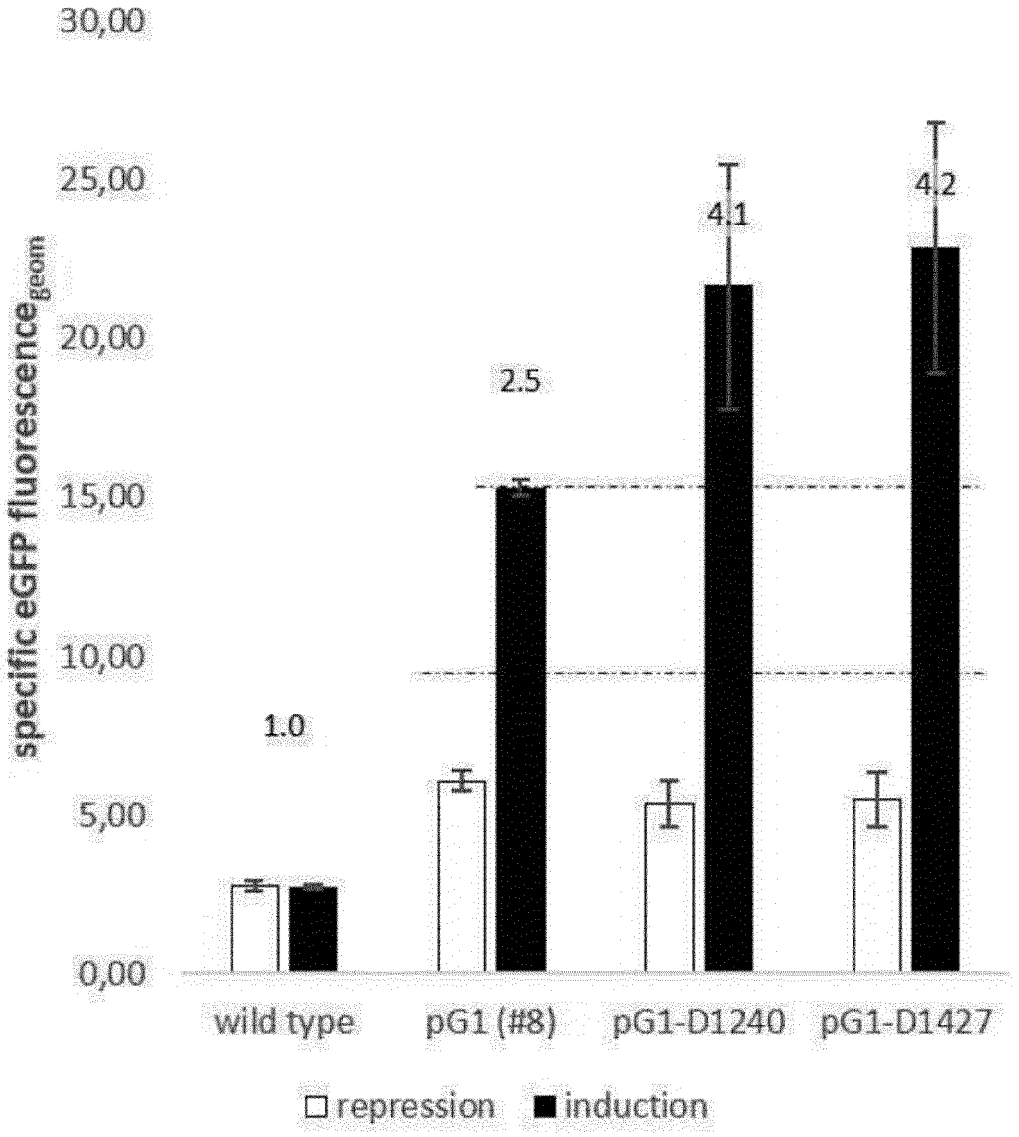

30,00
25,00
20,00
15,00
10,00
5,00
0,00
specific eGFP fluorescence geom
1.0
2.5
4.1
4.2
wild type
pG1 (#8)
pG1-D1240
pG1-D1427
repression
induction

Figure 5

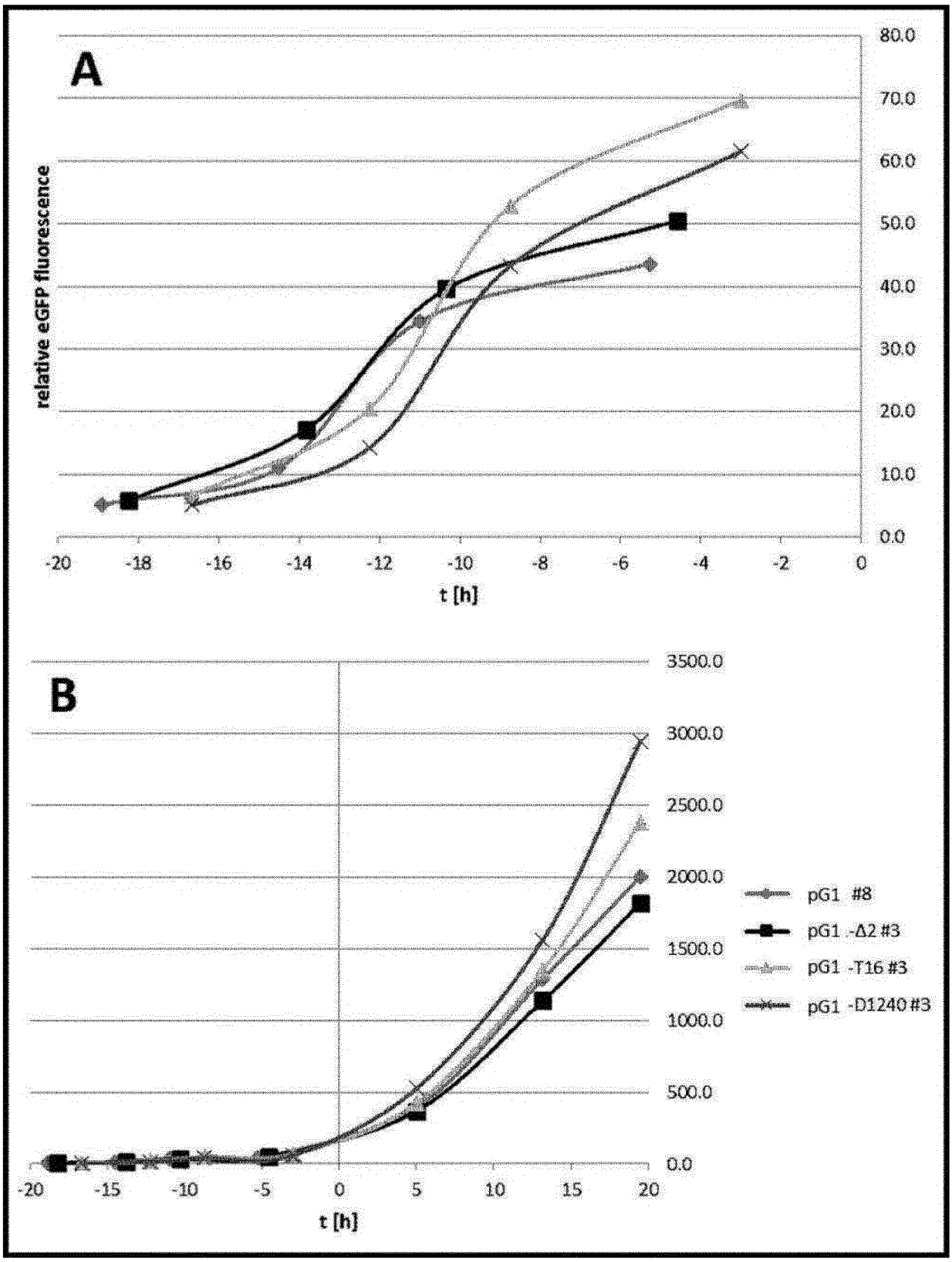

A
relative eGFP fluorescence
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
-20
-18
-16
-14
-12
-10
-8
-6
-4
-2
0
t [h]
B
3500.0
3000.0
2500.0
2000.0
1500.0
1000.0
500.0
0.0
-20
-15
-10
-5
0
5
10
15
20
t [h]
pG1 #8
pG1 -Δ2 #3
pG1 -T16 #3
pG1 -D1240 #3

Fig. 6 sequences

Indications in sequences:

- Main regulatory region: **bold**
- Core regulatory region: ***bold, italic and underlined***, SEQ ID 2 and 3 ***double underlined***
- T motif: *italic and underlined*, may be optionally extended (at the 5'-terminal end of the T motif) by a preceding TA sequence, or (at the 3'-terminal end of the T motif) by a succeeding AT sequence
- 3'-terminal region: underlined with dotted line
- Region less relevant for promoter activity in the reference pG1 (P_{GTH1}) sequences: underlined with a dash-dot line: one or more nucleotides up to all nucleotides within the region ranging from the 5'-terminal end to -328 (region underlined in Fig. 6a with a dash-dot line) may be substituted, or deleted, or further nucleotides may be inserted within such region, however, preferred embodiments still comprise at least one T motif which is (T)n (n=13-20) with or without preceding preceding A or TA nucleotides; or with or without succeeding A or AT nucleotides
- Deletion: del (underlined)

Fig. 6a: Reference sequences

pG1 (P_{GTH1}) comprising the $TA(T)_n$ motif, n=14-16:

SEQ ID 1

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAA
TTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATA***
***TTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTA
ATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTA
TTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGA
TGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Sequence without indications (SEQ ID 1):

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGCTAXGATGACCCCGTTTTCGTGACAAATTAATT
TCCAACGGGGTCTTGTCCGGATAAGAGAATTTTGTTTGATTATCCGTTCGGATAAATGGACGCCTGCTCCATATTT
TTCCGGTTATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATT
AATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTG
GATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGC
AGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

X...(T)n wherein n is 14-16

Position 8 (SEQ ID 2): *ATAAATGGA* (e.g. position -293 to -285 in SEQ ID 9):

Position 9 (SEQ ID 3): *CATATTTTTCCGGTT* (e.g. position -275 to-261 in SEQ ID 9)

Core region: (SEQ ID 4): *ATAAATGGACGCCTGCTCCATATTTTTCCGGTT* (e.g. position -293 to -261 in SEQ ID 9)

Main regulatory region: (SEQ ID 5): (e.g. position -328 to -211 in SEQ ID 9):

CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCC CACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC

3'-terminal nucleotide sequence (SEQ ID 6): TTCCACCCTT

Fig. 6a continued

pG1 (P_{GTH1}) comprising the $TA(T)_{14}$ motif

SEQ ID 7

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCGT
GACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACG***
***CCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGT
GGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGAT
GAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATG
ATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1 (P_{GTH1}) comprising the $TA(T)_{14}$ motif

SEQ ID 7 sequence as above, indicating the position numbering from -964 to -1

```
 -964 CAAACATTTG CTCCCCCTAG TCTCCAGGGA AATGTAAAAT ATACTGCTAA
 -914 TAGAAAACAG TAAGACGCTC AGTTGTCAGG ATAATTACGT TCGACTGTAG
 -864 TAAAACAGGA ATCTGTATTG TTAGAAAGAA CGAGAGTTTT TTACGGCGCC
 -814 GCCATATTGG GCCGTGTGAA AACAGCTTGA AACCCCACTA CTTTCAAAGG
 -764 TTCTGTTGCT ATACACGAAC CATGTTTAAC CAACCTCGCT TTTGACTTGA
 -714 CTGAAGTCAT CGGTTAACAA TCAAGTACCC TAGTCTGTCT GAATGCTCCT
 -664 TTCCATATTC AGTAGGTGTT TCTTGCACTT TTGCATGCAC TGCGGAAGAA
 -614 TTAGCCAATA GCGCGTTTCA TATGCGCTTT TACCCCCTCT TTTGTCAAGC
 -564 GCAAAATGCC TGTAAGATTT GGTGGGGGTG TGAGCCGTTA GCTGAAGTAC
 -514 AACAGGCTAA TTCCCTGAAA AAACTGCAGA TAGACTTCAA GATCTCAGGG
 -464 ATTCCCACTA TTTGGTATTC TGATATGTTT TTCCTGATAT GCATCAAAAC
 -414 TCTAATCTAA AACCTGAATC TCCGCTATTT TTTTTTTTTT TGATGACCCC
 -364 GTTTTCGTGA CAAATTAATT TCCAACGGGG TCTTGTCCGG ATAAGAGAAT
 -314 TTTGTTTGAT TATCCGTTCG GATAAATGGA CGCCTGCTCC ATATTTTTCC
 -264 GGTTATTACC CCACCTGGAA GTGCCCAGAA TTTTCCGGGG ATTACGGATA
 -214 ATACGGTGGT CTGGATTAAT TAATACGCCA AGTCTTACAT TTTGTTGCAG
 -164 TCTCGTGCGA GTATGTGCAA TAATAAACAA GATGAGCCAA TTTATTGGAT
 -114 TAGTTGCAGC TTGACCCCGC CATAGCTAGG CATAGCCAAG TGCTATGGGT
  -64 GTTAGATGAT GCACTTGGAT GCAGTGAGTT TTGGAGTATA AAAGATCCTT
  -14 AAAATTCCAC CCTT
```

Fig. 6a continued

pG1 (P_{GTH1}) comprising the $TA(T)_{15}$ motif

SEQ ID 8

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGACCCCGTTTTCG
TGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAC***
***GCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GG
TGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGA
TGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGAT
GATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1 (P_{GTH1}) comprising the $TA(T)_{15}$ motif

