





EsacCR1 GTCTGCTTCT CACCCGTGAT CGCGGCATCT GGATTGCCTG GGGCGCCTCT AGTAATTTTC TTCTTCTAAA CTCTTCAGG CTGCCCTCCG GTGCACCGCG [ 700]  
EsacCR2 ..... [ 700]

EsacCR1 GCGTGCCAT CGAAGACGTG AGCATAAGA CCGTCATCG GTCTTATT CGTGGTCAGG CGTCACTGGA TGAGACGGTT GAAGTATTG TGAATCATT [ 800]  
EsacCR2 ..... [ 800]

EsacCR1 **BSB** **B box** **CSB1**  
TTT**ACTG**T **GC**ACTTTGTT **TTCC**ATTGG **TTG**TTGGTGT GTCCACTAAC CCCTAACATG GTGT**TATTG** **ATGA**ATGCTT **GTTGG**ACATA TTTTTTCCA [ 900]  
EsacCR2 ..... [ 900]

EsacCR1 TATTCTACTT ATTTACTTTC CTCTAATTTT CTTTGAGTTC TAAAACAAA CTAGGTAECT TTCAACTAAA AATTTAGCGA GTATATCAA AAATTTTAC [1000]  
EsacCR2 ..... G. .... [1000]

EsacCR1 GAATCATATT CGTATATCTT ACATTACCTT **AAAG**CACTAG **AATTT**CATTA **AAA**ATATACT **ATAC**CTTCA **TGA**ACTGTAT **CCT**TATATCT **TTAC**GTTACC [1100]  
EsacCR2 ..... A ..... C. .... G. .... [1100]

EsacCR1 **TTA**CTGCTT **TAA**AGCACTA **AAATTT**CATT **AAAA**ATATACT **TATAC**CTTC **ATGA**ACTGTA **TCCT**TATATC **TTAC**GTTAC **CTTT**ACTGCT **TAA**AGCACT [1200]  
EsacCR2 ..... [1200]

EsacCR1 **AAA**ATTCAT **TAAA**ATATA **CTATAC**CTT **CATGA**ACTGT **ATC**CTTATAT **CTTTAC**GTTA **CCTTT**ACTGC **TTTAA**AGCAC **TAAA**ATTCA **TAAAA**ATAT [1300]  
EsacCR2 ..... [1300]

#EsacCR1 **ACT**TATACCCT **TCATGA**ACTG **TATC**CTTATA **CCTTT**ACTCT CAACCCCAA AACCCCATCA AAAATAAATT AAACGTACAA GCTTCCACCC CCACCATCCC [1400]  
#EsacCR2 ..... C ..... C. .... G. .... [1400]

EsacCR1 ATGCAAAATT AAACGCCACG CTCAATGCAA ..... [1500]  
EsacCR2 ..... TCAACCCTAC AGGCCCATC AACCAATATC TAACCCACA CAATAAACAA CAAACAACAA ACAATAAACAA [1500]

EsacCR1 ..... [1600]  
EsacCR2 ATAAACAATA AACACAACAA AATCAACAA TAAACAATA ACAATAACA ATAAACAATA AACATAAAC AATAAACAA AAACAACAA CAACAAACA [1600]

EsacCR1 ..... [1700]  
EsacCR2 CAAACAATA ACAATAACA ATAAACAATA AACATAAAC AATAACAAT AAACAATA CAATAAACAA TAAACAATA ACAATAACA ATAAACAATA [1700]

EsacCR1 ..... [1800]  
EsacCR2 AACATAAAC AATAACAAT AAACAACGTC CTTGTAGCTT AACACAAAG CATAGCACTG AAGATGCTAA GACGGATGCT CACATTCCA AGGACAAAAG [1800]

EsacCR1 ..... [1810]  
EsacCR2 ACTTAGTCCT [1810]

AbacCR1 CCTACTCCAC CCCACACAA AACACCTTA TAATGTACTC TCCTACATTA TGTA**CCCCC** **CTTAC**CCCCC CACACAATAA CTCTGCTCTA CAAGCAAGTT [ 100]  
AbacCR2 ..... [ 100]

AbacCR1 **TAS** **TAS** **TAS** **TAS** **TAS**  
GT**ATG**TATGG CTATGCATTA ACT**TAT**ATCC CTCATTAGCA GGTAATGTTA AGT**TATAC**AT TCAAGT**GAT** **GTA**CTAGGTC CATAGGATGC CT**GATG**TAAT [ 200]  
AbacCR2 ..... TC. .... T. .C. .... A. . .C. .... .T. .... .GT. . . . - .AC. AT G. TC. T. CG. [ 200]

AbacCR1 GTCATTCTT AGTCGTTCAA TAAGCTTCA GAGGAT-TAA TCT--TGTA TTAATTTAGG AATGGCTTCA TTATTCTGTA CTAAACCCAT TAGCTGATGA [ 300]  
AbacCR2 ACA. G. .... G. . T. .... T . TTCTA. . . T TG. T. CG. . . AT. AA. . . C . . . G. C. GT. G. . A. T. . . G A. . . AT. . . [ 300]

AbacCR1 GGTGTACATA TTAAGTGTT TCTAGTAAAT GACTGTGCTT GGGTTAAGTA AGTCAATGGT AGCAGACATG GTAATCAAT CATCTCTGA TGTGCCGGTC [ 400]  
AbacCR2 ..... [ 400]

AbacCR1 TCTAAAGTGT TAGGTTATTT ATTAATCGTC **CTTCT**CACGT **GA**AATCAGCA **ACCC**GGTGTA GATAAGGTTT **TACG**TTACTA **GCTT**CAGGAC **CATT**CATTCC [ 500]  
AbacCR2 ..... G. .... [ 500]

AbacCR1 CCCTACACCC TAGCACAACT TGCTCTTTTG **TACCT**CTGGT **TCCT**CGGTCA **GGG**CCATATC TCGGTTGACT TAGCACTCGG **TCCT**CTTAC **AGAG**TCAATT [ 600]  
AbacCR2 ..... [ 600]

AbacCR1 **GGT**TGATGCT TGTCIGCTTC TCACCCGTGA TCGCGACATC TGGATTGCCT GGGGCACCTC TAGTAATTTT TTCTTCTAA ACTTCTCAG GCAGCCCTCC [ 700]  
AbacCR2 ..... [ 700]

AbacCR1 GGTGCACCGC GCGCAGCCA TCGAAGACTG TGAGCATTTA GGACGCGTCA TTGACTCTT ATTAGTCTC AGGAATGACT GGATGAGACG GTTTGAGTGT [ 800]  
AbacCR2 ..... [ 800]

AbacCR1 **BSB** **B box** **CSB1**  
TTGTGGAATC ATTTT**AC** **TGTG**CACTTG **CTAT**TCATT **TG**TTGTTGG **TGTG**TCCACT ATCCCAAAT ATGGT**TTAT** **TGGT**GAAATG **CTT**GTTGGAC [ 900]  
AbacCR2 ..... [ 900]

AbacCR1 **ATA**ATTTTAC CTACACTTA CCTATTACA CTTCCTCTAA TTTCCTTTGA CTCTTAAAC AAGACTAGGT AAATTTCAAC TAAAAATTTA ACAAGTCTTA [1000]  
AbacCR2 ..... C. .... [1000]

AbacCR1 TCAAAAATTT TTTACATCT TATTCTTATA TTTTACATT CCTTCACCCA CTGGAGTTAC ATTAAAAAA CATACCATAA ACAACGTAAA TTTTTCGACG [1100]  
AbacCR2 ..... [1100]

AbacCR1 TGTTATTATA TATTGTGCA CAATTATCAC TATTCACACT GCTGAAGTTA CATTAAAAA ATAAACATTA CTATGCTTAG CACAACATA----- [1200]  
AbacCR2 ..... C. .... A CTCTGTCATC [1200]

AbacCR1 ----- [1300]  
AbacCR2 GCTTCCCAA ACTTATAACA AAATAAACA AACAAACCAAC TTAAACAACA AACAAAGCAAC AACAAAGCAA CAAATAAGCA ACAACAAGC AACAAACAAG [1300]

AbacCR1 ----- [1400]  
AbacCR2 CAACAACAACA GCAACAACA AGCAACAAC AAGCAACAAA CAAGCAACA ACAAGCAACA AACAAAGCAAC AACAAAGCAA CAAATAAGCA ACAATAAGC [1400]

AbacCR1 ----- [1500]  
AbacCR2 AACAAATAAG CAACAACAACA GCAACAATA AGCAACAAC AAGCAACAAA CAAGCAACA ATAAGCAACA AACAAAGCAAC AAATAGGCAA CAAACAAGCA [1500]

AbacCR1 ----- [1600]  
AbacCR2 ACAATAAGC AACAAACAAG CAACAACAACA GCAACAACA AGCAACAAT AAGCAACAAA CAAGCAACA ACAAGCAACA AACAAAGCAAC AACAAACAAG [1600]

AbacCR1 ----- [1692]  
AbacCR2 CAAACAAGCA ACAATAAGC AACAAATAAG CAACAACAACA GCAACAATA AGCAACAAT AAGCAACAAA TAAGCAACA ATAACGAACA CC [1692]

**C stretch TAS TAS TAS**  
BstrCR1 CTGCTACCCC CCCTTACCCC CCCATACATT CAAACTAGTT AGGTAGGGTC GTTATGTATG GGTACAGTTT CTATGTATAG GTGTACATTG GTTACAGGC [ 100]  
BstrCR2 ..... T.....A. .A..C. .... GA .CA. G...A AC...T.T.. [ 100]

**TAS TAS**  
BstrCR1 CCCTATATAA GTACAATGCT GGGAGTACAT TAGGACGCAC GTATAACCTA TCGAGCATCA CGGAAAAGCT ATGCACGAAG TCCATTGGAT GCCTGATATA [ 200]  
BstrCR2 .....-G..G .C-T...T. AA----- .TATA...T. TA.TG---C ...T..T..T .....TT.. .T..TTCG.. [ 200]

BstrCR1 -ATTTCTTTC CTTGACCGTT CTAAGCTTTC AGGGGATTAA TCTGTACTTA ACTTAGGAAT GATTCCATAA CCTGTACTAA AACCATAGTA ACAGTGGATT [ 300]  
BstrCR2 C. AGCTC..A A. C. T. .A. . . TCTA. .T ..... [ 300]

BstrCR1 GTATATGAGT AGTGGATTGA GTGTACGGGT GTGCTTGAAC ACAGTATTG AATGGTAGCA GGCCATGCTA GCTCAATAAT CTCTGAAGT ACCGGTATCT [ 400]  
BstrCR2 ..... C. .... [ 400]

**F box E box**  
BstrCR1 GAAGTACCAG GTGATTATT AATCGTTCCT CTCACGTGAA ACCAGCAACC CGTTCATAA AATGCTCTAC ACGACTAGCT TCAGGATCAT CCTTTCCCC [ 500]  
BstrCR2 ..... T..... [ 500]

**D box C box**  
BstrCR1 TACACCCTAG CCCAACTGCGCTTTTGGCGTCTCTGGTTC TCGGTACGGG CCATGGCTCG GTTACTTAG CACTCGGTCC TCTTCACAGA GTTATTGGT [ 600]  
BstrCR2 ..... G..... .C..... [ 600]

BstrCR1 TGATGCTTGT CTGCTTCTCA CCCGTGATCG CGACATCTAG ATTGCCTGGG GCCCCTCTAG TATTTTTTCT CTCTGGGTA ACTTCAGTGT GCCCCCCGGT [ 700]  
BstrCR2 ..... G..... [ 700]

BstrCR1 GGATCGCGGC GCAGCCATCG AAGACTGTGG ACCCACAGAC GCGTCATCG TCTCTATTA GCTTTCAGGA ATGACTGGAT GAGACGGTTG GAGTATTGT [ 800]  
BstrCR2 ..... G..... [ 800]

**BSB B box CSB1**  
BstrCR1 GGAATCATCT TTACCCGTG CACTTTGTTT TCCATTGGT TGTGGCGTG TCCACTATCC CCAAACATGG TGCTATTGA TGAATGCTTG TTGGACATAA [ 900]  
BstrCR2 ..... [ 900]

BstrCR1 TTCTACTTAC TTTCTTCTA TTTACACTTC CTCTAATTC CTTTCATTG ATTAACAACA CTAGGCAAAT TTCAACTAAA AATTTAACAA GCCTTGTGTA [1000]  
BstrCR2 ..... G..... A. [1000]

BstrCR1 AAATTTTCA CAAATCTTAT TCTTATATTT TACATTACTT TACACCCTG GAGTTACATT AAAAAACATG CCTTAAACAG CAAACTTTT TTGGCGTGT [1100]  
BstrCR2 ..... G..... .A..... [1100]

BstrCR1 ATTATATATT TACACATAAT TATTACCTTC CACACCCTG GAGTTACATT AAAAAAATA AGCATTTTTA TGCTTAACAT GATCAAATTT TATGTT--- [1200]  
BstrCR2 ..... C..... C ..... -.. ..... CCCT [1200]

BstrCR1 ----- [1300]  
BstrCR2 CTATACTAAC CAGCACTAAA ATTTCAACCA AACAAACAAC AACAAACGAAC GACGAACAAC GAACGAACA CAACGAACA CGGACGAACA ACAACGAACA [1300]

BstrCR1 ----- [1400]  
BstrCR2 ACGAACAAC AACAAACGAAC AACAAACAAC GAACAACGAA CGAACAACA CGAACAACGA ACAACAACA ACGAACAACA AACAAACGAAC AACAAACAAC [1400]

BstrCR1 ----- [1471]  
BstrCR2 AACGAACAAC AACAAACAAC AACAAACGAA CAACGAACA CGAACAACA ACAACGAACA ACGAACCAC C [1471]

**C stretch TAS TAS**  
NnyeCR1 ACTACCCCAA CAGTAAACAG TACGCTCAAT CTAGCTACCC CCCCTTACCC CCCATACAT CAACTGCTTA GGCAGGGCTG TATGTATGGC CATGCATTGG [ 100]  
NnyeCR2 ..... [ 100]

**TAS TAS TAS TAS**  
NnyeCR1 TCTATATGCC CCATGCATTA TGTAATGTTA GAGTATACAT TTATATTTAT GTACGGTACC CACAGAATGT TTGATGTAAT ATTTTGTCT TAGCTGTCA [ 200]  
NnyeCR2 ..... T...G...G ..C..... ..C.TC.T.G .---.CA. . . . .T.AT.T ..T.AG..A. .CT-...T.C .A---.A.A. ..A.....T. [ 200]

NnycCR1 TTCAT-TCTT TCAGGGGATT AATCCTGTAC TGTATTTAGG AATGGCTCA TAATCTGTAC TAAAACCATG GTTCGTTGAG CTGTGCATAG TAAGTGGATC [ 300]  
NnycCR2 C. AGCG. A. C . T. .... [ 300]

NnycCR1 GAAGGTACG GCTGTGCTTA AGCAAGTTAA CTGCAATGGT AGCTGCCAT GGAAGTTCAA CTGTACCTG ATGTGCCGT ATCTGAAGTA CCAGTTATT [ 400]  
NnycCR2 ..... A. T. .... [ 400]