SEQ ID 8 sequence as above, indicating the position numbering from -965 to -1

```
-965 CAAACATTTG CTCCCCCTAG TCTCCAGGGA AATGTAAAAT ATACTGCTAA
-915 TAGAAAACAG TAAGACGCTC AGTTGTCAGG ATAATTACGT TCGACTGTAG
-865 TAAAACAGGA ATCTGTATTG TTAGAAAGAA CGAGAGTTTT TTACGGCGCC
-815 GCCATATTGG GCCGTGTGAA AACAGCTTGA AACCCCACTA CTTTCAAAGG
-765 TTCTGTTGCT ATACACGAAC CATGTTTAAC CAACCTCGCT TTTGACTTGA
-715 CTGAAGTCAT CGGTTAACAA TCAAGTACCC TAGTCTGTCT GAATGCTCCT
-665 TTCCATATTC AGTAGGTGTT TCTTGCACTT TTGCATGCAC TGCGGAAGAA
-615 TTAGCCAATA GCGCGTTTCA TATGCGCTTT TACCCCCTCT TTTGTCAAGC
-565 GCAAAATGCC TGTAAGATTT GGTGGGGGTG TGAGCCGTTA GCTGAAGTAC
-515 AACAGGCTAA TTCCCTGAAA AAACTGCAGA TAGACTTCAA GATCTCAGGG
-465 ATTCCCACTA TTTGGTATTC TGATATGTTT TTCCTGATAT GCATCAAAAC
-415 TCTAATCTAA AACCTGAATC TCCGCTATTT TTTTTTTTTT TTGATGACCC
-365 CGTTTTCGTG ACAAATTAAT TTCCAACGGG GTCTTGTCCG GATAAGAGAA
-315 TTTTGTTTGA TTATCCGTTC GGATAAATGG ACGCCTGCTC CATATTTTTC
-265 CGGTTATTAC CCCACCTGGA AGTGCCCAGA ATTTTCCGGG GATTACGGAT
-215 AATACGGTGG TCTGGATTAA TTAATACGCC AAGTCTTACA TTTTGTTGCA
-165 GTCTCGTGCG AGTATGTGCA ATAATAAACA AGATGAGCCA ATTTATTGGA
-115 TTAGTTGCAG CTTGACCCCG CCATAGCTAG GCATAGCCAA GTGCTATGGG
 -65 TGTTAGATGA TGCACTTGGA TGCAGTGAGT TTTGGAGTAT AAAAGATCCT
 -15 TAAAATTCCA CCCTT
```

Fig. 6a continued

pG1 (P_{GTH1}) comprising the $TA(T)_{16}$ motif

SEQ ID 9

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***CGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**G
GTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAA
GATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAG
ATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1 (P_{GTH1}) comprising the $TA(T)_{16}$ motif

SEQ ID 9 sequence as above, indicating the position numbering from -966 to -1

```
 -966 CAAACATTTG CTCCCCCTAG TCTCCAGGGA AATGTAAAAT ATACTGCTAA
 -916 TAGAAAACAG TAAGACGCTC AGTTGTCAGG ATAATTACGT TCGACTGTAG
 -866 TAAAACAGGA ATCTGTATTG TTAGAAAGAA CGAGAGTTTT TTACGGCGCC
 -816 GCCATATTGG GCCGTGTGAA AACAGCTTGA AACCCCACTA CTTTCAAAGG
 -766 TTCTGTTGCT ATACACGAAC CATGTTTAAC CAACCTCGCT TTTGACTTGA
 -716 CTGAAGTCAT CGGTTAACAA TCAAGTACCC TAGTCTGTCT GAATGCTCCT
 -666 TTCCATATTC AGTAGGTGTT TCTTGCACTT TTGCATGCAC TGCGGAAGAA
 -616 TTAGCCAATA GCGCGTTTCA TATGCGCTTT TACCCCCTCT TTTGTCAAGC
 -566 GCAAAATGCC TGTAAGATTT GGTGGGGGTG TGAGCCGTTA GCTGAAGTAC
 -516 AACAGGCTAA TTCCCTGAAA AAACTGCAGA TAGACTTCAA GATCTCAGGG
 -466 ATTCCCACTA TTTGGTATTC TGATATGTTT TTCCTGATAT GCATCAAAAC
 -416 TCTAATCTAA AACCTGAATC TCCGCTATTT TTTTTTTTTT TTTGATGACC
 -366 CCGTTTTCGT GACAAATTAA TTTCCAACGG GGTCTTGTCC GGATAAGAGA
 -316 ATTTTGTTTG ATTATCCGTT CGGATAAATG GACGCCTGCT CCATATTTTT
 -266 CCGGTTATTA CCCCACCTGG AAGTGCCCAG AATTTTCCGG GGATTACGGA
 -216 TAATACGGTG GTCTGGATTA ATTAATACGC CAAGTCTTAC ATTTTGTTGC
 -166 AGTCTCGTGC GAGTATGTGC AATAATAAAC AAGATGAGCC AATTTATTGG
 -116 ATTAGTTGCA GCTTGACCCC GCCATAGCTA GGCATAGCCA AGTGCTATGG
  -66 GTGTTAGATG ATGCACTTGG ATGCAGTGAG TTTTGGAGTA TAAAAGATCC
  -16 TTAAAATTCC ACCCTT
```

Fig. 6a continued

pG1-10 (PG1-s328) Fragment

SEQ ID 10

CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCC
CACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCT
TACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCT
TGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGA
GTATAAAAGATCCTTAAAATTCCACCCTT

pG1-11 (PG1-s370) Fragment

SEQ ID 11

GACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTC**
GG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTA
CGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCA
ATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCT
ATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-1 (PG1-Δ8, PG1-delta8): Comparable example comprising the TA$(T)_{15}$ motif

SEQ ID 30

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCG
TGACAAATTAATTTCCAACGGGGTCTTGTCCGGATAAGAGAATTTTGTTTGATTATCCGTTCGGdelCGCCTGCTC***C***
ATATTTTTCCGGTTATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGA
TTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAAT
TTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTT
GGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6a continued

pG1-2 (PG1-Δ9, PG1-delta9): Comparable example comprising the TA$(T)_{15}$ motif

SEQ ID 31

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCG
TGACAAATTAATTTCCAACGGGGTCTTGTCCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG***ATAAATGGA***CG
CCTGCTCdelATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAAT
TAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATT
GGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGAT
GCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b: Sequences of pG1-x promoter

$(T)_n$ (n=13-20) motifs, may be optionally extended at its 5' end by "A" or "TA"; or at its 3' end by "A" or "AT"

- $(T)_{13}$: SEQ ID 12: *TTTTTTTTTTTTT*
- $(T)_{14}$: SEQ ID 13: *TTTTTTTTTTTTTT*
- $(T)_{15}$: SEQ ID 14: *TTTTTTTTTTTTTTT*
- $(T)_{16}$: SEQ ID 15: *TTTTTTTTTTTTTTTT*
- $(T)_{17}$: SEQ ID 16: *TTTTTTTTTTTTTTTTT*
- $(T)_{18}$: SEQ ID 17: *TTTTTTTTTTTTTTTTTT*
- $(T)_{19}$: SEQ ID 18: *TTTTTTTTTTTTTTTTTTT*
- $(T)_{20}$: SEQ ID 19: *TTTTTTTTTTTTTTTTTTTT*

TA(T)$_n$ (n=13-20) motifs, may be optionally mutated to substitute the "A" at position 2 for a "T" (A/T)

- TA(T)$_{13}$: SEQ ID 20: *TATTTTTTTTTTTTT*
- TA(T)$_{13}$ (substituted A/T), SEQ ID 14 (see (T)$_{15}$): *TTTTTTTTTTTTTT*
- TA(T)$_{14}$: SEQ ID 21: *TATTTTTTTTTTTTTT*
- TA(T)$_{14}$ (substituted A/T), SEQ ID 15 (see (T)$_{16}$): *TTTTTTTTTTTTTTT*
- TA(T)$_{15}$: SEQ ID 22: *TATTTTTTTTTTTTTTT*
- TA(T)$_{15}$ (substituted A/T), SEQ ID 16 (see (T)$_{17}$): *TTTTTTTTTTTTTTTT*
- TA(T)$_{16}$: SEQ ID 23: *TATTTTTTTTTTTTTTTT*
- TA(T)$_{16}$ (substituted A/T), SEQ ID 17 (see (T)$_{18}$): *TTTTTTTTTTTTTTTTT*
- TA(T)$_{17}$: SEQ ID 24: *TATTTTTTTTTTTTTTTTT*
- TA(T)$_{17}$ (substituted A/T), SEQ ID 18 (see (T)$_{19}$): *TTTTTTTTTTTTTTTTTT*
- TA(T)$_{18}$: SEQ ID 25: *TATTTTTTTTTTTTTTTTTT*
- TA(T)$_{18}$ (substituted A/T), SEQ ID 19 (see (T)$_{20}$): *TTTTTTTTTTTTTTTTTTT*
- TA(T)$_{19}$: SEQ ID 26: *TATTTTTTTTTTTTTTTTTTT*
- TA(T)$_{19}$ (substituted A/T), SEQ ID 28 (i.e. (T)$_{21}$): *TTTTTTTTTTTTTTTTTTTT*
- TA(T)$_{20}$: SEQ ID 27: *TATTTTTTTTTTTTTTTTTTTT*
- TA(T)$_{20}$ (substituted A/T), SEQ ID 29 (i.e. (T)$_{22}$): *TTTTTTTTTTTTTTTTTTTTT*

Fig. 6b continued

pG1-x ($P_{GTH1\text{-}x}$) comprising the shortened TAT motif which is TA(T)$_{13}$

SEQ ID 32 (position numbering from -963 to -1)

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGTTTTCGTG
ACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCC***
***TGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGG
TCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGA
GCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGAT
GCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-x (P_{GTH1-x}) comprising the extended TAT motif which is $TA(T)_{17}$

SEQ ID 33

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***CGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**G
GTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAA
GATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAG
ATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-x (P_{GTH1-x}) comprising the extended TAT motif which is $TA(T)_{17}$

SEQ ID 33 sequence as above, indicating the position numbering from -967 to -1

```
 -967 CAAACATTTG CTCCCCCTAG TCTCCAGGGA AATGTAAAAT ATACTGCTAA
 -917 TAGAAAACAG TAAGACGCTC AGTTGTCAGG ATAATTACGT TCGACTGTAG
 -867 TAAAACAGGA ATCTGTATTG TTAGAAAGAA CGAGAGTTTT TTACGGCGCC
 -817 GCCATATTGG GCCGTGTGAA AACAGCTTGA AACCCCACTA CTTTCAAAGG
 -767 TTCTGTTGCT ATACACGAAC CATGTTTAAC CAACCTCGCT TTTGACTTGA
 -717 CTGAAGTCAT CGGTTAACAA TCAAGTACCC TAGTCTGTCT GAATGCTCCT
 -667 TTCCATATTC AGTAGGTGTT TCTTGCACTT TTGCATGCAC TGCGGAAGAA
 -617 TTAGCCAATA GCGCGTTTCA TATGCGCTTT TACCCCCTCT TTTGTCAAGC
 -567 GCAAAATGCC TGTAAGATTT GGTGGGGGTG TGAGCCGTTA GCTGAAGTAC
 -517 AACAGGCTAA TTCCCTGAAA AAACTGCAGA TAGACTTCAA GATCTCAGGG
 -467 ATTCCCACTA TTTGGTATTC TGATATGTTT TTCCTGATAT GCATCAAAAC
 -417 TCTAATCTAA AACCTGAATC TCCGCTATTT TTTTTTTTTT TTTTGATGAC
 -367 CCCGTTTTCG TGACAAATTA ATTTCCAACG GGGTCTTGTC CGGATAAGAG
 -317 AATTTTGTTT GATTATCCGT TCGGATAAAT GGACGCCTGC TCCATATTTT
 -267 TCCGGTTATT ACCCCACCTG GAAGTGCCCA GAATTTTCCG GGGATTACGG
 -217 ATAATACGGT GGTCTGGATT AATTAATACG CCAAGTCTTA CATTTTGTTG
 -167 CAGTCTCGTG CGAGTATGTG CAATAATAAA CAAGATGAGC CAATTTATTG
 -117 GATTAGTTGC AGCTTGACCC CGCCATAGCT AGGCATAGCC AAGTGCTATG
  -67 GGTGTTAGAT GATGCACTTG GATGCAGTGA GTTTTGGAGT ATAAAAGATC
  -17 CTTAAAATTC CACCCTT
```

Fig. 6b continued

pG1-x (P_{GTH1-x}) comprising the extended TAT motif which is $TA(T)_{18}$

SEQ ID 34

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTTT
CGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG***
***ACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**
GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACA
AGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTA
GATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-x (P_{GTH1-x}) comprising the extended TAT motif which is $TA(T)_{18}$

SEQ ID 34 sequence as above, indicating the position numbering from -968 to -1

```
 -968 CAAACATTTG CTCCCCCTAG TCTCCAGGGA AATGTAAAAT ATACTGCTAA
 -918 TAGAAAACAG TAAGACGCTC AGTTGTCAGG ATAATTACGT TCGACTGTAG
 -868 TAAAACAGGA ATCTGTATTG TTAGAAAGAA CGAGAGTTTT TTACGGCGCC
 -818 GCCATATTGG GCCGTGTGAA AACAGCTTGA AACCCCACTA CTTTCAAAGG
 -768 TTCTGTTGCT ATACACGAAC CATGTTTAAC CAACCTCGCT TTTGACTTGA
 -718 CTGAAGTCAT CGGTTAACAA TCAAGTACCC TAGTCTGTCT GAATGCTCCT
 -668 TTCCATATTC AGTAGGTGTT TCTTGCACTT TTGCATGCAC TGCGGAAGAA
 -618 TTAGCCAATA GCGCGTTTCA TATGCGCTTT TACCCCCTCT TTTGTCAAGC
 -568 GCAAAATGCC TGTAAGATTT GGTGGGGGTG TGAGCCGTTA GCTGAAGTAC
 -518 AACAGGCTAA TTCCCTGAAA AAACTGCAGA TAGACTTCAA GATCTCAGGG
 -468 ATTCCCACTA TTTGGTATTC TGATATGTTT TTCCTGATAT GCATCAAAAC
 -418 TCTAATCTAA AACCTGAATC TCCGCTATTT TTTTTTTTTT TTTTTGATGA
 -368 CCCCGTTTTC GTGACAAATT AATTTCCAAC GGGGTCTTGT CCGGATAAGA
 -318 GAATTTTGTT TGATTATCCG TTCGGATAAA TGGACGCCTG CTCCATATTT
 -268 TTCCGGTTAT TACCCCACCT GGAAGTGCCC AGAATTTTCC GGGGATTACG
 -218 GATAATACGG TGGTCTGGAT TAATTAATAC GCCAAGTCTT ACATTTTGTT
 -168 GCAGTCTCGT GCGAGTATGT GCAATAATAA ACAAGATGAG CCAATTTATT
 -118 GGATTAGTTG CAGCTTGACC CCGCCATAGC TAGGCATAGC CAAGTGCTAT
  -68 GGGTGTTAGA TGATGCACTT GGATGCAGTG AGTTTTGGAG TATAAAAGAT
  -18 CCTTAAAATT CCACCCTT
```