**F box** **E box**

NnycCR1 TATTGGTCGG **TCTTCTCAG** **TGAAATCAG** **AACCCG**CCCG ATATAAGGCT **CTACGTTACT** **AGCTTCAGGA** **CCAT**TCTTTC CCCCTACACC CCTAGCCCGA [ 500]  
NnycCR2 ..... G. .... [ 500]

**D box** **C box**

NnycCR1 CTTGCTCTTT TGC**GCTCTG** **GTCTCTCGT** **CAGGGCCATA** GCTCGGTTGA CTTAGCACTC **AGTCCTCTTC** **ACAGAGTCAT** **TGGTTGATG** CTTGTCTGCT [ 600]  
NnycCR2 ..... [ 600]

NnycCR1 TCTCACCCGT GATCGCGACA TCTGGATTGC CTGGGGCGCC TCTAGTAATT TTTATCTTCT AAATTCTTC AGGCAGCCCT CCGGTGCACC GCGGCGCAGC [ 700]  
NnycCR2 ..... G. .... [ 700]

NnycCR1 CATCGAAGAC TGTGAGCATA CAGACGCGTC ATCGGCCTAT TATTGAGAG CGGGGAGCCA CTGGATGAGA CGTTGGAGT ATTGGTGTA TCATCTTTAC [ 800]  
NnycCR2 ..... [ 800]

**BSB** **B box** **CSB1**

NnycCR1 **ACTGTGCACT** **TGTTTTCCA** **TTGGTTGTT** **GGTGTGCCA** **CTAAC**CCCAA ACATGGTGCT **ATTTGGTAA** **TGCTTGTGG** **ACATA**ATTTT ACCTTAACCT [ 900]  
NnycCR2 ..... [ 900]

NnycCR1 TACTAATTTA CACTTCCTCT AATTCCTTT AACTTCACTT TGCAAATGTA GGAAC TTCA TCTAAAAATT TAACAACTT TTTAAAAAT TTTTACAAA [1000]  
NnycCR2 ..... [1000]

NnycCR1 TTTTATTCTT ATCTTTTACA TTACCTTAAA CCACTGGAGT TACATTAATA AATATAACCAT AAACAACACA AACTTTTTCG ACGTGTATT ATATATTTGT [1100]  
NnycCR2 ..... C. .... T. .... [1100]

NnycCR1 GCACATTAT CACTTCTCT ACCACTGGAG TTACATTAATA AAAAAACAAA CAATTATTAC ACTTAGTGTA ACCAAATTTT ATGCTTAAAC ACA----- [1200]  
NnycCR2 ..... GACACAC [1200]

NnycCR1 ----- [1300]  
NnycCR2 TTCCACCAAA CCCCATTAAC TTTTCAACA ACAACCAAA CTATACATCT AAGCAGCGAA TACGAACGAA TAACGAACGA ATAACGAACG AATAACGAAC [1300]

NnycCR1 ----- [1400]  
NnycCR2 GAATAACGAA CGAATAACGA ACGAATAACG AACGAATAAC GAACGAATAA CGAACGAATA ACGAACGAAT AACGAACAAA CAATGAACGA ATAACGAACA [1400]

NnycCR1 ----- [1500]  
NnycCR2 AACAATGAAC GAATAACGAA CAAACAATGA ACGAATAACG AACGAATAAC GAACGAATAA CGAACGAATA ACGAACGAAT AACGAACAAA CAATGAACGA [1500]

NnycCR1 ----- [1600]  
NnycCR2 ATAACGAACA AACAATGAAC GAATAACGAA CAAACAATGA ACGAATAACG AACAAACAAT GAACGAATAA CGAACAAACA ATGAACGAAT AACGAACGAA [1600]

NnycCR1 ----- [1700]  
NnycCR2 CAATGAACGA ATAACGAACA AACAATGAAC GAATAACGAA CAAACAATGA ACGAATAACG AACAAACAAT GAACGAATAA CGAACAAACA ATGAACGAAT [1700]

NnycCR1 ----- [1800]  
NnycCR2 AACGAACAAA CAATGAACGA ATAACGAACA AACAATGAAC GAATAACGAA CAAACCATGA ACGAATAACG AACAAACAAT GAACGAATAA CGAACAAACA [1800]

NnycCR1 ----- [1900]  
NnycCR2 ATGAACGAAT AACGAACAAA CAATGAACGA ATAACGAACA AACAATGAAC GAATAACGAA CAAACAATGA GCGAATAACG AACAAACAAT GAACGAATAA [1900]

NnycCR1 ----- [2000]  
NnycCR2 CGAACAAACA ATGAACGAAT AACGAACAAA CAATGAACGA ATAACGAACA AACAATGAAC GAATAACGAA CAAACAATGA ACGAATAACG AACAAACAAT [2000]

NnycCR1 ----- [2100]  
NnycCR2 GAGCGAATAA CGAACAAACA ATGGACGAAT AACGAACAAA CAATGAACGA ATAACGAACA AACAATGAAC GAATAACGAA CAAACAATGA ACGAATAACG [2100]

NnycCR1 ----- [2200]  
NnycCR2 AACAAACAAT GAACGAATAA CGAACAAACA ATGAACGAAT AACGAACAAA CAATGAGCGA ATAACGAACA AACAATGAAC GAATAACGAA CAAACAATGA [2200]

NnycCR1 ----- [2208]  
NnycCR2 ACGAATAA [2208]

**C stretch** **TAS**

BsteCR1 CCACTAAAAC CTTTAAAGCC ACCCTCACCC CCACAAATTT GCATT**CCCC** **CCCTACCC** **CCA**ATAAAT TGGGTTATTA **CATGTA**TGGG CATGCATTA [ 100]  
BsteCR2 ..... A. .... A. .... [ 100]

**TAS**

BsteCR1 **CTTATAT**GCC TCATTCTCA TTAAGAGTTA GTTGTGATT GATTTAGGAA TAGTTCGAGT ATTCATTTTA CCAAACTAT GAAGTGGTTA GGGTCTGTAT [ 200]  
BsteCR2 ..... T. .... C. .... [ 200]

BsteCR1 ATTCAAGTAA GTCTGGAATA CGGGTATGCC CGAACAAAG TGAGTGAATG GTGACAGGCC ATAATTACT ATTAATCCTT CTTGATGTGC CGGTTTCTAA [ 300]  
BsteCR2 ..... [ 300]



**E box** **D box**

If1aCR1 **ACTAGCTCA GGACCAT**TCA TTCCCCTAC ACCCTAGCCC AACTTGCCT TTTGCG**CCTC TGGTTCCTCG GTCAGGCCA** TGGCTCGTT GACTTAGCAC [ 600]  
If1aCR2 ..... [ 600]

**C box**

If1aCR1 TGGATGCTCT **TCACAGAGTC ATTTGGTTGA TGCTTGTCTG** CTCTCACCC GTGATCGCG CATCTGGATT GCCTGGGGCG CCTCTAGTAT TTTTTTATC [ 700]  
If1aCR2 ..... C..... [ 700]

If1aCR1 TTCACTTCT CACAGGTGGC CCTTCAGAGT GCACCGCGG GCGGCCATCG AAGACGTGAG CATAAGACG CGTTGCGTTC TTTTATTAGC CTTCAGGAAT [ 800]  
If1aCR2 ..... T..... [ 800]

**BSB** **B box**

If1aCR1 TACAGGATGA GACGGTTGGA GTATTTGTGG AATCATCTTT **ACACTGTGCA CTTTGTTC CATTGGTTG TTGGT**GTGTC CACTAACCCC AAACATGGTG [ 900]  
If1aCR2 ..... [ 900]

**CSB1**

If1aCR1 **CTATTTGATG AATGCTTGTG GGACATA**CTT TTA**CTCGTTT** CTA**CTCATT** AC**ACTTCCTC** TAGTTT**TTCT** AACAAACGAT AATCAA**ACTA** GGCAA**ATTTC** [1000]  
If1aCR2 ..... A..... [1000]

If1aCR1 AACAAAAAT TTTGACAAGT CTTATCAAAA ATTTTTACAA ACTTTATCA TTTGTATTAC ACTATCTTAT ACCACCTTAT AACCACTGGA ATTACATTA [1100]  
If1aCR2 ..... [1100]

If1aCR1 AAAATCAAAC CCTAAACAAC CTAAATTTTA ACCCGTGTTA TTTGTATGTT TATATTTTA TATTTT**TAC** CTCCACACC GCTGAAGTTA CATTAAAAA [1200]  
If1aCR2 ..... [1200]

If1aCR1 ATATGCACTA TCATGTTTAT ATCA----- [1300]  
If1aCR2 ..... CTACTA CATCTCCCA GCACAAACA GCAGCAACA AGCAGCAAC AAGCAGCAA CAAGCAGCA ACAAGCAGCA [1300]

If1aCR1 ----- [1400]  
If1aCR2 AACAAGCAGC AACAAGCAG CAAACAAGCA GCAAACAAG AGCAAACAAG TAATAACAA ACAAGTAATA AACAAACAAG TAATAACAA ACAAGTAATA [1400]

If1aCR1 ----- [1500]  
If1aCR2 AACAAGCAAG TAATAACAA ACAAGTAATA ACAAACAAG TAATAACAA ACAAGTAATA AACAAACAAG TAATAACAA ACAAGTAATA AACAAACAAG [1500]

If1aCR1 ----- [1600]  
If1aCR2 TAATAACAA ACAAGTAATA ACAAACAAG TAATAACAA ACAAGTAATA AACAAACAAG TAATAACAA ACAAGTAATA AACAAACAAG TAATAACAA [1600]

If1aCR1 ----- [1616]  
If1aCR2 ACAAGTAATA AACAAA [1616]

**C stretch** **TAS** **TAS**

IeurCR1 TCTTAAAAAC TATGTACGAT TACCATCCCC TCTAATCCAC TGGATACAGC **ACCCCCCTC TCCCCTCAA** ACAT**TATAT**GT CTAGGTAAGT TCT**ATGTATA** [ 100]  
IeurCR2 ..... C..... G [ 100]

**TAS** **TAS** **TAS**

IeurCR1 ACCATGCATT AACTCTTATG TCTTG**TACA** **TTACAGTCAA** TGTTTGGTA ACATGTTAA**A TGTA**TGTTT AGGTCTGTTT AAGTTTACTA ATAAGGAATA [ 200]  
IeurCR2 ..... **TAC**... C.. CAT.... ---T.. ... GA. TC. GA. AT... G ..... AAA... --. ... A. TT.. T.. T. AC.. G [ 200]

**TAS** **TAS**

IeurCR1 -GGTTGATT **TACATACTAT** CTTGTTAAG TATAAGTTAG TGTACTGAAT TAAGGATGAT TTAACACTTG TTA**ACTATA** AACCA**AACT** TTTATG**GATT** [ 300]  
IeurCR2 T.... AG.. **GTTG**. AT. **TA. A**..... [ 300]

IeurCR1 GTACATGAAT TATGGGGTCG GTGATGACT ATGTTTGGGT CAAGGTAAT GAATGGTGAC AGGCATAAT AATCCAATAA TCITTTTAGA AGTACCGTT [ 400]  
IeurCR2 ..... [ 400]

**F box** **E box**

IeurCR1 TCTGAAGTGT TGGGTTATTT ATTAATCGTT **CTTCTCAGT GAAATCAGCA ACCCG**GTGA CGTAAGATT **TACGTTACTA GCTTCAGGAC** CATT**CATTCC** [ 500]  
IeurCR2 ..... [ 500]

**D box** **C box**

IeurCR1 CCCTACACCC TAGCCCAACT TGCCTTTTG CG**CCTCTGTT** **TCCTCGTCA AGGCCATAGC** TCGGTTTATT TAGCACTTAG **TTCTCTCAC AGAGTCATT** [ 600]  
IeurCR2 ..... G..... [ 600]

IeurCR1 **GTTGATGCT** TGTCTGCTTC TCACCCGTGA TCGCGGCATC TGGATTGCC GAAGTGCTT TAGTAATTTT TTCTTTCTTC ACTTCTTCAC AGGTGGCCT [ 700]  
IeurCR2 ..... [ 700]

IeurCR1 TCAGAGTGGG CCGCGGTGCA GCCATCGAAG ACGTGAGCAT ACAGACCGT TCGTCTCTAT TATTAGCTTT CAAGAATCAC TGGATGAGAC GGTGGAAGTA [ 800]  
IeurCR2 ..... [ 800]

**BSB** **B box** **CSB1**

IeurCR1 TTTGTGGAAT CATCTT**TACC CTGTGCACTT** TGTT**TTCCAT TCGGTTGTTG** GTGTGACCAC TAACCTAAA CATGGTGCTA **TTTGGTGAAT GATTGCCGGA** [ 900]  
IeurCR2 ..... [ 900]

IeurCR1 **CATA**ATTTTA CTTAATTTTA CCCATTACA CTTCTCTAA CTTCTCTACA AAAAAATTT AA**ACTTAGT** AA**TTTCAAC** AAAAAATTT AACACACTCA [1000]  
IeurCR2 ..... [1000]

IeurCR1 AAAAAATTT TTACAACTT TATTCCTTG TATTACACTA TCCTCTAACC ACTAAAATCC CATTA**AAAAA** TCAA**ACTCCA** AGTA**ACCCA** TTTTTAACC [1100]  
IeurCR2 ..... [1100]

IeurCR1 CATATTTATT TGTATGCTTA TATTTT**TTTA** CCTTCCACAC CACTGAAGTT ACATTA**AAAAA** ATATATACCT TT**CTACTGCT** TATGCCATAA CC----- [1200]  
IeurCR2 ..... .. CCACACAA [1200]

IeurCR1 ----- [1300]  
IeurCR2 ACGAACACCA AACACAAACG AACACCAAAC ACAACGAAC ACCAAACACA AACGAACACC AAACACAAAC GAACACCAAA CACAAACGAA CACCAAACAC [1300]

IeurCR1 ----- [1400]  
IeurCR2 AAACGAACAC CAAACACAAA CGAACACCAA ACACAAATTA GCAACAAACA CAAATTAGCA ACAAACACAA ATTAGCAAAA CACAAATTAG CAAACACAAA [1400]

IeurCR1 ----- [1500]  
IeurCR2 ATTAGCAAAA CACAAATTAG CAACAAACAC AAATTAGCAA CAAACACAAA TTAGCAACAA ACACAAATTA GCAACAAACA CAAATTAGCA ACAAACACAA [1500]

IeurCR1 ----- [1600]  
IeurCR2 ATTAGCAACA AACACAAATT AGCAACAAAC ACAAAATTAG AACAAACACA AATTAGCAAC AAACACAAAT TAGCAACAAA CACAAATTAG CAACAAACAC [1600]

IeurCR1 ----- [1700]  
IeurCR2 AAATTAGCAA CAAACACAAA TTAGCAACAA ACACAAATTA GCAACAAACA CAAATTAGCA ACAAACACAA ATTAACAACA AACACAAATT AGCAACAAAC [1700]

IeurCR1 ----- [1800]  
IeurCR2 ACAAAATTAAC AACAAACACA AATTAGCAAC AAACACAAAT TAACAACAAA CACAAATTAG CAACAAACAC AAATTAGCAA CAAACACAAA TTAACAACAA [1800]

IeurCR1 ----- [1857]  
IeurCR2 ACACAAATTA GCAACAAACA CAAATTAACA ACAACACAAA ATTAACAAAA CACAAAT [1857]