Fig. 6b continued

pG1-x (P_{GTH1-x}) comprising the extended TAT motif which is $TA(T)_{19}$

SEQ ID 35

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG

TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC

GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT

TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC

CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT

TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA

GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT

TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTT

TCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG***

***ACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**

GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACA

AGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTA

GATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-x (P_{GTH1-x}) comprising the extended TAT motif which is $TA(T)_{19}$
SEQ ID 35 sequence as above, indicating the position numbering from -969 to -1

```
 -969 CAAACATTTG CTCCCCCTAG TCTCCAGGGA AATGTAAAAT ATACTGCTAA
 -919 TAGAAAACAG TAAGACGCTC AGTTGTCAGG ATAATTACGT TCGACTGTAG
 -869 TAAAACAGGA ATCTGTATTG TTAGAAAGAA CGAGAGTTTT TTACGGCGCC
 -819 GCCATATTGG GCCGTGTGAA AACAGCTTGA AACCCCACTA CTTTCAAAGG
 -769 TTCTGTTGCT ATACACGAAC CATGTTTAAC CAACCTCGCT TTTGACTTGA
 -719 CTGAAGTCAT CGGTTAACAA TCAAGTACCC TAGTCTGTCT GAATGCTCCT
 -669 TTCCATATTC AGTAGGTGTT TCTTGCACTT TTGCATGCAC TGCGGAAGAA
 -619 TTAGCCAATA GCGCGTTTCA TATGCGCTTT TACCCCCTCT TTTGTCAAGC
 -569 GCAAAATGCC TGTAAGATTT GGTGGGGGTG TGAGCCGTTA GCTGAAGTAC
 -519 AACAGGCTAA TTCCCTGAAA AAACTGCAGA TAGACTTCAA GATCTCAGGG
 -469 ATTCCCACTA TTTGGTATTC TGATATGTTT TTCCTGATAT GCATCAAAAC
 -419 TCTAATCTAA AACCTGAATC TCCGCTATTT TTTTTTTTTT TTTTTGATG
 -369 ACCCCGTTTT CGTGACAAAT TAATTTCCAA CGGGGTCTTG TCCGGATAAG
 -319 AGAATTTTGT TTGATTATCC GTTCGGATAA ATGGACGCCT GCTCCATATT
 -269 TTTCCGGTTA TTACCCCACC TGGAAGTGCC CAGAATTTTC CGGGGATTAC
 -219 GGATAATACG GTGGTCTGGA TTAATTAATA CGCCAAGTCT TACATTTTGT
 -169 TGCAGTCTCG TGCGAGTATG TGCAATAATA AACAAGATGA GCCAATTTAT
 -119 TGGATTAGTT GCAGCTTGAC CCCGCCATAG CTAGGCATAG CCAAGTGCTA
  -69 TGGGTGTTAG ATGATGCACT TGGATGCAGT GAGTTTTGGA GTATAAAAGA
  -19 TCCTTAAAAT TCCACCCTT
```

Fig. 6b continued

pG1-x (P_{GTH1-x}) comprising the extended TAT motif which is $TA(T)_{20}$
SEQ ID 36

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGTT
TTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATG***
***GACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**
CGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACA
AGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTA
GATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-x (P_{GTH1-x}) comprising the extended TAT motif which is $TA(T)_{20}$
SEQ ID 36 sequence as above, indicating the position numbering from -970 to -1

```
 -970 CAAACATTTG CTCCCCCTAG TCTCCAGGGA AATGTAAAAT ATACTGCTAA
 -920 TAGAAAACAG TAAGACGCTC AGTTGTCAGG ATAATTACGT TCGACTGTAG
 -870 TAAAACAGGA ATCTGTATTG TTAGAAAGAA CGAGAGTTTT TTACGGCGCC
 -820 GCCATATTGG GCCGTGTGAA AACAGCTTGA AACCCCACTA CTTTCAAAGG
 -770 TTCTGTTGCT ATACACGAAC CATGTTTAAC CAACCTCGCT TTTGACTTGA
 -720 CTGAAGTCAT CGGTTAACAA TCAAGTACCC TAGTCTGTCT GAATGCTCCT
 -670 TTCCATATTC AGTAGGTGTT TCTTGCACTT TTGCATGCAC TGCGGAAGAA
 -620 TTAGCCAATA GCGCGTTTCA TATGCGCTTT TACCCCCTCT TTTGTCAAGC
 -570 GCAAAATGCC TGTAAGATTT GGTGGGGGTG TGAGCCGTTA GCTGAAGTAC
 -520 AACAGGCTAA TTCCCTGAAA AAACTGCAGA TAGACTTCAA GATCTCAGGG
 -470 ATTCCCACTA TTTGGTATTC TGATATGTTT TTCCTGATAT GCATCAAAAC
 -420 TCTAATCTAA AACCTGAATC TCCGCTATTT TTTTTTTTTT TTTTTTTGAT
 -370 GACCCCGTTT TCGTGACAAA TTAATTTCCA ACGGGGTCTT GTCCGGATAA
 -320 GAGAATTTTG TTTGATTATC CGTTCGGATA AATGGACGCC TGCTCCATAT
 -270 TTTTCCGGTT ATTACCCCAC CTGGAAGTGC CCAGAATTTT CCGGGGATTA
 -220 CGGATAATAC GGTGGTCTGG ATTAATTAAT ACGCCAAGTC TTACATTTTG
 -170 TTGCAGTCTC GTGCGAGTAT GTGCAATAAT AAACAAGATG AGCCAATTTA
 -120 TTGGATTAGT TGCAGCTTGA CCCCGCCATA GCTAGGCATA GCCAAGTGCT
  -70 ATGGGTGTTA GATGATGCAC TTGGATGCAG TGAGTTTTGG AGTATAAAAG
  -20 ATCCTTAAAA TTCCACCCTT
```

Fig. 6b continued

pG1-3 (PG1-D1240-2xTA(T)$_n$): Example comprising two T motifs which are (T)$_n$ (n=13-20), each extended by preceding TA (extending the T motif at its 5'-end to become a TA(T)$_n$ motif)

SEQ ID 37

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGT
CTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG**ATAAATGGA***CGCCTGCTC***CATATTTTTCCGGTT**AT**
TACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGAGA
TCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAAT
CTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTT**
TGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAAT
TTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGT
GCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGC
ATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATT
CCACCCTT

pG1-3 (PG1-D1240-TA(T)$_n$-(T)$_n$): Example comprising a first T motif which is (T)$_n$ (n=13-20) extended by preceding TA (extending the T motif at its 5'-end to become a TA(T)$_n$ motif; and a second T motif which is (T)$_n$ (n=13-20) without a TA extension

SEQ ID 38

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGT
CTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG**ATAAATGGA***CGCCTGCTC***CATATTTTTCCGGTT**AT**
TACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGAGA
TCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAAT
CTCCGC*(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTG**
ATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTT
TCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGC
GAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCAT
AGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCC
ACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-$(T)_n$-TA$(T)_n$): Example comprising a first T motif which is $(T)_n$ (n=13-20) without a TA extension; and a second T motif which is $(T)_n$ (n=13-20) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 39

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTT
GT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTAC
CCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTAATACGAGATCT
CAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTC
CGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTG
ATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTT
TCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGC
GAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCAT
AGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCC
ACCCTT

pG1-3 (PG1-D1240-T(A/T)$(T)_n$-TA$(T)_n$): Example comprising a first T motif which is T(A/T)$(T)_n$ (n=13-20) which comprises the A/T substitution (extending the $(T)_n$ motif at its 5'-end by two additional "T" to become a TT$(T)_n$ motif); and a second T motif which is TA$(T)_n$ (n=13-20)

SEQ ID 40

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TT(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTC
TTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATT
ACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTAATACGAGAT
CTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATC
TCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTT
GATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATT
TTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTG
CGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCA
TAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTC
CACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-TA$(T)_n$-T(A/T)$(T)_n$): Example comprising a first T motif which is TA$(T)_n$ (n=13-20); and a second T motif which is T(A/T)$(T)_n$ (n=13-20) which comprises the A/T substitution (extending the $(T)_n$ motif at its 5'-end by two additional "T" to become a TT$(T)_n$ motif);

SEQ ID 41

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGT
CTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*AT
TACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTAATACGAGA
TCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAAT
CTCCGC*TT(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTT
TGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAAT
TTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGT
GCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGC
ATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATT
CCACCCTT

pG1-3 (PG1-D1240-T(A/T)$(T)_n$-$(T)_n$): Example comprising a first T motif which is T(A/T)$(T)_n$ (n=13-20) which comprises the A/T substitution (extending the $(T)_n$ motif at its 5'-end by two additional "T" to become a TT$(T)_n$ motif); and a second T motif which is $(T)_n$ (n=13-20)

SEQ ID 42

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TT(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTC
TTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATT
ACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTAATACGAGAT
CTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATC
TCCGC*(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGA
TTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTT
CCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCG
AGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATA
GCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCA
CCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-$(T)_n$-T(A/T)$(T)_n$): Example comprising a first T motif which is $(T)_n$ (n=13-20); and a second T motif which is T(A/T)$(T)_n$ (n=13-20) which comprises the A/T substitution (extending the $(T)_n$ motif at its 5'-end by two additional "T" to become a TT$(T)_n$ motif);

SEQ ID 43

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*(T)*$_n$GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTT
GT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA**CGCCTGCTC**CATATTTTTCCGGTT*ATTAC
CCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGAGATCT
CAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTC
CGC*TT(T)*$_n$GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGA
TTATCCGTTCGG*ATAAATGGA**CGCCTGCTC**CATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTT
CCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCG
AGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATA
GCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCA
CCCTT

pG1-3 (PG1-D1240-2x$(T)_n$): Example comprising two T motifs which are $(T)_n$ (n=13-20), each without a TA extension

SEQ ID 44

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*(T)*$_n$GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTT
GT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA**CGCCTGCTC**CATATTTTTCCGGTT*ATTAC
CCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGAGATCT
CAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTC
CGC*(T)*$_n$GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATT
ATCCGTTCGG*ATAAATGGA**CGCCTGCTC**CATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCC
GGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAG
TATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGC
CAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACC
CTT

Fig. 6b continued

pG1-3 (PG1-D1240-2xTA($T)_{13}$): Example comprising two T motifs which are ($T)_n$ (n=13), each extended by preceding TA (extending the T motif at its 5'-end to become a TA($T)_n$ motif)

SEQ ID 45

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCC
AACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTC*CATATTTTT
CCGGTT**ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTA
ATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAA
ACCTGAATCTCCGC*TATTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCG
GATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCAC
CTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTAC
ATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTG
ACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGT
ATAAAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-TA($T)_{13}$-($T)_{13}$): Example comprising a first T motif which is ($T)_n$ (n=13) extended by preceding TA (extending the T motif at its 5'-end to become a TA($T)_n$ motif; and a second T motif which is ($T)_n$ (n=13) without a TA extension

SEQ ID 46

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCC
AACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTT
CCGGTT**ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTA
ATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAA
ACCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGA
TAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTG
GAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATT
TTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACC
CCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATA
AAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-$(T)_{13}$-TA$(T)_{13}$): Example comprising a first T motif which is $(T)_n$ (n=13) without a TA extension; and a second T motif which is $(T)_n$ (n=13) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 47

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAA
CGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA**CGCCTGCTC*CATATTTTTCC
GGTT**ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTAAT
ACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAAC
CTGAATCTCCGC*TATTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGA
TAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT***ATTACCCCACCTG
GAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATT
TTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACC
CCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATA
AAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-2x$(T)_{13}$): Example comprising two T motifs which are $(T)_n$ (n=13), each without a TA extension

SEQ ID 48

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAA
CGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA**CGCCTGCTC*CATATTTTTCC
GGTT**ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTAAT
ACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAAC
CTGAATCTCCGC*TTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATA
AGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT***ATTACCCCACCTGG
AAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTT
GTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCC
GCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAA
AGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-2xTA($T)_{14}$): Example comprising two T motifs which are $(T)_n$ (n=14), each extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif)

SEQ ID 49

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTC
CAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTT*
*TCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATT
AATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAA
AACCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CC
GGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCA
CCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTA
CATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-TA($T)_{14}$-($T)_{14}$): Example comprising a first T motif which is $(T)_n$ (n=14) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=14) without a TA extension

SEQ ID 50

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTC
CAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTT*
*TCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATT
AATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAA
AACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCG
GATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCAC
CTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTAC
ATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTG
ACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGT
ATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-$(T)_{14}$-TA$(T)_{14}$): Example comprising a first T motif which is $(T)_n$ (n=14) without a TA extension; and a second T motif which is $(T)_n$ (n=14) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 51

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCA
ACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*_*CGCCTGCTC*_*CATATTTTTC***
CGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA*CGGTGGTCTGGATTAATTAA
TACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCG**
GATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*_*CGCCTGCTC*_*CATATTTTTCCGGTT*_*ATTACCCCAC*
CTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTAC
ATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTG
ACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGT
ATAAAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-2x$(T)_{14}$): Example comprising two T motifs which are $(T)_n$ (n=14), each without a TA extension

SEQ ID 52

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCA
ACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*_*CGCCTGCTC*_*CATATTTTTC***
CGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA*CGGTGGTCTGGATTAATTAA
TACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGA**
TAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*_*CGCCTGCTC*_*CATATTTTTCCGGTT*_*ATTACCCCACCTG*
GAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATT
TTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACC
CCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATA
AAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-2xTA$(T)_{15}$): Example comprising two T motifs which are $(T)_n$ (n=15), each extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif)

SEQ ID 53

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTT
CCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTC*CATATTT
TTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAAT
TAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTA
AAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT
**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCC
CACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCT
TACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCT
TGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGA
GTATAAAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-TA$(T)_{15}$-$(T)_{15}$): Example comprising a first T motif which is $(T)_n$ (n=15) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=15) without a TA extension

SEQ ID 54

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTT
CCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTT
TTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAAT
TAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTA
AAACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CC
GGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCA
CCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTA
CATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-$(T)_{15}$-TA$(T)_{15}$): Example comprising a first T motif which is $(T)_n$ (n=15) without a TA extension; and a second T motif which is $(T)_n$ (n=15) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 55

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCC
AACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTT*
CCGGTTATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTA
ATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAA
ACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CC
GGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCA
CCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTA
CATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-2x$(T)_{15}$): Example comprising two T motifs which are $(T)_n$ (n=15), each without a TA extension

SEQ ID 56

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCC
AACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTT*
CCGGTTATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTA
ATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAA
ACCTGAATCTCCGC*TTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCG
GATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCAC
CTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTAC
ATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTG
ACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGT
ATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-2xTA($T)_{16}$): Example comprising two T motifs which are $(T)_n$ (n=16), each extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif)

SEQ ID 57

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATT
TCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATT*
*TTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAA
TTAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCT
AAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTT
GT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTAC
CCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGT
CTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAG
CTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGG
AGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-TA($T)_{16}$-($T)_{16}$): Example comprising a first T motif which is $(T)_n$ (n=16) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=16) without a TA extension