IstinCR1 CCTAAAAAC TATAAACCC CCCAGCACA GACATATAAC CTTAAGCCTA **C stretch** **TAS** **TAS** [ 100]  
IstinCR2 ..... CCCCCCTAC CCCCCAGAA CGTATATGTT CTAGGTAAGT TCTATGTA TG [ 100]

IstinCR1 **TAS** **TAS**  
IstinCR1 GTCATGCATT AATT**TATATG** CCCCAT**TACA** TTAAGTTAAT GTTAGATAGC CTATT-AAAT GAATGTGTTG AGTCCATTTA ACTTATAGGT TTAGGATAAT [ 200]  
IstinCR2 .CT..... GG..... G.. .C. TA.... .C. . AG. T. T AC... T. . G. . T... AC. A G. A. T. GG-- ---... AT. .. CAT. . GGC [ 200]

IstinCR1 CTCAGTTATT TACCACGTGT TTGTTTCTAG GGATTAACCT TGTAATGAGT CTAGGAATAG CTTCACTTAC TGTACTAAAA CCATAGTAAT GCTGGTAATG [ 300]  
IstinCR2 A. A. C... A . TTA... CA. ACA. CCT... A. .... [ 300]

IstinCR1 TATAAGGTAT GGGGTCGGTG TATGACTATG CTTGGAACCA AGATAACTGA ATGGTAACAG GTCATGATAG TTCTTCTACT TCTTGTAGTA CCGGTATCTG [ 400]  
IstinCR2 ..... [ 400]

IstinCR1 AAGTACCAGG TGATTTATTA GTCG**TTCTCC** **F box** **E box**  
IstinCR1 AAGTACCAGG TGATTTATTA GTCG**TTCTCC** **TCACGTGAAA** **TCAGCAACCC** GGTGCACATA AGGTTT**TACG** **TTACTAGCTT** **CAGGACCATT** CTTTCCCCT [ 500]  
IstinCR2 ..... **C.** [ 500]

IstinCR1 ACACCCTAGC ACAACTTGGC CTTTGGCGCC **D box** **C box**  
IstinCR1 ACACCCTAGC ACAACTTGGC CTTTGGCGCC **TCTGTTCTCT** **CGGTCAGGGC** **CATAGCTCGG** TTTACTTAGC ACTTA**ATGCT** **CTTCACAGAG** **TCATTTGGTT** [ 600]  
IstinCR2 ..... [ 600]

IstinCR1 **GATG**CCTTGC TGCTTCTCAC CCGTGATCGG GGCATCTGGA TTGCCTGGGG CGCCTTAGT ATTTTTTCT TCTTCACTTC TTCACAGGTG GCCCTCAGA [ 700]  
IstinCR2 ..... C ..... G.... [ 700]

IstinCR1 GTGACCCGCG GCGCAGCCAT CGAAGACGTG AGCATA CAGA CGCGTTGCGT CCTATTATTA GCTTCAAGA ATCACTGGAT GAGACGGTTG AAGTATTTGT [ 800]  
IstinCR2 ..... [ 800]

IstinCR1 **BSB** **B box** **CSB1**  
IstinCR1 GGAATCATCT TT**ACCGTGTG** **CAC**TTT**GT**TT **TCCATTTGGT** **TGTTGGTGTG** ACCACTAACT CTAACATGG TG**CTATTGG** **TGAATGTTG** **CTGGACATAA** [ 900]  
IstinCR2 ..... G.... [ 900]

IstinCR1 TTTTACTTAC TTTCACTCAT TTTCAATTCC TCTATTTCT TAACAACTT TCACAACTT AGGAAAAATT TAACCAAAAA TTAAACAAGC TTCATTAATA [1000]  
IstinCR2 ..... A. .... [1000]

IstinCR1 **2 x 92 bp + 1 incomplete repeat (78 bp)**  
IstinCR1 ATTTTACAA **ACTTTGTTA** **CTATATTAC** **ACTATCTTA** **ACCACTGAAA** **TTTCATTA** **ATCAACCTT** **AGTTAACACA** **AACTTTTATC** **AAAAATTTT** [1100]  
IstinCR2 ..... [1100]

IstinCR1 **AAACTTTGTT** **TACTTATATT** **ACACTATCTT** **TAACCACTGA** **AATTTTATTA** **AAATCAAACC** **TTAGTTAACA** **CAAAC**TTT**TA** **TCAAAAATTT** **TTAAACTTTG** [1200]  
IstinCR2 ..... [1200]

IstinCR1 **TTTACTTATA** **TTACACTATC** **TTAACCCTT** **GAAATTTTCA** **TAAAAATCAA** **CCTTAGTTAA** **CACAAACTTT** ATCCGIGTTA TTTGTAIGTT GTATATTCGT [1300]  
IstinCR2 ..... [1300]

IstinCR1 ATATTTTATA CCCTTCAAAC CGGTGGAGTT ACATTGAAAA AATATA----- [1400]  
IstinCR2 ..... A.... TGCC ATCATATGGT CATCACAACCT CATTACGCCA AATAAGCAAC AAACACAAAT [1400]

IstinCR1 ----- [1500]  
IstinCR2 AAGCAACAAA CACAAATAAG CAACAAACAC AAATAAGCAA CAAACACAAA TAAGCAACAA ACACAAATAA GCAACAAACA CAAATAAGCA ACAACACAAA [1500]

IstinCR1 ----- [1600]  
IstinCR2 ATAAGCAACA AACACAAATA AGCAACAAAC ACAATAAGC AACAAACACA AATAAGCAAC AAACACAAAT AAGCAACAAA CACAAATAAG CAACAAACAC [1600]

IstinCR1 ----- [1666]  
IstinCR2 AAATAAGCAA CAAACACAAA TAAGCAACAA ACACAAATAA GCAACAAACA CAAATAAGCA ACAAAC [1666]

C stretch

IcinCR1 ----- ACCCCCC CCTACCCCC [ 100]  
IcinCR2 TTTCAAACCT TCCCCAAAA ATCATGTACA ACTACCATT CTTAATCCCC TAGACATAAT ACTCAATCCC CCAATCTACT CGC. -..... T..... [ 100]

TAS TAS TAS TAS TAS

IcinCR1 CAAACA**TATA** TGTCTGGGTA AATTTT**ATGT** ATGACCATGC ATTA**ACTTAT** ATGCCTCATT **ACAT**TGCAGT TAATGTTGAG TAGCATATTA **AAT-GTAT**GT [ 200]  
IcinCR2 -..... A... .TCA... .G..AC... ..AG.T... ..T...C..... -...AT.-. ....A.A .CATGGG..T ...T..... [ 200]

IcinCR1 GTTAGTCTA TTTGAATTTA TAGATAAGGA TTAAGTTTGG TTTGTTTACT ATTTTGTTTA AGTATATTAT CATGTATTAA ACCAGGAATA GTTCTTTTAA [ 300]  
IcinCR2 AC...A... .GGA.G..CT .---.T.AT A..TAA..T. .AA..C.T. ---..... C..G..A... AT.....G. ..T.AC... AC...AC.C. [ 300]

IcinCR1 GTTAGTACTA AAACCATAAG ATTCATGGGG TGTACATACT TTATGGGGTC AGTATACGGC TATGTTTTGG TTAAGGTATC TGAATGGTAA CAAGCCATGA [ 400]  
IcinCR2 -C..A..... ..... A..... .....A. [ 400]

F box

IcinCR1 TAATTCAATT ATCTCTTGAA GTACCGGTGT CTGAAGTGT AGGTTATTTA TTAATCG**TTC** **TTCTCACGTG** **AAATCAGCAA** **CCCGGTGTAC** GTAATGTTTT [ 500]  
IcinCR2 ..... [ 500]

E box D box

IcinCR1 **ACGTTACTAG** **CTTCAGGACC** **ATTCATTCCC** CCTACACCCT AGCCCAACT GCGTTTTGC **GCTCTGGTT** **CCTCGGTGAG** **GGCCATGGCT** CGGTTTACTT [ 600]  
IcinCR2 ..... [ 600]

C box

IcinCR1 AGCACTCGGT **CCTCTTACA** **GAGTCATTG** **GTTGATG**CTT GTCTGCTTCT CACCCGTGAT CGCGCATCT GATTGCCCA AGTGCCTCTA GTAATTTTTT [ 700]  
IcinCR2 ..... [ 700]

IcinCR1 TTTCTTACT TCTTACAGG TGGCCCTCA GAGTGCACCG CGGTGCAGCC ATCGAAGACG TGAGCATACA GACGCGTTGC GTCCTATTAT TAGCTTTCAA [ 800]  
IcinCR2 ..... [ 800]

BSB B box

IcinCR1 GAATCACTGG ATGAGACGGT TGAAGTATTT GGGGAATCAT CTTT**ACCCTG** **TGCACTTTGT** **TTCCATTG** **GTTGTGGT**GG GACCGCTAAC CCTAAACATG [ 900]  
IcinCR2 .....G..... .C..... [ 900]

CSB1

IcinCR1 GTGC**TATTTG** **GTGAATGTTT** **GCCGGACATA** ATTTCACTTA CTTTACCCTA TTTACTTTC CTCTA**ACTTT** TCTAACAAAC TATTTTTAAA CTAGGTAAAT [1000]  
IcinCR2 ..... [1000]

IcinCR1 TTCAACAAAA AATTTAACAA ACCTTAACAA AAATTTTAC AA**ACTTTGTT** AATTTGTATT ACACTACTCC ATAACCAGCA GGATCCCAT AAAAAACAAA [1100]  
IcinCR2 .....A..... [1100]

IcinCR1 CCCTTTAACA ACCTAATTTT TTTTAGCCCA TATCTATTG TATGCTTATA TTTTCATAT ACTACACCAC TGGAGTTACA TTA**AAAAAAT** ACTGATCATC [1200]  
IcinCR2 .....A..... [1200]

IcinCR1 GAGCGTACAC CATAACTC----- [1300]  
IcinCR2 .....CA CACAACACCA TAACTTCACA CCAAATAAGC AATAAACACA AATAAGCAAT AAACACAAAT AAGCAATAAA CACAATAAG [1300]

IcinCR1 ----- [1400]  
IcinCR2 CAATAAACAC AAATAAGCAA TAAACACAAA TAAGCAATAA ACACAAATAA GCAATAAACA CAAATAAGCA ATAAACACAA ATAAGCAATA AACACAAATA [1400]

IcinCR1 ----- [1500]  
IcinCR2 AGCAATAAAC ACAATAAGC AATAAACACA AATAAGCAAT AAACACAAAT AAGCAATAAA CACAATAAG CAATAAACAC AAATAAGCAA TAAATACAAA [1500]

IcinCR1 ----- [1600]  
IcinCR2 TAAGCAATAA ACACAAATAA GCAATAAACA CAAATAAGCA ATAAACACAA ATAAGCAATA AACACAAATA AGCAATAAAC ACAATAAGC AATAAACACA [1600]

IcinCR1 ----- [1670]  
IcinCR2 AATAAGCAAT AAACACAAAT AAGCAATAAA CACAATAAG CAATAAACAC AAATAAGCAA TAAACACAAT [1670]

C stretch TAS

AcinCR1 ACCCACTAAC AGCATCACAG TGGCCCTATA CATGGA**CCCC** **CCCC-TCCC** **CCCC**ATACG CATATGCTCA GGCAGTTCGT **ATGTA**TGGGC ATGCATTGGT [ 100]  
AcinCR2 ..... .T...TA. G.A.G.ATTA GCA...AC [ 100]

TAS TAS TAS

AcinCR1 **CTATAT**GCCC CATGCATTGT ATCAATGTTA GAGAATGCAG **TTATATGCAT** **GTA**CTAGTTC CATGCTATGT CTT---CAGT ACAAGTCTT GATTGTCCAC [ 200]  
AcinCR2 .....**CATT**. T.C.TG.CAA GCT..... A.TC.CA..T .A..C..T.. ....G..G.. ...AAA...C T.GATAT.A. .TTTA.... A..C.G...T [ 200]

IcinCR1 CTGTCTTATC TTAGAGGATT AATCTTGTAT TGAGCTTAGG AATGGCTTCA TAATCTGTAC TAAAACCATA TACAGTAATG GGCCTACAT G**TA**CTATGGG [ 300]  
AcinCR2 AA..-...- .C..... .T..... [ 300]

IcinCR1 GTCAAGTGTA CGGCTGTGCT TGAATTCAGT TGATTGAATG GTGACAGGTC ATGGTAGTTC AATAGTCTCT TGGGGTCCG GTATCTGAAG TACCAGGTTA [ 400]  
AcinCR2 .....A..... [ 400]

F box E box

AcinCR1 TTTATTGGTC **GTTCTTCTCA** **CGTGAAATCA** **GCAACCCGCC** GCATAGAAGG CTCTAC**GTTA** **CTAGCTT**CAG **GACCAT**TCTT TCCCCTACA CCCTAGCGCG [ 500]  
AcinCR2 ..... [ 500]

D box C box

AcinCR1 ACTTGCTCTT TTGCG**CCTCT** **GGTCTCTCGG** **TCAGGGCCAT** GGCTCGGTTG ACTTAGCACT **CGGTCTCTT** **CACAGAGTCA** **TTGGTTGAT** GCTTGCTGCG [ 600]  
AcinCR2 ..... [ 600]

AcinCR1 TTCTACCCG TGATCGCGGC ATCTGGATTG CCTGGGGCGC CTCTAGTATT TTTCTTCTCT AA**ACTTCTTC** AGGCTGCCT CCGGTGCACC GCGGCGCAGC [ 700]  
AcinCR2 ..... [ 700]



ApurCR1 ----- [1543]  
ApurCR2 AAACAATAAA CAAACAATAA ACAAACAATA AACAACGAAA TAA [1543]

AintCR1 ----- **C stretch** **TAS** **TAS** **TAS** [ 100]  
AintCR2 ACATCTACAC GACCCCTACT **TTCC.C...** **....A....** **...A.-...** **.....C.A** **.....C.** **.....AA.TG** **.A...CCCAC** TCAT.A...A [ 100]

AintCR1 **TAS** **TAS** **TAS** [ 200]  
AintCR2 ATAT-GCCCC **ATGTATTGCG** TAATGTTAGA TTATACAATT **ATATGCATGT** ACTATCTTCA TATCGTATTT TGAGTACAA- ---GTTCTT AACTGTATAC [ 200]  
AintCR2 G.G.TAAA. **T.CA...** TA. .T..A.G.- C.GC.T.T. .ACC.T... ..G.GG.C. -.AA..G. CT...T..T ATTCA..... ..TC.ACC.- [ 200]

AintCR1 CTGTCTTATC TTAGGGGATT AATCCTGTAC TGAGTTTAGG AATAGCTCCA TAATCTGTAC TAAAACCATA AGTAACAGTG GGTTGTACAT AAGCTATGGA [ 300]  
AintCR2 -.AGA...-. .C..... [ 300]

AintCR1 TTAAGCGTAT GGCTGTGCTT GAATTCAGTT GTCTGAATGG TGACAGGTCA TGCTAGTTCA ATTATCTCTC GAAGTACCGG TATCTGAAGT ACCAGGTTAT [ 400]  
AintCR2 ..... [ 400]

AintCR1 **F box** **E box** [ 500]  
AintCR1 TTATTGGTCG **TTCTTCTCAC** **GTGAAATCAG** **CAACCCGCCG** CATATAAGGC TCTAC**CGTTAC** **TAGCTTCAGG** **ACCATTCATT** CCCCTACAC CCTAGCCCAA [ 500]  
AintCR2 ..... [ 500]