SEQ ID 58

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATT
TCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATT*
*TTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAA
TTAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCT
AAAACCTGAATCTCCGC*TTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT
**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCC
CACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCT
TACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCT
TGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGA
GTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-$(T)_{16}$-TA$(T)_{16}$): Example comprising a first T motif which is $(T)_n$ (n=16) without a TA extension; and a second T motif which is $(T)_n$ (n=16) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 59

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTC
CAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGGATAAATGGA*CGCCTGCTC*CATATTTT
TCCGGTTATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATT
AATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAA
AACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT
**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCC
CACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCT
TACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCT
TGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGA
GTATAAAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-2x$(T)_{16}$): Example comprising two T motifs which are $(T)_n$ (n=16), each without a TA extension

SEQ ID 60

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTC
CAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGGATAAATGGA*CGCCTGCTCCATATTTT
TCCGGTTATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATT
AATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAA
AACCTGAATCTCCGC*TTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CC
GGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCA
CCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTA
CATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-2xTA$(T)_{17}$): Example comprising two T motifs which are $(T)_n$ (n=17), each extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif)

SEQ ID 61

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAAT
TTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATAT*
***TTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTA
ATTAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATC
TAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTC
TTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATT**
ACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAA
GTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGC
AGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTT
GGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-TA$(T)_{17}$-$(T)_{17}$): Example comprising a first T motif which is $(T)_n$ (n=17) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=17) without a TA extension

SEQ ID 62

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAAT
TTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATAT*
***TTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTA
ATTAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATC
TAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTT
GT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTAC**
CCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGT
CTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAG
CTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGG
AGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-$(T)_{17}$-TA$(T)_{17}$): Example comprising a first T motif which is $(T)_n$ (n=17) without a TA extension; and a second T motif which is $(T)_n$ (n=17) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 63

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTT
CCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTT*
***TTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAAT
TAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTA
AAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTT
GT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTAC**
CCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGT
CTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAG
CTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGG
AGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-2x$(T)_{17}$): Example comprising two T motifs which are $(T)_n$ (n=17), each without a TA extension

SEQ ID 64

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTT
CCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTT*
***TTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAAT
TAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTA
AAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT
CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCC
CACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCT
TACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCT
TGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGA
GTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-2xTA$(T)_{18}$): Example comprising two T motifs which are $(T)_n$ (n=18), each extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif)

SEQ ID 65

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAA
TTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG**<u>**ATAAATGGA**</u>***CGCCTGCTC***<u>**CATA**</u>
<u>**TTTTTCCGGTT**</u>**ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATT
AATTAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAAT
CTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGG
TCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*A
TTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCC
AAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTT
GCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGT
TTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-TA$(T)_{18}$-$(T)_{18}$): Example comprising a first T motif which is $(T)_n$ (n=18) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=18) without a TA extension

SEQ ID 66

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAA
TTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG**<u>**ATAAATGGA**</u>***CGCCTGCTC***<u>**CATA**</u>
<u>**TTTTTCCGGTT**</u>**ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATT
AATTAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAAT
CTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTC
TTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATT
ACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAA
GTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGC
AGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTT
GGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-$(T)_{18}$-TA$(T)_{18}$): Example comprising a first T motif which is $(T)_n$ (n=18) without a TA extension; and a second T motif which is $(T)_n$ (n=18) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 67

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATT
TCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTC*CATATT
TTTCCGGTT**ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAA
TTAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCT
AAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTC
TTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATT
ACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAA
GTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGC
AGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTT
GGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-2x$(T)_{18}$): Example comprising two T motifs which are $(T)_n$ (n=18), each without a TA extension

SEQ ID 68

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATT
TCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTAC
CCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGT
CTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAG
CTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGG
AGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-2xTA$(T)_{19}$): Example comprising two T motifs which are $(T)_n$ (n=19), each extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif)

SEQ ID 69

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTA
ATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCAT*
***ATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGAT
TAATTAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAA
TCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGG
GGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGT*
***T*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACG
CCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAG
TTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGA
GTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-TA$(T)_{19}$-$(T)_{19}$): Example comprising a first T motif which is $(T)_n$ (n=19) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=19) without a TA extension

SEQ ID 70

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTA
ATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCAT*
***ATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGAT
TAATTAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAA
TCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGG
TCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTTA***
TTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCC
AAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTT
GCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGT
TTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-$(T)_{19}$-TA$(T)_{19}$): Example comprising a first T motif which is $(T)_n$ (n=19) without a TA extension; and a second T motif which is $(T)_n$ (n=19) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 71

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAAT
TTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATAT*
***TTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTA
ATTAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATC
TAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGG
TCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTTA***
TTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCC
AAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTT
GCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGT
TTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-2x$(T)_{19}$): Example comprising two T motifs which are $(T)_n$ (n=19), each without a TA extension

SEQ ID 72

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAAT
TTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATAT*
***TTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTA
ATTAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATC
TAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTC
TTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTTATT***
ACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAA
GTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGC
AGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTT
GGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-2xTA$(T)_{20}$): Example comprising two T motifs which are $(T)_n$ (n=20), each extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif)

SEQ ID 73

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATT
AATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCA*
TATTTTTCCGGTTATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGA
TTAATTAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTA
ATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAAC
GGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCG*
***GTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATA
CGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATT
AGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGT
GAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-TA$(T)_{20}$-$(T)_{20}$): Example comprising a first T motif which is $(T)_n$ (n=20) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=20) without a TA extension

SEQ ID 74

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATT
AATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCA*
TATTTTTCCGGTTATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGA
TTAATTAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTA
ATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGG
GGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGT***
***T*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACG
CCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAG
TTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGA
GTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-3 (PG1-D1240-$(T)_{20}$-TA$(T)_{20}$): Example comprising a first T motif which is $(T)_n$ (n=20) without a TA extension; and a second T motif which is $(T)_n$ (n=20) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 75

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAA
TTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATA*
*TTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATT
AATTAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAAT
CTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGG
GGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGT*
*T*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACG
CCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAG
TTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGA
GTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-3 (PG1-D1240-2x$(T)_{20}$): Example comprising two T motifs which are $(T)_n$ (n=20), each without a TA extension

SEQ ID 76

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAA
TTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATA*
*TTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATT
AATTAATACGAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAAT
CTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGG
TCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*A
TTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCC
AAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTT
GCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGT
TTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2xTA(T)$_n$): Example comprising two T motifs which are (T)$_n$ (n=13-20), each extended by preceding TA (extending the T motif at its 5'-end to become a TA(T)$_n$ motif)

SEQ ID 77

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGT
CTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*AT
TACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTAATACGCCA
AGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTG
CAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTT
TGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTC
CTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTT
CCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTT
TTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAAT
TAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATT
GGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGAT
GCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-TA$(T)_n$-$(T)_n$): Example comprising a first T motif which is $(T)_n$ (n=13-20) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=13-20) without a TA extension

SEQ ID 78

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGT
CTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*AT
TACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTAATACGCCA
AGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTG
CAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTT
TGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTC
CTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCC
AACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTT
CCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTA
ATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTG
GATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGC
AGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-$(T)_n$-TA$(T)_n$): Example comprising a first T motif which is $(T)_n$ (n=13-20) without a TA extension; and a second T motif which is $(T)_n$ (n=13-20) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 79

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTT
GT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTAC
CCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTAATACGCCAAGT
CTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAG
CTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGG
AGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTG
ATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCA
ACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTC
CGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAA
TACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGG
ATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCA
GTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2x$(T)_n$): Example comprising two T motifs which are $(T)_n$ (n=13-20), each without a TA extension

SEQ ID 80

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTT
GT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTAC
CCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTAATACGCCAAGT
CTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAG
CTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGG
AGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTG
ATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAAC
GGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCG
GTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATA
CGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATT
AGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGT
GAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2xTA$(T)_{13}$): Example comprising two T motifs which are $(T)_n$ (n=13), each extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif)

SEQ ID 81

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCC
AACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTT
CCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTA
ATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTG
GATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGC
AGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGA
TATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTT*GATGACCCCGT
TTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAAT
GGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAAT
AC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAA
CAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGT
TAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-TA$(T)_{13}$-$(T)_{13}$): Example comprising a first T motif which is $(T)_n$ (n=13) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=13) without a TA extension

SEQ ID 82

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCC
AACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTT
CCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTA
ATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTG
GATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGC
AGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGA
TATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTT*GATGACCCCGTTT
TCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG
ACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**
GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACA
AGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTA
GATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-$(T)_{13}$-TA$(T)_{13}$): Example comprising a first T motif which is $(T)_n$ (n=13) without a TA extension; and a second T motif which is $(T)_n$ (n=13) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 83

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAA
CGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTCC
*GGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTAAT
ACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGA
TTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAG
TGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGATA
TGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTT*GATGACCCCGTTT
TCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG
*ACGCCTGCTC*CATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**
GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACA
AGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTA
GATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2x$(T)_{13}$): Example comprising two T motifs which are $(T)_n$ (n=13), each without a TA extension

SEQ ID 84

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAA
CGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTCC*
***GGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTAAT
ACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGA
TTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAG
TGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGATA
TGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***CGCCTGCTC*CATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**G
GTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAA
GATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAG
ATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2xTA$(T)_{14}$): Example comprising two T motifs which are $(T)_n$ (n=14), each extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif)

SEQ ID 85

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTC
CAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTT
TCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATT
AATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTG
GATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGC
AGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGA
TATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCG
TTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAA
TGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAA
TAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAA
CAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGT
TAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-TA$(T)_{14}$-$(T)_{14}$): Example comprising a first T motif which is $(T)_n$ (n=14) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=14) without a TA extension

SEQ ID 86

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTC
CAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTT
TCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATT
AATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTG
GATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGC
AGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGA
TATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTT
TTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATG
GACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA
C**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACA
AGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTA
GATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-$(T)_{14}$-TA$(T)_{14}$): Example comprising a first T motif which is $(T)_n$ (n=14) without a TA extension; and a second T motif which is $(T)_n$ (n=14) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 87

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCA
ACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTC
CGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTAA
TACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGG
ATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCA
GTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGAT
ATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGT
TTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAAT
GGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAAT
AC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAA
CAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGT
TAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2x$(T)_{14}$): Example comprising two T motifs which are $(T)_n$ (n=14), each without a TA extension

SEQ ID 88

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCA
ACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTC
CGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTAA
TACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGG
ATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCA
GTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGAT
ATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTTT
TCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG
ACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**
GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACA
AGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTA
GATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2xTA$(T)_{15}$): Example comprising two T motifs which are $(T)_n$ (n=15), each extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif)

SEQ ID 89

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTT
CCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTT
TTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAAT
TAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATT
GGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGAT
GCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCT
GATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACC
CCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*AT
AAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGG
ATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATA
ATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATG
GGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-TA$(T)_{15}$-$(T)_{15}$): Example comprising a first T motif which is $(T)_n$ (n=15) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=15) without a TA extension

SEQ ID 90

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTT
CCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTT
TTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAAT
TAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATT
GGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGAT
GCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCT
GATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCC
GTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAA
ATGGACGCCTGCTCCATATTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATA
ATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAA
ACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTG
TTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-$(T)_{15}$-TA$(T)_{15}$): Example comprising a first T motif which is $(T)_n$ (n=15) without a TA extension; and a second T motif which is $(T)_n$ (n=15) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 91

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCC
AACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTT
CCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTA
ATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTG
GATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGC
AGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGA
TATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCC
GTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAA
ATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATA
ATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAA
ACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTG
TTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2x$(T)_{15}$): Example comprising two T motifs which are $(T)_n$ (n=15), each without a TA extension

SEQ ID 92

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCC
AACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTT
CCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATTA
ATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTG
GATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGC
AGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGA
TATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGT
TTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAAT
GGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAAT
AC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAA
CAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGT
TAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2xTA$(T)_{16}$): Example comprising two T motifs which are $(T)_n$ (n=16), each extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif)

SEQ ID 93

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATT
TCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATT
TTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAA
TTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTAT
TGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGAT
GCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCT
GATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGAC
CCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*A
TAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGG
ATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATA
ATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATG
GGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-TA$(T)_{16}$-$(T)_{16}$): Example comprising a first T motif which is $(T)_n$ (n=16) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=16) without a TA extension

SEQ ID 94

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATT
TCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATT
TTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAA
TTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTAT
TGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGAT
GCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCT
GATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTT*GATGACCC
CGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATA
AATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGAT
AATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAAT
AAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGG
GTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-$(T)_{16}$-TA$(T)_{16}$): Example comprising a first T motif which is $(T)_n$ (n=16) without a TA extension; and a second T motif which is $(T)_n$ (n=16) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 95

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTC
CAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTT
TCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATT
AATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTG
GATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGC
AGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGA
TATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGACCC
CGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATA
AATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGAT
AATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAAT
AAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGG
GTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2x$(T)_{16}$): Example comprising two T motifs which are $(T)_n$ (n=16), each without a TA extension

SEQ ID 96

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTC
CAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTT
TCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAATT
AATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTG
GATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGC
AGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCTGA
TATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTT*GATGACCCCG
TTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAA
TGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAA
TAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAA
CAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGT
TAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2xTA$(T)_{17}$): Example comprising two T motifs which are $(T)_n$ (n=17), each extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif)

SEQ ID 97

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAAT
TTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATAT
TTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTA
ATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTA
TTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGA
TGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTC
TGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATG
ACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCG
G*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTAC
GGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAA
TAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTA
TGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-TA$(T)_{17}$-$(T)_{17}$): Example comprising a first T motif which is $(T)_n$ (n=17) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=17) without a TA extension

SEQ ID 98

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAAT
TTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATAT
TTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTA
ATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTA
TTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGA
TGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTC
TGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGAC
CCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*A
TAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGG
ATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATA
ATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATG
GGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-$(T)_{17}$-TA$(T)_{17}$): Example comprising a first T motif which is $(T)_n$ (n=17) without a TA extension; and a second T motif which is $(T)_n$ (n=17) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 99

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTT
CCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTT
TTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAAT
TAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATT
GGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGAT
GCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCT
GATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGA
CCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG
*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACG
GATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAAT
AATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTAT
GGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2x$(T)_{17}$): Example comprising two T motifs which are $(T)_n$ (n=17), each without a TA extension

SEQ ID 100

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTT
CCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTT
TTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAAT
TAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATT
GGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGAT
GCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCT
GATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACC
CCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*AT
AAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGG
ATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATA
ATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATG
GGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2xTA$(T)_{18}$): Example comprising two T motifs which are $(T)_n$ (n=18), each extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif)

SEQ ID 101

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAA
TTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATA
TTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATT
AATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTT
ATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGG
ATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATT
CTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GAT
GACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTC
GG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTA
CGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCA
ATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCT
ATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-TA$(T)_{18}$-$(T)_{18}$): Example comprising a first T motif which is $(T)_n$ (n=18) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=18) without a TA extension

SEQ ID 102

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAA
TTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATA
TTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATT
AATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTT
ATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGG
ATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATT
CTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATG
ACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCG
G*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTAC
GGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAA
TAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTA
TGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-$(T)_{18}$-TA$(T)_{18}$): Example comprising a first T motif which is $(T)_n$ (n=18) without a TA extension; and a second T motif which is $(T)_n$ (n=18) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 103

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATT
TCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATT
TTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAA
TTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTAT
TGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGAT
GCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCT
GATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATG
ACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCG
G*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTAC
GGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAA
TAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTA
TGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2x$(T)_{18}$): Example comprising two T motifs which are $(T)_n$ (n=18), each without a TA extension

SEQ ID 104

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATT
TCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATT
TTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTAA
TTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTAT
TGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGAT
GCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTCT
GATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGAC
CCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*A
TAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGG
ATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATA
ATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATG
GGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2xTA$(T)_{19}$): Example comprising two T motifs which are $(T)_n$ (n=19), each extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif)

SEQ ID 105

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTA
ATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCAT
ATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGAT
TAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATT
TATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTG
GATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTAT
TCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*G
ATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTT
CGG*ATAAATGGA*CGCCTGCTC*CATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATT
ACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGC
AATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGC
TATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-TA$(T)_{19}$-$(T)_{19}$): Example comprising a first T motif which is $(T)_n$ (n=19) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=19) without a TA extension

SEQ ID 106

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTA
ATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCAT*
*ATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGAT
TAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATT
TATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTG
GATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTAT
TCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GAT
GACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTC
GG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTA
CGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCA
ATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCT
ATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-$(T)_{19}$-TA$(T)_{19}$): Example comprising a first T motif which is $(T)_n$ (n=19) without a TA extension; and a second T motif which is $(T)_n$ (n=19) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 107

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAAT
TTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATAT
TTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTA
ATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTA
TTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGA
TGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTC
TGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GAT
GACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTC
GG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTA
CGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCA
ATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCT
ATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2x$(T)_{19}$): Example comprising two T motifs which are $(T)_n$ (n=19), each without a TA extension

SEQ ID 108

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAAT
TTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATAT
TTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATTA
ATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTA
TTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGA
TGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATTC
TGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GATGA
CCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG
*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACG
GATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAAT
AATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTAT
GGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2xTA$(T)_{20}$): Example comprising two T motifs which are $(T)_n$ (n=20), each extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif)

SEQ ID 109

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATT
AATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCA
TATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGA
TTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAAT
TTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTT
GGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTA
TTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT
T*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCC
GTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGG
ATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATG
TGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAG
TGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-TA$(T)_{20}$-$(T)_{20}$): Example comprising a first T motif which is $(T)_n$ (n=20) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif; and a second T motif which is $(T)_n$ (n=20) without a TA extension

SEQ ID 110

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATT
AATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCA
TATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGA
TTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAAT
TTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTT
GGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTA
TTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*G
ATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTT
CGG*ATAAATGGA*CGCCTGCTCCATATTTTTCCGGTT**ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATT
ACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGC
AATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGC
TATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-$(T)_{20}$-TA$(T)_{20}$): Example comprising a first T motif which is $(T)_n$ (n=20) without a TA extension; and a second T motif which is $(T)_n$ (n=20) extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif

SEQ ID 111

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAA
TTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTCCATA
*TTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATT
AATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTT
ATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGG
ATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATT
CTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTTT*G
ATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTT
CGG*ATAAATGGA*CGCCTGCTCCATATTTTTCCGGTT**ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATT
ACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGC
AATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGC
TATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-4 (PG1-D1427-2x$(T)_{20}$): Example comprising two T motifs which are $(T)_n$ (n=20), each without a TA extension

SEQ ID 112

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCAT
CAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAA
TTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATA
TTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**CGGTGGTCTGGATT
AATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTT
ATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGG
ATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTTAGATCTCAGGGATTCCCACTATTTGGTATT
CTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GAT
GACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTC
GG*ATAAATGGA*CGCCTGCTC*CATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTA
CGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCA
ATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCT
ATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-5 (PG1-D1083-TA$(T)_n$): Example comprising one T motif which is $(T)_n$ (n=13-20), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 113

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAA
TTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATA
TTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACCCGGATAAGAGAA
TTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCC
CAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAG
TCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAG
CTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTT
AAAATTCCACCCTT

pG1-5 (PG1-D1083-$(T)_n$): Example comprising one T motif which is $(T)_n$ (n=13-20) without a TA extension; (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 114

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATT
TCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATT
TTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACCCGGATAAGAGAATT
TTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCC
AGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGT
CTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGC
TAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTT
AAAATTCCACCCTT

Fig. 6b continued

pG1-5 (PG1-D1083-TA$(T)_{13}$): Example comprising one T motif which is $(T)_n$ (n=13), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 115

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTT*GATGACCCCGTTTTCGTG
ACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCC
TGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACCCGGA
TAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTG
GAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATT
TTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACC
CCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATA
AAAGATCCTTAAAATTCCACCCTT

pG1-5 (PG1-D1083-$(T)_{13}$): Example comprising one T motif which is $(T)_n$ (n=13) without a TA extension; (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 116

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTT*GATGACCCCGTTTTCGTGAC
AAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCT
GCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACCCGGAT
AAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTG
GAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATT
TTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACC
CCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATA
AAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-5 (PG1-D1083-TA$(T)_{14}$): Example comprising one T motif which is $(T)_n$ (n=14), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 117

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGTTTTCGT
GACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACG
CCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACCCG
GATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCAC
CTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTAC
ATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTG
ACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGT
ATAAAAGATCCTTAAAATTCCACCCTT

pG1-5 (PG1-D1083-$(T)_{14}$): Example comprising one T motif which is $(T)_n$ (n=14) without a TA extension; (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 118

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTTTTCGTGA
CAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCT
GCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACCCGGAT
AAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTG
GAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATT
TTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACC
CCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATA
AAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-5 (PG1-D1083-TA$(T)_{15}$): Example comprising one T motif which is $(T)_n$ (n=15), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 119

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCG
TGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAC***
***GCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACCC**
GGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCA
CCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTA
CATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

pG1-5 (PG1-D1083-$(T)_{15}$): Example comprising one T motif which is $(T)_n$ (n=15) without a TA extension; (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 120

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGTTTTCGTG
ACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCC***
***TGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACCCGGA**
TAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTG
GAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATT
TTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACC
CCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATA
AAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-5 (PG1-D1083-TA$(T)_{16}$): Example comprising one T motif which is $(T)_n$ (n=16), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 121

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA
CGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACC
CGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCC
ACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTT
ACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

pG1-5 (PG1-D1083-$(T)_{16}$): Example comprising one T motif which is $(T)_n$ (n=16) without a TA extension; (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 122

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTT*GATGACCCCGTTTTCGT
GACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACG
CCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACCCG
GATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCAC
CTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTAC
ATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTG
ACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGT
ATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-5 (PG1-D1083-TA$(T)_{17}$): Example comprising one T motif which is $(T)_n$ (n=17), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 123

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA
CGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACC
CGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCC
ACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTT
ACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

pG1-5 (PG1-D1083-$(T)_{17}$): Example comprising one T motif which is $(T)_n$ (n=17) without a TA extension; (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 124

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCG
TGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAC
GCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACCC
GGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCA
CCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTA
CATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-5 (PG1-D1083-TA$(T)_{18}$): Example comprising one T motif which is $(T)_n$ (n=18), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 125

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTTT
CGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG***
***ACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**
CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCC
CACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCT
TACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCT
TGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGA
GTATAAAAGATCCTTAAAATTCCACCCTT

pG1-5 (PG1-D1083-$(T)_{18}$): Example comprising one T motif which is $(T)_n$ (n=18) without a TA extension; (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 126

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***CGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACC**
CGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCC
ACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTT
ACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-5 (PG1-D1083-TA$(T)_{19}$): Example comprising one T motif which is $(T)_n$ (n=19), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 127

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGTTT
TCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG
ACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC
CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCC
CACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCT
TACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCT
TGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGA
GTATAAAAGATCCTTAAAATTCCACCCTT

pG1-5 (PG1-D1083-$(T)_{19}$): Example comprising one T motif which is $(T)_n$ (n=19) without a TA extension; (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 128

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA
CGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACC
CGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCC
ACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTT
ACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-5 (PG1-D1083-TA$(T)_{20}$): Example comprising one T motif which is $(T)_n$ (n=20), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 129

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTTT*GATGACCCCGTT
TTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATG
GACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA
CCCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACC
CCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTC
TTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGC
TTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGG
AGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-5 (PG1-D1083-$(T)_{20}$): Example comprising one T motif which is $(T)_n$ (n=20) without a TA extension; (Duplication of main regulatory region -328 to -211, inserted between -211/-210)

SEQ ID 130

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTT
CGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG
ACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC
CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCC
CACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCT
TACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCT
TGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGA
GTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-6 PE-d998 (PG1-D998-TA$(T)_n$): Example comprising one T motif which is $(T)_n$ (n=13-20), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 131

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAA
TTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATA
TTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCC
GGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAG
TATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGC
CAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACC
CTT

pG1-6 PE-d998 (PG1-D998-$(T)_n$): Example comprising one T motif which is $(T)_n$ (n=13-20) without a TA extension; (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 132

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATT
TCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATT
TTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCG
GGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGT
ATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCC
AAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCC
TT

Fig. 6b continued

pG1-6 PE-d998 (PG1-D998-TA$(T)_{13}$): Example comprising one T motif which is $(T)_n$ (n=13), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 133

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTT*GATGACCCCGTTTTCGTG
ACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCC
TGCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCA
GAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTC
TCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCT
AGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTA
AAATTCCACCCTT

pG1-6 PE-d998 (PG1-D998-$(T)_{13}$): Example comprising one T motif which is $(T)_n$ (n=13) without a TA extension; (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 134

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTT*GATGACCCCGTTTTCGTGAC
AAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCT
GCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAG
AATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCT
CGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTA
GGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAA
AATTCCACCCTT

Fig. 6b continued

pG1-6 PE-d998 (PG1-D998-TA$(T)_{14}$): Example comprising one T motif which is $(T)_n$ (n=14), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 135

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGTTTTCGT
GACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACG
CCTGCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCC
CAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAG
TCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAG
CTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTT
AAAATTCCACCCTT

pG1-6 PE-d998 (PG1-D998-$(T)_{14}$): Example comprising one T motif which is $(T)_n$ (n=14) without a TA extension; (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 136

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTTTTCGTGA
CAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCT
GCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAG
AATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCT
CGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTA
GGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAA
AATTCCACCCTT

Fig. 6b continued

pG1-6 PE-d998 (PG1-D998-TA$(T)_{15}$): Example comprising one T motif which is $(T)_n$ (n=15), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 137

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCG
TGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAC***
***GCCTGCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGC**
CCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCA
GTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATA
GCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCC
TTAAAATTCCACCCTT

pG1-6 PE-d998 (PG1-D998-$(T)_{15}$): Example comprising one T motif which is $(T)_n$ (n=15) without a TA extension; (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 138

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGTTTTCGTG
ACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCC***
***TGCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCA**
GAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTC
TCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCT
AGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTA
AAATTCCACCCTT

Fig. 6b continued

pG1-6 PE-d998 (PG1-D998-TA$(T)_{16}$): Example comprising one T motif which is $(T)_n$ (n=16), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 139

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA
CGCCTGCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTG
CCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGC
AGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCAT
AGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATC
CTTAAAATTCCACCCTT

pG1-6 PE-d998 (PG1-D998-$(T)_{16}$): Example comprising one T motif which is $(T)_n$ (n=16) without a TA extension; (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 140

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTT*GATGACCCCGTTTTCGT
GACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACG
CCTGCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCC
CAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAG
TCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAG
CTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTT
AAAATTCCACCCTT

Fig. 6b continued

pG1-6 PE-d998 (PG1-D998-TA$(T)_{17}$): Example comprising one T motif which is $(T)_n$ (n=17), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 141

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA
CGCCTGCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTG
CCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGC
AGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCAT
AGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATC
CTTAAAATTCCACCCTT

pG1-6 PE-d998 (PG1-D998-$(T)_{17}$): Example comprising one T motif which is $(T)_n$ (n=17) without a TA extension; (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 142

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCG
TGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAC
GCCTGCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGC
CCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCA
GTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATA
GCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCC
TTAAAATTCCACCCTT

Fig. 6b continued

pG1-6 PE-d998 (PG1-D998-TA$(T)_{18}$): Example comprising one T motif which is $(T)_n$ (n=18), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 143

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTTT
CGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG***
***ACGCCTGCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGT**
GCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTG
CAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCA
TAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGAT
CCTTAAAATTCCACCCTT

pG1-6 PE-d998 (PG1-D998-$(T)_{18}$): Example comprising one T motif which is $(T)_n$ (n=18) without a TA extension; (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 144

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***CGCCTGCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTG**
CCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGC
AGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCAT
AGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATC
CTTAAAATTCCACCCTT

Fig. 6b continued

pG1-6 PE-d998 (PG1-D998-TA$(T)_{19}$): Example comprising one T motif which is $(T)_n$ (n=19), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 145

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTT
TCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG***
***ACGCCTGCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGT**
GCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTG
CAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCA
TAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGAT
CCTTAAAATTCCACCCTT

pG1-6 PE-d998 (PG1-D998-$(T)_{19}$): Example comprising one T motif which is $(T)_n$ (n=19) without a TA extension; (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 146

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***CGCCTGCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTG**
CCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGC
AGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCAT
AGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATC
CTTAAAATTCCACCCTT