AintCR1 **D box** **C box** [ 600]  
AintCR1 CTTGCGCTTT TGCG**CCTCTG** **GTTCTCTGGT** **CAGGGCCATG** GCTCGGTTGA CTTAGCACTT **AGTGCCTCTC** **ACAGAGTCAT** **TTGGTTGATG** CTTGTCTGCT [ 600]  
AintCR2 ..... [ 600]

AintCR1 TCTCACCCGT GATCGCGGCA TCTGGATTGC CTGGGGCGCC TCTAGTATTT TTTTCTTCTA AACTCCTTCA GGCTGCCCTC CGGTGCACCG CGGCGCAGCC [ 700]  
AintCR2 ..... T..... [ 700]

AintCR1 ATCGAAGACG TGAGCATACA GACGCGTCA CGGACTCTTA TTAGCGCTCA GGAGTGACTG GATGAGACGG TTGGAGTATT TGGGGAATCA TCTTTA**CACT** [ 800]  
AintCR2 ..... .T..... [ 800]

AintCR1 **BSB** **B box** **CSB1** [ 900]  
AintCR1 **GTGCACCTTG** **TTTTCCACTT** **GGTTGTGGT** GTGTCCACTA ACCCCTAAAT ATGCTGCTAT **TTGTTGAATG** **CTTGTGGAC** **ATAATTTTAT** CTCTATTCTT [ 900]  
AintCR2 ..... T..... [ 900]

AintCR1 CTTATTTACA CTCTCTCTAA TTTTCTTCTA TTTTCTAAAC TAATCTAGGG AACTTTCAAC TAAAAATTTA ACGAACTTTA TCAAAAATTT TTCACAAATC [1000]  
AintCR2 ..... [1000]

AintCR1 TTATTCTTAA ATCTTACATC ACCTTTAACC ACTGGAGTTA CATTAAAAAA CATAACCCTAA ACAACGAAAC TTTTTTCGGT GTGTTATTAT ATATTTACAC [1100]  
AintCR2 ..... [1100]

AintCR1 ATAATTATTA CCCTCCACAC TGCTGAAGTT ACATTAAAAA AAACAAGCAT TATTTATGCT TTGCATAACT AAATTTCTTA TC----- [1200]  
AintCR2 ..... TATTACAT CAAACAGCAC [1200]

AintCR1 ----- [1300]  
AintCR2 TAAAAATTTCA AACAAACAAC AAACAACAAC CGATAACAAA CAACAACGTA TAACAAACTA CAAACGATAA CAAACAACAA ACGATAACAA ACAACAACAG [1300]

AintCR1 ----- [1400]  
AintCR2 ATAACAACA ACAACGATA ACAAACAACA AACAACAAC GATAACAAC AACAAACGAT AACAAACAAC AAACGATAAC AAACAACAACA CAACAACGTA [1400]

AintCR1 ----- [1445]  
AintCR2 TAACAACAACA CAAACGATAA CAAACACCAT AAAACACTTA ACACT [1445]

AmodCR1 ACCCCCCAGC ACCCCATAAT AGGAC**CCCCC** **CCCTTCCCCC** **CCGTACGCAG** ACATGCTCAG GCAAGTTCTA **TGTACGGCCA** TGCATTGGTC **TATATGCCCC** [ 100]  
AmodCR2 .-...A...G ..... **..-.....** **..A..AAT.C** **....A....** **.....A.** **....T.ATT.** **.A...** ----- TT [ 100]

AmodCR1 **TAS** **TAS** **TAS** [ 200]  
AmodCR1 ATGATTGCG TTAATGCTAG ATAATACAAT **TATATGCATG** TACTAGTTTC ATAGTATGTT TTAAGTATAA GTTTTAATT GTATACC-TG TCTTATCTTA [ 200]  
AmodCR2 G.A.-...-. **..A..A** **....C.T.T.** **..CC..T...** **...G..G.C.** **..TAA...C.** **.G.TA..AT.** **A..A..CT.A** **A.CGG..A.A** **AG...T.C.** [ 200]

AmodCR1 GAGGATTAAT CTTGTATTGA GTTTAGGAAT AGCTTCATAA CCTGTACTAA AACCATATAT AATGGTGGT TGTACATAAG CTCTGGATAC TGGATACGGC [ 300]  
AmodCR2 ..... [ 300]

AmodCR1 TGTGCTTGA TTCAGTTGAT TGAATGGTGG CAGGCCATGC TAGTCAACT ATCTCTTGA GTGCCGTTT CTGAAGTATC AGGTGATTTA TTAGTC**GTTT** [ 400]  
AmodCR2 .....C..... [ 400]

AmodCR1 **F box** **E box** [ 500]  
AmodCR1 **CTCTCACGTG** **AAATCAGCAA** **CCCGCCGCAT** ATAAGGCTCT **ACGTTACTAG** **CTTCAGGACC** **ATTCTTTCCC** CCTACACCCT AGCACAACCT GCGCTTTTGC [ 500]  
AmodCR2 ..... [ 500]

AmodCR1 **D box** **C box** [ 600]  
AmodCR1 **GCCTCTGGTT** **CTTCGGTCAG** **GGCCATAGCT** CGGTGGATTT AGCACTCGGT **CCTCTTCACA** **GAGTCATTTG** **GTTGATGCTT** GTCTGCTTCT CACCCGTGAT [ 600]  
AmodCR2 ..... [ 600]

AmodCR1 CGCGGCATCT GGATTGCTG GGGCGCTCT AGTATTTTT TCTTCTAAAC TTCTTCAGGC TGCCCTCCGG TGACCCGGC CGTGGCCATC GAAGACGTGA [ 700]  
AmodCR2 ..... [ 700]

BSB

AmodCR1 GCATACAGAC GCGTCATCGG TCTCTTATAG CGCTGGGTAC AACTGGATGA GACGGTTGGA GTATTGGGG AATCATTITT **ACACTGTGCA CTTTGTTC** [ 800]  
AmodCR2 ..... [ 800]

**B box** **CSB1**

AmodCR1 **CATTGGTTG** **TTGGTGTGTC** CACTAACCTT TAGATATGTT **GTATTGGTT** **GAATGCTTG** **TAGACATAAT** TTTATCTCTA TTCTCTTAT TTACTTCC [ 900]  
AmodCR2 ..... [ 900]

AmodCR1 TCTAATTTTC TTTAACTTTC TAAATCAAAC CAGGTAACCT TCAACTAAAA ATTTAACAAA CCTTGACAAA AATTTTTCAC AAATCTTATT CTTATATTTT [1000]  
AmodCR2 ..... T..... T..... [1000]

**3 x 91 bp + 1 incomplete repeat (21 bp)**

AmodCR1 ACATTACCTT TAACCGCTAA **AGTTACATTA** **AAAAATATAC** **CCTAAACAAC** **GTAACCTTTT** **TCGGTGTGTT** **ATTATATATT** **TACACATAAT** **TATTACCCTC** [1100]  
AmodCR2 ..... **G.....C.....** [1100]

AmodCR1 **CACACCACTA** **AAGTTACATT** **AAAAAATATA** **CCCTAAACAA** **CGTAACTTTT** **TTGGTGTGTT** **TATTATATAT** **TTACACATAA** **TTATTACCCT** **CCACACCACT** [1200]  
AmodCR2 ..... **G.....** [1200]

AmodCR1 **AAAGTTACAT** **TAAAAAATAT** **ACCCTAAACA** **ACGTAACCTT** **TTTCGGTGTG** **TTATTATATA** **TTTACACGTA** **ATTATTACCC** **TCCACACCGC** **TAGAGTTACA** [1300]  
AmodCR2 ..... **A.....** [1300]