Fig. 6b continued

pG1-6 PE-d998 (PG1-D998-TA$(T)_{20}$): Example comprising one T motif which is $(T)_n$ (n=20), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 147

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTTT*GATGACCCCGTT
TTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATG
GACGCCTGCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAG
TGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTT
GCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCC
ATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGA
TCCTTAAAATTCCACCCTT

pG1-6 PE-d998 (PG1-D998-$(T)_{20}$): Example comprising one T motif which is $(T)_n$ (n=20) without a TA extension; (Duplication of core region -293 to -261, inserted between -261/-260)

SEQ ID 148

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTT
CGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG
ACGCCTGCTCCATATTTTTCCGGTTATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGT
GCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTG
CAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCA
TAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGAT
CCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-7 (PG1-D974-TA$(T)_n$): Example comprising one T motif which is $(T)_n$ (n=13-20), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 149

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAA
TTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAATAAATGGACGC
CTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTG
GTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATG
AGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGA
TGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-7 (PG1-D974-$(T)_n$): Example comprising one T motif which is $(T)_n$ (n=13-20) without a TA extension; (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 150

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATT
TCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAATAAATGGACGCCT
GCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGT
CTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGA
GCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGAT
GCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-7 (PG1-D974-TA$(T)_{13}$): Example comprising one T motif which is $(T)_n$ (n=13), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 151

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTT*GATGACCCCGTTTTCGTG
ACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAATA
AATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGAT
AATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAAT
AAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGG
GTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-7 (PG1-D974-$(T)_{13}$): Example comprising one T motif which is $(T)_n$ (n=13) without a TA extension; (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 152

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTT*GATGACCCCGTTTTCGTGAC
AAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAATAAA
TGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAA
TAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAA
CAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGT
TAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-7 (PG1-D974-TA$(T)_{14}$): Example comprising one T motif which is $(T)_n$ (n=14), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 153

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGTTTTCGT
GACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAAT*
*AAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGG
ATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATA
ATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATG
GGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-7 (PG1-D974-$(T)_{14}$): Example comprising one T motif which is $(T)_n$ (n=14) without a TA extension; (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 154

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTTTTCGTGA
CAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAATAA*
*ATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATA
ATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAA
ACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTG
TTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-7 (PG1-D974-TA$(T)_{15}$): Example comprising one T motif which is $(T)_n$ (n=15), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 155

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCG
TGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAA***
***TAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGG**
ATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATA
ATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATG
GGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-7 (PG1-D974-$(T)_{15}$): Example comprising one T motif which is $(T)_n$ (n=15) without a TA extension; (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 156

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGTTTTCGTG
ACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAATA***
***AATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGAT**
AATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAAT
AAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGG
GTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-7 (PG1-D974-TA$(T)_{16}$): Example comprising one T motif which is $(T)_n$ (n=16), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 157

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACG**
GATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAAT
AATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTAT
GGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-7 (PG1-D974-$(T)_{16}$): Example comprising one T motif which is $(T)_n$ (n=16) without a TA extension; (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 158

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGT
GACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAAT***
***AAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGG**
ATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATA
ATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATG
GGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-7 (PG1-D974-TA$(T)_{17}$): Example comprising one T motif which is $(T)_n$ (n=17), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 159

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACG**
GATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAAT
AATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTAT
GGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-7 (PG1-D974-$(T)_{17}$): Example comprising one T motif which is $(T)_n$ (n=17) without a TA extension; (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 160

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCG
TGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAA***
***TAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGG**
ATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATA
ATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATG
GGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-7 (PG1-D974-TA$(T)_{18}$): Example comprising one T motif which is $(T)_n$ (n=18), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 161

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTTT
CGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG
AATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTAC
GGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAA
TAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTA
TGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-7 (PG1-D974-$(T)_{18}$): Example comprising one T motif which is $(T)_n$ (n=18) without a TA extension; (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 162

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA
ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACG
GATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAAT
AATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTAT
GGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-7 (PG1-D974-TA$(T)_{19}$): Example comprising one T motif which is $(T)_n$ (n=19), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 163

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTT
TCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG***
***AATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTAC**
GGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAA
TAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTA
TGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-7 (PG1-D974-$(T)_{19}$): Example comprising one T motif which is $(T)_n$ (n=19) without a TA extension; (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 164

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACG**
GATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAAT
AATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTAT
GGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-7 (PG1-D974-TA$(T)_{20}$): Example comprising one T motif which is $(T)_n$ (n=20), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 165

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGTT
TTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATG***
***GAATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTA**
CGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCA
ATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCT
ATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-7 (PG1-D974-$(T)_{20}$): Example comprising one T motif which is $(T)_n$ (n=20) without a TA extension; (Duplication of delta8 [SEQ ID 2] region -293 to -285, inserted between -285/-284)

SEQ ID 166

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTT
CGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG***
***AATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTAC**
GGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAA
TAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTA
TGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-8 (PG1-D980-TA$(T)_n$): Example comprising one T motif which is $(T)_n$ (n=13-20), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta9 region -275 to-261, inserted between -261/-260)

SEQ ID 167

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAA
TTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATA
TTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA
C**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACA
AGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTA
GATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-8 (PG1-D980-$(T)_n$): Example comprising one T motif which is $(T)_n$ (n=13-20) without a TA extension; (Duplication of delta9 region -275 to-261, inserted between -261/-260)

SEQ ID 168

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATT
TCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATT
TTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**G
GTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAA
GATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAG
ATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-8 (PG1-D980-TA$(T)_{13}$): Example comprising one T motif which is $(T)_n$ (n=13), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 169

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTT*GATGACCCCGTTTTCGTG
ACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCC
TGCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTAC
GGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAA
TAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTA
TGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-8 (PG1-D980-$(T)_{13}$): Example comprising one T motif which is $(T)_n$ (n=13) without a TA extension; (Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 170

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTT*GATGACCCCGTTTTCGTGAC
AAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCT
GCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACG
GATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAAT
AATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTAT
GGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-8 (PG1-D980-TA$(T)_{14}$): Example comprising one T motif which is $(T)_n$ (n=14), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 171

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGTTTTCGT
GACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACG
CCTGCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATT
ACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGC
AATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGC
TATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-8 (PG1-D980-$(T)_{14}$): Example comprising one T motif which is $(T)_n$ (n=14) without a TA extension; (Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 172

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTTTTCGTGA
CAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCT
GCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACG
GATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAAT
AATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTAT
GGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-8 (PG1-D980-TA$(T)_{15}$): Example comprising one T motif which is $(T)_n$ (n=15), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 173

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCG
TGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAC***
***GCCTGCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGAT**
TACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTG
CAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTG
CTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-8 (PG1-D980-$(T)_{15}$): Example comprising one T motif which is $(T)_n$ (n=15) without a TA extension; (Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 174

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGTTTTCGTG
ACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCC***
***TGCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTAC**
GGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAA
TAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTA
TGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-8 (PG1-D980-TA$(T)_{16}$): Example comprising one T motif which is $(T)_n$ (n=16), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 175

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***CGCCTGCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGA**
TTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGT
GCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGT
GCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-8 (PG1-D980-$(T)_{16}$): Example comprising one T motif which is $(T)_n$ (n=16) without a TA extension; (Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 176

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTT*GATGACCCCGTTTTCGT
GACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACG***
***CCTGCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATT**
ACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGC
AATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGC
TATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-8 (PG1-D980-TA$(T)_{17}$): Example comprising one T motif which is $(T)_n$ (n=17), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 177

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***CGCCTGCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGA**
TTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGT
GCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGT
GCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-8 (PG1-D980-$(T)_{17}$): Example comprising one T motif which is $(T)_n$ (n=17) without a TA extension;

(Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 178

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCG
TGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAC***
***GCCTGCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGAT**
TACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTG
CAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTG
CTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-8 (PG1-D980-TA$(T)_{18}$): Example comprising one T motif which is $(T)_n$ (n=18), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 179

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTTT
CGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG***
***ACGCCTGCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGG**
ATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATG
TGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAG
TGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-8 (PG1-D980-$(T)_{18}$): Example comprising one T motif which is $(T)_n$ (n=18) without a TA extension; (Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 180

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***CGCCTGCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGA**
TTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGT
GCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGT
GCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-8 (PG1-D980-TA$(T)_{19}$): Example comprising one T motif which is $(T)_n$ (n=19), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 181

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTT
TCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG***
***ACGCCTGCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGG**
ATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATG
TGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAG
TGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-8 (PG1-D980-$(T)_{19}$): Example comprising one T motif which is $(T)_n$ (n=19) without a TA extension;

(Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 182

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***CGCCTGCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGA**
TTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGT
GCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGT
GCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-8 (PG1-D980-TA$(T)_{20}$): Example comprising one T motif which is $(T)_n$ (n=20), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 183

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGTT
TTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATG***
***GACGCCTGCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGG**
GATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTAT
GTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAA
GTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-8 (PG1-D980-$(T)_{20}$): Example comprising one T motif which is $(T)_n$ (n=20) without a TA extension; (Duplication of delta9 [SEQ ID 3] region -275 to-261, inserted between -261/-260)

SEQ ID 184

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTT
CGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG***
***ACGCCTGCTCCATATTTTTCCGGTTCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGG**
ATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATG
TGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAG
TGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-9 (PG1-D1034-TA(T)$_n$): Example comprising one T motif which is (T)$_n$ (n=13-20), extended by preceding TA (extending the T motif at its 5'-end to become a TA(T)$_n$ motif); (Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 185

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAA
TTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATA
TTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCC
GGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAAT
ACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGA
TTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAG
TGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-9 (PG1-D1034-(T)$_n$): Example comprising one T motif which is (T)$_n$ (n=13-20) without a TA extension; (Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 186

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATT
TCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATT
TTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGG
TT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATAC
GCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTA
GTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTG
AGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-9 (PG1-D1034-TA$(T)_{13}$): Example comprising one T motif which is $(T)_n$ (n=13), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 187

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTT*GATGACCCCGTTTTCGTG
ACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCC
TGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCA
TATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGA
TTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAAT
TTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTT
GGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-9 (PG1-D1034-$(T)_{13}$): Example comprising one T motif which is $(T)_n$ (n=13) without a TA extension;

(Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 188

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTTTTCGTGAC
AAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCT
GCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCAT
ATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGAT
TAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATT
TATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTG
GATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-9 (PG1-D1034-TA$(T)_{14}$): Example comprising one T motif which is $(T)_n$ (n=14), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 189

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCGT
GACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACG
CCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTC
CATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTG
GATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCC
AATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCA
CTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-9 (PG1-D1034-$(T)_{14}$): Example comprising one T motif which is $(T)_n$ (n=14) without a TA extension;

(Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 190

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGA
CAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCT
GCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCAT
ATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGAT
TAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATT
TATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTG
GATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-9 (PG1-D1034-TA$(T)_{15}$): Example comprising one T motif which is $(T)_n$ (n=15), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 191

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCG
TGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAC***
GCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGC
***TCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCT
GGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGC
CAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGC
ACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-9 (PG1-D1034-$(T)_{15}$): Example comprising one T motif which is $(T)_n$ (n=15) without a TA extension; (Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 192

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTG
ACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCC***
TGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCA
***TATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGA
TTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAAT
TTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTT
GGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-9 (PG1-D1034-TA$(T)_{16}$): Example comprising one T motif which is $(T)_n$ (n=16), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 193

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA
CGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTG
CTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTC
TGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAG
CCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATG
CACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-9 (PG1-D1034-$(T)_{16}$): Example comprising one T motif which is $(T)_n$ (n=16) without a TA extension;

(Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 194

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGT
GACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACG
CCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTC
CATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTG
GATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCC
AATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCA
CTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-9 (PG1-D1034-TA$(T)_{17}$): Example comprising one T motif which is $(T)_n$ (n=17), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 195

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA
CGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTG
CTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTC
TGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAG
CCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATG
CACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-9 (PG1-D1034-$(T)_{17}$): Example comprising one T motif which is $(T)_n$ (n=17) without a TA extension; (Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 196

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCG
TGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAC
GCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGC
TCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCT
GGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGC
CAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGC
ACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-9 (PG1-D1034-TA($T)_{18}$): Example comprising one T motif which is $(T)_n$ (n=18), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 197

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTTT
CGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG
ACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCT
GCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGT
CTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGA
GCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGAT
GCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-9 (PG1-D1034-($T)_{18}$): Example comprising one T motif which is $(T)_n$ (n=18) without a TA extension;

(Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 198

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA
CGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTG
CTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTC
TGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAG
CCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATG
CACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-9 (PG1-D1034-TA($T)_{19}$): Example comprising one T motif which is $(T)_n$ (n=19), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 199

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGTTT
TCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG
ACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCT
GCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGT
CTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGA
GCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGAT
GCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-9 (PG1-D1034-($T)_{19}$): Example comprising one T motif which is $(T)_n$ (n=19) without a TA extension; (Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 200

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA
CGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTG
CTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTC
TGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAG
CCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATG
CACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-9 (PG1-D1034-TA$(T)_{20}$): Example comprising one T motif which is $(T)_n$ (n=20), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif); (Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 201

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGTT
TTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATG
GACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCC
TGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGG
TCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGA
GCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGAT
GCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-9 (PG1-D1034-$(T)_{20}$): Example comprising one T motif which is $(T)_n$ (n=20) without a TA extension;

(Duplication of delta7 to delta 10 region -310 to -242, inserted between -242/-241)

SEQ ID 202

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTT
CGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG
ACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGTTTGATTATCCGTTCGG*ATAAATGGACGCCT
GCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGT
CTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGA
GCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGAT
GCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-12 (PG1-s492-TA($T)_n$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=13-20), extended by preceding TA (extending the T motif at its 5'-end to become a $TA(T)_n$ motif);

SEQ ID 203

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**C**
CGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCC
ACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTT
ACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

pG1-12 (PG1-s492-($T)_n$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=13-20) without a TA extension;

SEQ ID 204

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCG**
GATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCAC
CTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTAC
ATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTG
ACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGT
ATAAAAGATCCTTAAAATTCCACCCTT

pG1-12 (PG1-s492-TA($T)_{13}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=13), extended by preceding TA (extending the T motif at its 5'-end to become a $TA(T)_n$ motif);

SEQ ID 205

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGG
GGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGT***
***T*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACG
CCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAG
TTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGA
GTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-12 (PG1-s492-$(T)_{13}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=13) without a TA extension;

SEQ ID 206

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGG
GTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT***
ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGC
CAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGT
TGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAG
TTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-12 (PG1-s492-TA$(T)_{14}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=14), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 207

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACG
GGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGG***
***TT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATAC
GCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTA
GTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTG
AGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-12 (PG1-s492-$(T)_{14}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=14) without a TA extension;

SEQ ID 208

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGG
GTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT***
ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGC
CAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGT
TGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAG
TTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-12 (PG1-s492-TA$(T)_{15}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=15), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 209

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAAC
GGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCG
GTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATA
CGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATT
AGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGT
GAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-12 (PG1-s492-$(T)_{15}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=15) without a TA extension;

SEQ ID 210

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGG
GGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGT
T*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACG
CCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAG
TTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGA
GTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-Δ2 comprising the TA$(T)_{14}$ motif with deletion of -628 to -612, at the position indicated with "del" (underlined)

SEQ ID 211

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGdelCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGT
CAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAA
AAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATC
AAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCC
AACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTT
CCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTA
ATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTG
GATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGC
AGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-12 (PG1-s492-$(T)_{16}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=16) without a TA extension;

SEQ ID 212

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACG
GGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGG
TT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATAC
GCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTA
GTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTG
AGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-12 (PG1-s492-TA$(T)_{17}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=17), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 213

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCA
ACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTC
CGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAA
TACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGG
ATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCA
GTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-12 (PG1-s492-$(T)_{17}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=17) without a TA extension;

SEQ ID 214

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAAC
GGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCG
GTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATA
CGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATT
AGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGT
GAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-12 (PG1-s492-TA$(T)_{18}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=18), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 215

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCA
ACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTC*
*CGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAA
TACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGG
ATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCA
GTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-12 (PG1-s492-$(T)_{18}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=18) without a TA extension;

SEQ ID 216

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAAC
GGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTCCG*
*GTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATA
CGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATT
AGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGT
GAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-12 (PG1-s492-TA$(T)_{19}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=19), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 217

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCC
AACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTT*
*CCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTA
ATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTG
GATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGC
AGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-12 (PG1-s492-$(T)_{19}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=19) without a TA extension;

SEQ ID 218

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAA
CGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTCC*
***GGTTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAAT
ACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGA
TTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAG
TGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-12 (PG1-s492-TA$(T)_{20}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=20), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 219

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTC
CAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTT***
***TCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATT
AATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTG
GATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGC
AGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-12 (PG1-s492-$(T)_{20}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=20) without a TA extension;

SEQ ID 220

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCA
ACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTC***
***CGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAA
TACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGG
ATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCA
GTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-13 (PG1--s663-TA(T)$_n$): Example comprising a fragment of pG1 containing one T motif which is (T)$_n$ (n=13-20), extended by preceding TA (extending the T motif at its 5'-end to become a TA(T)$_n$ motif);

SEQ ID 221

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTA
ATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCAT
ATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGAT
TAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATT
TATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTG
GATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-13 (PG1--s663-(T)$_n$): Example comprising a fragment of pG1 containing one T motif which is (T)$_n$ (n=13-20) without a TA extension;

SEQ ID 222

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAAT
TTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATAT
TTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTA
ATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTA
TTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGA
TGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-13 (PG1--s663-TA(T)$_{13}$): Example comprising a fragment of pG1 containing one T motif which is (T)$_n$ (n=13), extended by preceding TA (extending the T motif at its 5'-end to become a TA(T)$_n$ motif);

SEQ ID 223

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTT*GATGACCCCGTTTTCGT
GACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACG
CCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGT
GGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGAT
GAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATG
ATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-13 (PG1--s663-$(T)_{13}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=13) without a TA extension;

SEQ ID 224

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTTTTCGTGA
CAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCT
GCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGT
CTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGA
GCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGAT
GCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-13 (PG1--s663-TA$(T)_{14}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=14), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 225

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGTTTTCG
TGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAC
GCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GG
TGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGA
TGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGAT
GATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-13 (PG1--s663-$(T)_{14}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=14) without a TA extension;

SEQ ID 226

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGTTTTCGTG
ACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCC
TGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGG
TCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGA
GCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGAT
GCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-13 (PG1--s663-TA$(T)_{15}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=15), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 227

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***CGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**G
GTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAA
GATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAG
ATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-13 (PG1--s663-$(T)_{15}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=15) without a TA extension;

SEQ ID 228

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGTTTTCGT
GACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACG***
***CCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGT
GGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGAT
GAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATG
ATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-13 (PG1--s663-TA$(T)_{16}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=16), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 229

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***CGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**G
GTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAA
GATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAG
ATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-13 (PG1--s663-$(T)_{16}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=16) without a TA extension;

SEQ ID 230

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCG
TGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGAC***
***GCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GG
TGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGA
TGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGAT
GATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-13 (PG1--s663-TA$(T)_{17}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=17), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 231

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTT
CGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG***
***ACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**
GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACA
AGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTA
GATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-13 (PG1--s663-$(T)_{17}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=17) without a TA extension;

SEQ ID 232

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***CGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**G
GTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAA
GATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAG
ATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-13 (PG1--s663-TA$(T)_{18}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=18), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 233

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTT
TCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG***
***ACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**
GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACA
AGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTA
GATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-13 (PG1--s663-$(T)_{18}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=18) without a TA extension;

SEQ ID 234

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***CGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**G
GTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAA
GATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAG
ATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-13 (PG1--s663-TA$(T)_{19}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=19), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 235

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTT
TTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATG***
***GACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATA**
CGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACA
AGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTA
GATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-13 (PG1--s663-$(T)_{19}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=19) without a TA extension;

SEQ ID 236

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTT
CGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG***
***ACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**
GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACA
AGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTA
GATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-13 (PG1--s663-TA$(T)_{20}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=20), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 237

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGT
TTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAAT***
***GGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAAT**
ACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAA
CAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGT
TAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-13 (PG1--s663-$(T)_{20}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=20) without a TA extension;

SEQ ID 238

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTTT*GATGACCCCGTTT
TCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG***
***ACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**
GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACA
AGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTA
GATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-14 (PG1--s858-TA(T)$_n$): Example comprising a fragment of pG1 containing one T motif which is (T)$_n$ (n=13-20), extended by preceding TA (extending the T motif at its 5'-end to become a TA(T)$_n$ motif);

SEQ ID 239

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TA(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGA
ATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGC
CCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCA
GTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATA
GCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCC
TTAAAATTCCACCCTT

pG1-14 (PG1--s858-(T)$_n$): Example comprising a fragment of pG1 containing one T motif which is (T)$_n$ (n=13-20) without a TA extension;

SEQ ID 240

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*(T)$_n$*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATT
TTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCC
AGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGT
CTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGC
TAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTT
AAAATTCCACCCTT

Fig. 6b continued

pG1-14 (PG1--s858-TA$(T)_{13}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=13), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 241

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TATTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGG
ATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTCCGGTT*ATTACCCCACCT
GGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACAT
TTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGAC
CCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTAT
AAAAGATCCTTAAAATTCCACCCTT

pG1-14 (PG1--s858-$(T)_{13}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=13) without a TA extension;

SEQ ID 242

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGAT
AAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTCCGGTT*ATTACCCCACCTG
GAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATT
TTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACC
CCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATA
AAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-14 (PG1--s858-TA$(T)_{14}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=14), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 243

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TATTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCG
GATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTCCGGTT*ATTACCCCAC
CTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTAC
ATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTG
ACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGT
ATAAAAGATCCTTAAAATTCCACCCTT

pG1-14 (PG1--s858-$(T)_{14}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=14) without a TA extension;

SEQ ID 244

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGA
TAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTCCGGTT*ATTACCCCACCTG
GAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATT
TTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACC
CCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATA
AAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-14 (PG1--s858-TA$(T)_{15}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=15), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 245

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TATTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCG**
GATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTCCGGTT*ATTACCCCAC
CTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTAC
ATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTG
ACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGT
ATAAAAGATCCTTAAAATTCCACCCTT

pG1-14 (PG1--s858-$(T)_{15}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=15) without a TA extension;

SEQ ID 246

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGG**
ATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTCCGGTT*ATTACCCCACCT
GGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACAT
TTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGAC
CCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTAT
AAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-14 (PG1--s858-TA$(T)_{16}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=16), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 247

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CC**
GGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTCCGGTT*ATTACCCCA
CCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTA
CATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

pG1-14 (PG1--s858-$(T)_{16}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=16) without a TA extension;

SEQ ID 248

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGG**
ATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTCCGGTT*ATTACCCCACCT
GGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACAT
TTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGAC
CCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTAT
AAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-14 (PG1--s858-TA$(T)_{17}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=17), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 249

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TATTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**C**
CGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCC
ACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTT
ACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

pG1-14 (PG1--s858-$(T)_{17}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=17) without a TA extension;

SEQ ID 250

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CCG**
GATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCAC
CTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTAC
ATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTG
ACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGT
ATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-14 (PG1--s858-TA$(T)_{18}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=18), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 251

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TATTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT
**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCC
CACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCT
TACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCT
TGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGA
GTATAAAAGATCCTTAAAATTCCACCCTT

pG1-14 (PG1--s858-$(T)_{18}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=18) without a TA extension;

SEQ ID 252

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**CC
GGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCCA
CCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTTA
CATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-14 (PG1--s858-TA$(T)_{19}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=19), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 253

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTG
T**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACC
CCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTC
TTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGC
TTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGG
AGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-14 (PG1--s858-$(T)_{19}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=19) without a TA extension;

SEQ ID 254

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT**C
CGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACGCCTGCTCCATATTTTTCCGGTT*ATTACCCC
ACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCTT
ACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-14 (PG1--s858-TA$(T)_{20}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=20), extended by preceding TA (extending the T motif at its 5'-end to become a TA$(T)_n$ motif);

SEQ ID 255

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TATTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTT
GT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTCCGGTT*ATTAC
CCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGT
CTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAG
CTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGG
AGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-14 (PG1--s858-$(T)_{20}$): Example comprising a fragment of pG1 containing one T motif which is $(T)_n$ (n=20) without a TA extension;

SEQ ID 256

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGT
**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA*CGCCTGCTC*CATATTTTTCCGGTT*ATTACCC
CACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGTGGTCTGGATTAATTAATACGCCAAGTCT
TACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCT
TGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGA
GTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-15 (PG1-$(T)_{16}$)

SEQ ID 257

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTT*GATGACCCCGTTTTCGT
GACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGACG***
***CCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**GGT
GGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGAT
GAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATG
ATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1-16 (PG1-$(T)_{18}$)

SEQ ID 258

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTT*GATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGGA***
***CGCCTGCTCCATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**G
GTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAA
GATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAG
ATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 6b continued

pG1-17 (PG1-$(T)_{20}$)

SEQ ID 259

CAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATATACTGCTAATAGAAAACAGTAAGACGCTCAGTTG
TCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCC
GCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTT
TAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTC
CATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTT
TTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACA
GGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTT
TTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGC*TTTTTTTTTTTTTTTTTTT*GATGACCCCGTTTT
CGTGACAAATTAATTTCCAACGGGGTCTTGT**CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGG*ATAAATGG*
***A*CGCCTGCTC*CATATTTTTCCGGTT*ATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATAC**
GGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACA
AGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTA
GATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 7

native pGAP promoter sequence of P. pastoris (GS115) (SEQ ID 260)

CTGCTACTCTGGTCCCAAGTGAACCACCTTTTGGACCCTATTGACCGGACCTTAACTTGCCAAACCTAAACGCTTA
ATGCCTCAGACGTTTTAATGCCTCTCAACACCTCCAAGGTTGCTTTCTTGAGCATGCCTACTAGGAACTTTAACGA
ACTGTGGGGTTGCAGACAGTTTCAGGCGTGTCCCGACCAATATGGCCTACTAGACTCTCTGAAAAATCACAGTTT
TCCAGTAGTTCCGATCAAATTACCATCGAAATGGTCCCATAAACGGACATTTGACATCCGTTCCTGAATTATAGTC
TTCCACCGTGGATCATGGTGTTCCTTTTTTTCCCAAAGAATATCAGCATCCCTTAACTACGTTAGGTCAGTGATGA
CAATGGACCAAATTGTTGCAAGGTTTTTCTTTTTCTTTCATCGGCACATTTCAGCCTCACATGCGACTATTATCGAT
CAATGAAATCCATCAAGATTGAAATCTTAAAATTGCCCCTTTCACTTGACAGGATCCTTTTTTGTAGAAATGTCTTG
GTGTCCTCGTCCAATCAGGTAGCCATCTCTGAAATATCTGGCTCCGTTGCAACTCCGAACGACCTGCTGGCAACG
TAAAATTCTCCGGGGTAAAACTTAAATGTGGAGTAATGGAACCAGAAACGTCTCTTCCCTTCTCTCTCCTTCCACC
GCCCGTTACCGTCCCTAGGAAATTTTACTCTGCTGGAGAGCTTCTTCTACGGCCCCCTTGCAGCAATGCTCTTCCC
AGCATTACGTTGCGGGTAAAACGGAGGTCGTGTACCCGACCTAGCAGCCCAGGGATGGAAAAGTCCCGGCCGT
CGCTGGCAATAATAGCGGGCGGACGCATGTCATGAGATTATTGGAAACCACCAGAATCGAATATAAAAGGCGA
ACACCTTTCCCAATTTTGGTTTCTCCTGACCCAAAGACTTTAAATTTAATTTATTTGTCCCTATTTCAATCAATTGAA
CAACTATCAAAACACA

Rgt1 (PAS_chr1-3_0233) (SEQ ID 261)

MIPTIDPKDPELVSEDTAQSASARKRSKVSRACDECRRKKIKCDATFLANSNTLLKPCTNCYKYNCSCSFTRVPLKRGPS
KGFARDGSGYERRRSSSVHSVSSSQSVTSPVPSHASLPIPPANPVSLPRLNVPGDGLLSPKAVPPTNLFWKVPYELPSFS
DRRSSVASADSFRRPSIYQSDSEDDFYSATGSQRNSISQAPRQRNLSPALSVSSTSSLNNRIKSLNMVASTLESNIHNYY
SQGFNSSLPILPLDERILSTLLSNVSNGSSSASWDAIRSPILELFDKSILMLLRSYESQFNFNDLLDHVTEMQSIYPRIRSHL
LSDELLKLIFLMSGVLTDYALILTGQPYSTGLSITVSVFNDWKTYENVQRVLVINRAGSLDLDYDSLPFLFARCYLSLATLD
LIYSLSFSSPRLISSFANLPILDIVQKCGITKDAKLDETPLPVLDQFLNCFLPGDTYPTALNTLKTGLVLLDFTNNRSTTLRFP
FINIHDDNHMTGLSHLLSNVSDFMSQFTEVHSDSKDSQLLFLRCIWAFWEIGSVLSELIDHFISSSANSQVGDKDASFF
YEHQLKVTTLLGTFSNIASAFLTSSTTAASHPPPSISPFHIISMVESFKMVQFLNKLIASFISLNEKLEKRELEDELSKCKEEL
NNLNERFQAVSSVQTLPVVHVLFRDLVFSSNRLDTQRDRASSVVSATTTTSTATTTATTKKSSFGNLLHSDEENILPTVI
DWCKEQKHSAEMFLNKNDLNGWLY