AmodCR1 **TTAAAAAATA** CAAACATTAT TATGCTTTAC GTAGCTAAAT TTCATGCC----- [1400]  
AmodCR2 ..... TC TTGTACAAA CAGCACTAAA ATTTCAAACA AACAAACGAAT GATCAACGAA [1400]

AmodCR1 ----- [1500]  
AmodCR2 CAATCAACGA ATCTGAACGA AACAAACAAA TGAACGATAA CAAACAAACA AATGAACGAT AACAAACAAA CAAATGAACG ATAACAAACA AACAAATGAA [1500]

AmodCR1 ----- [1600]  
AmodCR2 CGATAACAAA CAAACAAATG AACGATAACA AACAAACAAA TGAACGATAA CAAACAAACA AATGAACGAT AACAAACAAA CAAATGAACG ATAACAAACA [1600]

AmodCR1 ----- [1700]  
AmodCR2 AACAAATGAA CGATAACAAA CAAACAAATG AACGATAACA AACAAACAAA TGAACGATAA CAAACAAACA AATGAACGAT AACAAACAAA CAAATGAACG [1700]

AmodCR1 ----- [1800]  
AmodCR2 ATAACAAACA AACAAATGAA CGATAACAAA CAAACAAATG AACGATAACA AACAAACAAA TGAACGATAA CAAACAAACA AATGAACGAT AACAAACAAA [1800]

AmodCR1 ----- [1900]  
AmodCR2 CAAATGAACG ATAACAAACA AACAAATGAA CGATAACAAA CAAACAAATG AACGATAACA AACAAACAAA TGAACGATAA CAAACAAACA AATGAACGAT [1900]

AmodCR1 ----- [2000]  
AmodCR2 AACAAACAAA CAAATGAACG ATAACAAACA AACAAATGAA CGATAACAAA CAAACAAATG AACGATAACA AACAAACAAA TGAACGATAA CAAACAAACA [2000]

AmodCR1 ----- [2052]  
AmodCR2 AATGAACGAT AACAAACAAA CAAATGAACG ATAACAAACA AATCTAAACA CT [2052]

**C stretch** **TAS** **TAS**

AibiCR1 -----AT AGAA**CCCCC** **CCCCT-CCCC** **CCC**ATACACA CATGCTCAGG CAAGTTGTAT **GTATGGCCAT** GCATTGGTCT **A-TATGCCCC** [ 100]  
AibiCR2 ACCCCACATGA ACCCCCAT.. .G..... **-T.C....** ..... A... .. AA. T. - .. AA. TG .A.. CA. T.. [ 100]

**TAS**

AibiCR1 ATGATTGTA TTAATGTTAG ATAATACAGT **TATATGTATG** TACTAATTC ATGTTATGTG CTG---AGTA CAAGTTTTTG ATTGTCCACC CGTCTTATCT [ 200]  
AibiCR2 .. A . C . AAG . C . T . AC . A . CT . C . . T . . . T . A . . . . G . GG . . . AAG . . . T TAATAT . A . T . TA . C . A . . C . G . . TA GA . TA . --- . [ 200]

AibiCR1 TAGAGGATTA ATTCTGTACT GAGTTTAGGA ATAGCTCCGT AATCTGTACT AAAACCATAT TTAGCAGTGG ACTGTACATA AGCTATGGAT TAAGCGTATG [ 300]  
AibiCR2 C..... [ 300]

AibiCR1 GCTGTGCTTA AGTTCAGTTG ATTGTAATGG TGACAGGCCA TGCTAGTTCA ATTGTCTCTT GAAGTACCGG TATCTGAAGT ACCAGGTTAT TTATTAGTCG [ 400]  
AibiCR2 ..... [ 400]

**F box** **E box**

AibiCR1 **TTCTCTCAC** **GTGAAATCAG** **CAACCCGCG** CATATAAGGC TCTACGTTAC **TAGCTTCAGG** **ACCAT**TCTTT CCCCTACAC CCTAGCACAA CTTGCTCTTT [ 500]  
AibiCR2 ..... **G.....** [ 500]

**D box** **C box**

AibiCR1 TGCGCCTCTG **TTCTCTCGGT** **CAGGGCCATG** GCTCGGTTGA CTTAGCACTT **GGTCTCTTC** **ACAGAGTCAT** **TTGGTTGATG** CTTGCTGCT TCTCACCCGT [ 600]  
AibiCR2 ..... **G.....** [ 600]

AibiCR1 GATCGCGGCA TCTGGATTGC CTGGGCGGCC TCTAGTATTT TTCTCTTCTA AACTTCTTCA GGCAGCCCTC CGGTGCACCG CGGCGCAGCC ATCGAAGACG [ 700]  
AibiCR2 ..... [ 700]

**BSB**

AibiCR1 TGAGCATACA GACGCGTCAT CGGCCCTCTA TTAGCACTCA GGAATGACTG GATGAGACGG TTGGAGTATT TGGGGAATCA TTTT**TACACT** **GTGCACTTTG** [ 800]  
AibiCR2 ..... [ 800]

**B box** **CSB1**

AibiCR1 **TTTCCATT** **GGTGTGGT** GTGTCCAATA ACCCTAAAT ATGCTGCTAT **TTGTGAATG** **CTTGTGGAC** **ATG**ATTTTAT CTCTATTTA CTTATTTACA [ 900]  
AibiCR2 ..... [ 900]

AibiCR1 CTTCTCTAA TTTCTTTCA CTTTATAAAT TAAACTAGGT AACTTTCATC TAAAAATTTA ACAAGCCTTA TCAAAAATTT TTCACAAATC TTATTCTTGT [1000]  
AibiCR2 ..... [1000]

4 x 93 bp + 1 incomplete repeat (12 bp) in CR1

AibiCR1 ATTTTACATT ACCTTAAACC ACTGAAATTA CATTAAAAAA CATACCCTAA CACAGGGTAA CTTTCTTAG TGTGTATTG TATATTACA CGTAATTATT [1100]  
AibiCR2 ..... [1100]

3 x 93 bp + 1 incomplete repeat (12 bp) in CR2

AibiCR1 ACCCTTAAAT ACCACTAGAA TTACATTA AAACATACCC TAACACAGGG TAACTTTTCT TAGTGTGTTA TTGTATATT ACACGTAATT ATTACCCTT [1200]  
AibiCR2 ..... [1200]

AibiCR1 AATACCACTA GAATTACATT AAAAAACATA CCCTAACACA GGGTAACTTT TCTTAGTGTG TTATTGTATA TTTACACGTA ATTATTACCC TTTAATACCA [1300]  
AibiCR2 ..... [1300]

AibiCR1 CTAGAATTAC ATTA AAAAAC ATACCCTAAC ACAGGGTAAC TTTTCTTAGT GTGTTATTGT ATATTTACAC GTAATTATTA CCCTTAAATA CCACTAGAAT [1400]  
AibiCR2 .... [1400]

AibiCR1 TACATTAAAT AAAACAACA TTATTATGCT TCACGTAAC AATTTC----- [1500]  
AibiCR2 ..... ..A...CATA TCCCCTTAC ACTAAACAGC ACTAAATCT CAAGTAAACA ACAACAACA [1500]

AibiCR1 ----- [1600]  
AibiCR2 AACAAACAAC AAACAACA CAAACAACA ACAACAACA AACACAAC AACAAACAA CAACAACA ACAACAACA ACAACAAC AACAAACAA [1600]

AibiCR1 ----- [1700]  
AibiCR2 CAACAACA ACAACAACA ACAACAACA AACACAAC AACACAACA CAAACAACA ACAACAAC AACACAACA AACACAACA CAAACAACA [1700]

AibiCR1 ----- [1773]  
AibiCR2 ACAACAACA AACACAACA CAAACAACA AACACAACA AACACAACA AACGATCAC ACT [1773]