Cat8-1 (PAS_chr2-1_0757) (SEQ ID 262)

MMPEEQVTSPQRKHQKSKAKTIRAPGSSIERVAQACDRCRSKKTRCDGKRPQCSQCAAVGFECKISDKLSRRAFPRG
YTETLEERIRELEFENKKLHKLIDLKNEQVEIKNRIDQESTLTNENLTLLNKEQEVSHSGNIHHHADGEPCNCANSVSARP
VSIAGSVDIDTTDLSDEDDSLYSAASYNAKYHQTGTSGPEMVRLSQRYSSGNFNDPLSFEQSNAPGAAAAISIQNKMR
TQTFVNLANLVAMSIPRTTEETLFIASLLAKICNVHGFQSKAPILTAKSIALLKDKYNYGNDEVFANITLKNVNFNKLTSQ
QSQQFFQSLNLPNQVNLDLFITTFFNTWNNFIPIINRHIFMSSYIKFNKSRETMFTDNSMFGNEKFGEILLLITTMVMLS
QERNNNREAVPSSSYKKDSTPHPHRPDASSQSNVEILQYYDHLIHEFIKSNISDDCSLPTLESLSLQLLYCLAIGDLTTSYE
LRGKIITMGQQLRLHRCPSAVLGTNGSKVSQMQQGERRILFWCIYILDTFSALILGVPRLLKDYEIECALPFSNESNNAN
VKGSIENTTNTVIINNIKLSLAGKVSDCALAVMRYSKVLGNILDSIFQRSSINNPSVVSKSTNITEETCLLHEHALDLWRRE
LSPHINVDLDKSPGGVEYERLSDNQLTILFLYYHAKILIYLPLMANESSQSRSSASYINIQQSTTSILAIANTLATKERNFYFL
PLPVNLSREKVRLAFLSAKGSLEYARGGALFQESKILLASVINELKIETSIGMLGCLSVPCMEAVDNAMEQIMALPGKVS
SVNGSNSEMKRSSSKRKSSPLRQDISGDERKSHNIEVSDSRTPSVQSSLYPQPNQMHHPNIIKSENNEQMIPENDTPG
AINDIFTSHSPPGTVTSMKEEDLPIKVPILLQTQQRQIYNNNPNHSLFSQQPGTQVLSGQQMPGPSSTDQQFKRITTP
DGLDSLMMQDFGVDASLGLPMLDFDFNFDFENVQNNYSQSNVSPPNSESVPSSIQGTHSNDPKDSQVSAGSLFGL

Fig. 7 (continued)

Cat8-2 (PAS_chr4_0540) (SEQ ID 263)

MKENQASNKFNLIKNPITGKPRISQACDRCRIKKIKCDGTLPSCTNCSKIGFVCKISDRLTRSSFPKGYTKNLEQKLIDME
LDRNRLMLELNRIKKEGFDGTNNNIAMASSVSSSENLKSDDSSECQSVTVSLSSTSGPSLSPEPKQDDFRFRVGMDGS
FVLNQFLQSPLMDYIKSLNVLQFNGCANFDQSFNDDPLVLNKYHMNLNRFLNLIFYKLLLPLIHRNSNTLNEKFAEDNN
SLDSLIWKFFTNYNKLIPILEFDSFYKDYLQFIHKYYSNNQVFVDGFRKYFEFSEFEQCFIVKLILILKFTLPVIHDTSVPSEIY
RLISMDSLQRLFGNIDFLKPSTDKVSILLLVLHYMVLYESPKSLLDTQDEAQKYDEFIGNLLSTAVHHITSLRLHIDPRKLQ
FPRPLPSNGNRLRIKLSWCYKLISKLFRVIYNIDNDSLYSLDDSHLPELQSISILHEELDVTIQFNNLLNLIPNNFHSLRDKQ
SLSKIKTQLLEWHKNFNTEFVEHFNLNDTDSDELSAEKINVLRSKLISLNRLNCYNSYFQLVIELQLKENLDSVVSGIFGLS
NEMLIDNKSSTELLNTLQQTPIIHQSSILVSLCYRIQTGNLQDEICSILVNNYEKLLQCNDAGLPIKILPQLVHYFKGKISTN
LSNSAAHEDLMNMFTLNDNLSTTTTDLDSFIIPPKRKQDQTLPIGTKRSKSASTSSVISSDDCSLFSNSLSVPTTFSGSSIS
VGMDNPPSSLFGSYKRPSSIVKQEPTINPRSNGTNTDSNLFDTFNDSIKGSLNNGLKKLKDIRCNSVVERSHSSQRNDF
LMDQEDSITKETINFSELFTCGTPTASQSIDRSPKSLLLNDLAIAPDTLVIKPDAEDLDRLKNKIRSVKSTVH

Fig. 8: Prior art sequences

pG1 (SEQ ID 264) DNA; Pichia pastoris

ATTTCCACCCCCATCCCAGTAGAATGTAGGGTCCCCAAACATTTGCTCCCCCTAGTCTCCAGGGAAATGTAAAATA
TACTGCTAATAGAAAACAGTAAGACGCTCAGTTGTCAGGATAATTACGTTCGACTGTAGTAAAACAGGAATCTGT
ATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAAACCCCACTAC
TTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTCATCGGTTAA
CAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCG
GAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTT
GGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATC
TCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCT
CCGCTATTTTTTTTTTTTTTTGATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGTCCGGATAAGA
GAATTTTGTTTGATTATCCGTTCGGATAAATGGACGCCTGCTCCATATTTTTCCGGTTATTACCCCACCTGGAAGT
GCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGC
AGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCAT
AGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATC
CTTAAAATTCCACCCTT

pG1a (SEQ ID 265)

GGAATCTGTATTGTTAGAAAGAACGAGAGTTTTTTACGGCGCCGCCATATTGGGCCGTGTGAAAACAGCTTGAA
ACCCCACTACTTTCAAAGGTTCTGTTGCTATACACGAACCATGTTTAACCAACCTCGCTTTTGACTTGACTGAAGTC
ATCGGTTAACAATCAAGTACCCTAGTCTGTCTGAATGCTCCTTTCCATATTCAGTAGGTGTTTCTTGCACTTTTGCA
TGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCTTTTACCCCCTCTTTTGTCAAGCGCAAAATGCCT
GTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAACAGGCTAATTCCCTGAAAAAACTGCAGATAGAC
TTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAACTCTAATCTAAAA
CCTGAATCTCCGCTATTTTTTTTTTTTTTTTGATGACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGTCC
GGATAAGAGAATTTTGTTTGATTATCCGTTCGGATAAATGGACGCCTGCTCCATATTTTTCCGGTTATTACCCCAC
CTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACA
TTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGA
CCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTA
TAAAAGATCCTTAAAATTCCACCCTT

Fig. 8 (continued)

pG1b (SEQ ID 266)

CCATATTCAGTAGGTGTTTCTTGCACTTTTGCATGCACTGCGGAAGAATTAGCCAATAGCGCGTTTCATATGCGCT
TTTACCCCCTCTTTTGTCAAGCGCAAAATGCCTGTAAGATTTGGTGGGGGTGTGAGCCGTTAGCTGAAGTACAAC
AGGCTAATTCCCTGAAAAAACTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTT
TTTCCTGATATGCATCAAAACTCTAATCTAAAACCTGAATCTCCGCTATTTTTTTTTTTTTTTTGATGACCCCGTTTTC
GTGACAAATTAATTTCCAACGGGGTCTTGTCCGGATAAGAGAATTTTGTTTGATTATCCGTTCGGATAAATGGAC
GCCTGCTCCATATTTTTCCGGTTATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGT
GGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGAT
GAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATG
ATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1c (SEQ ID 267)

CTGCAGATAGACTTCAAGATCTCAGGGATTCCCACTATTTGGTATTCTGATATGTTTTTCCTGATATGCATCAAAA
CTCTAATCTAAAACCTGAATCTCCGCTATTTTTTTTTTTTTTTTGATGACCCCGTTTTCGTGACAAATTAATTTCCAA
CGGGGTCTTGTCCGGATAAGAGAATTTTGTTTGATTATCCGTTCGGATAAATGGACGCCTGCTCCATATTTTTCCG
GTTATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATAC
GCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTA
GTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTG
AGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

pG1d (SEQ ID 268)

GACCCCGTTTTCGTGACAAATTAATTTCCAACGGGGTCTTGTCCGGATAAGAGAATTTTGTTTGATTATCCGTTCG
GATAAATGGACGCCTGCTCCATATTTTTCCGGTTATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACG
GATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATA
ATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATG
GGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

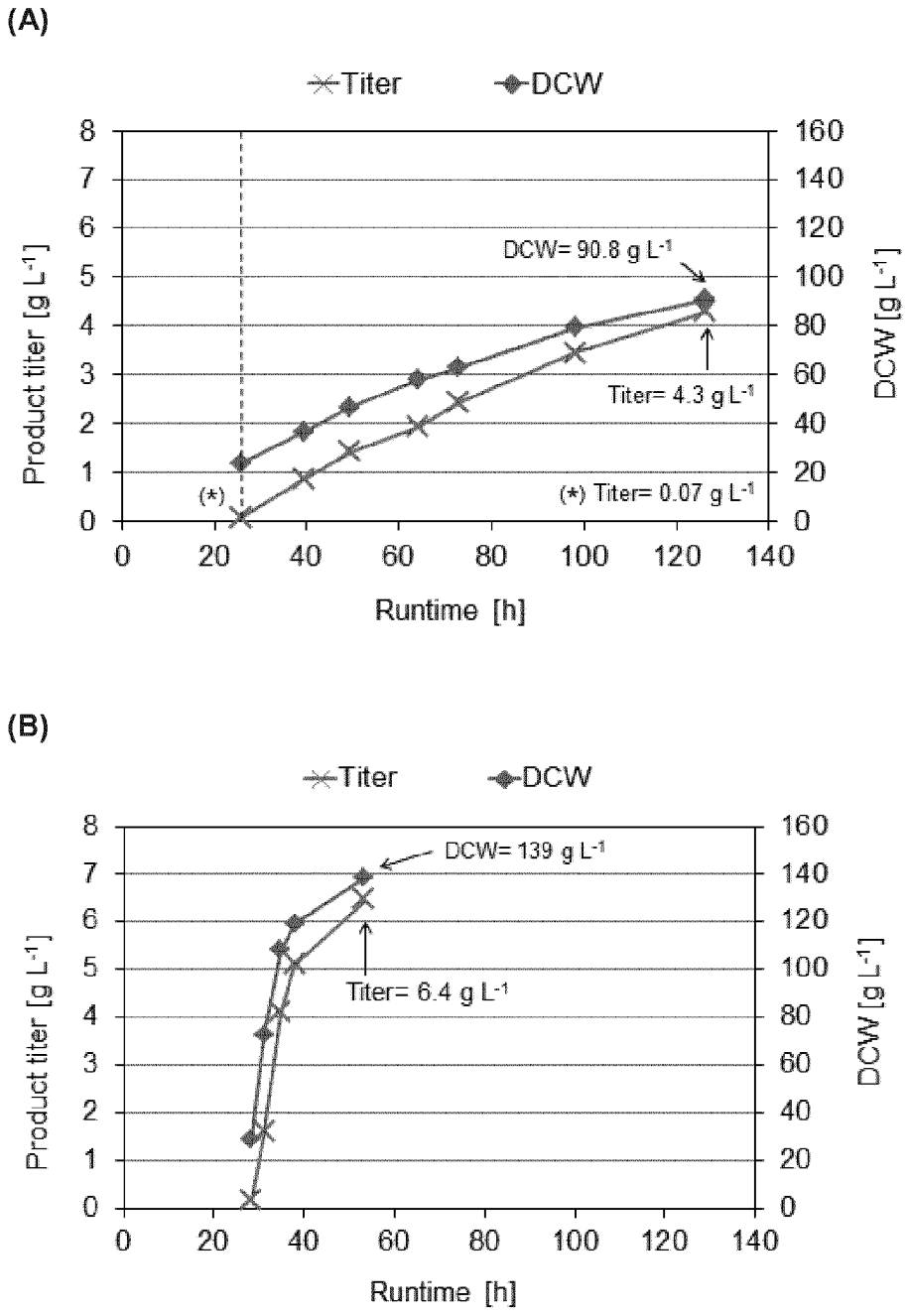
pG1e (SEQ ID 269)

CCGGATAAGAGAATTTTGTTTGATTATCCGTTCGGATAAATGGACGCCTGCTCCATATTTTTCCGGTTATTACCCC
ACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGTGGTCTGGATTAATTAATACGCCAAGTCTTA
CATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGATGAGCCAATTTATTGGATTAGTTGCAGCTT
GACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATGATGCACTTGGATGCAGTGAGTTTTGGAG
TATAAAAGATCCTTAAAATTCCACCCTT

pG1f (SEQ ID 270)

GCCTGCTCCATATTTTTCCGGTTATTACCCCACCTGGAAGTGCCCAGAATTTTCCGGGGATTACGGATAATACGGT
GGTCTGGATTAATTAATACGCCAAGTCTTACATTTTGTTGCAGTCTCGTGCGAGTATGTGCAATAATAAACAAGAT
GAGCCAATTTATTGGATTAGTTGCAGCTTGACCCCGCCATAGCTAGGCATAGCCAAGTGCTATGGGTGTTAGATG
ATGCACTTGGATGCAGTGAGTTTTGGAGTATAAAAGATCCTTAAAATTCCACCCTT

Fig. 9


(A)
Titer
DCW
Product titer [g L-1]
DCW [g L-1]
Runtime [h]
DCW= 90.8 g L-1
Titer= 4.3 g L-1
(*)
(*) Titer= 0.07 g L-1
(B)
Titer
DCW
Product titer [g L-1]
DCW [g L-1]
Runtime [h]
DCW= 139 g L-1
Titer= 6.4 g L-1