

Table S5

**EXAMPLES OF COMPLETE TANDEM REPEAT SEQUENCES IN FIVE GENOMES***B.coagulans**B.alkalitelluris**B.mesonae**B.cellulosilyticus**B.weihaensis**B.coagulans*. NCBI code: NZ\_CP026649.1.

All tandem repeats with repeat 52

The CG sequence is highlighted to demonstrate the irregular sequence of each repeat, while its size is constant with a very few exceptions. There are two types of tandem repeats, with characteristic signals either **TCTAYG** or **AARGACA** (or reverse). In practically all cases the direct and reverse sequence are present in the same repeat, which may indicate that they form an RNA hairpin. There is only one exception, a short tandem repeat at position 2867866.

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> TTAAGGAAGC Con:1 reps=11 [16146,16780] l-int=635 l-seq = 52
TTAAGGAAGCGTGGAAAAAAGAAGGCCTTTCTTTACATAGAGCCCCCTCTATG
TTAAGGAAGCAACAAAAAGAAGGTCTTCCTTCAATAGAGTGTGTCTACG
TTAAGGAAGCGCGAAAAAAGAAGGTCTTTCTTTACCTAGAGCGCGTCTACG
TTAAGGAAGCAACAAAAAGAAGATCTTCCTTCACTTAGAGCGCATCTACG
TTAAGGAAGCGCGAAAAAAGGCGGTCTTTCTTTACCTAGAGCGCGTCTACG
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TTAAGGAAGCGCGAAAAAAGGCGGTCTTTCTTTACCTAGAGCGCGTCTACG
TTAAGGAAGCAAGCAAAAAACAAGGTCTTCCTTAACATAGGGCGCATCTACA
TTAAGGAAGCGCGAAAAAAGGCGGTCTTTCTTTACCTAGAGCGCGTCTATG
TTAAGGAATCAACAAAAACAAGGTCTTCCTTAACATAGGGCGCGTCTACG
TTAAGGAAGCAACAAAAAGAAGGTCTTCCTTCACTTAGAGCCCGTCTATG
TTAAGGAAGCAAGCAAAAAACAAGGTCTTCCTTAACATAGGGCGCGTCTACGTTAAGGAAGC
> TTTGTCCTTT Con:1 reps=5 [91213,91536] l-int=324 l-seq = 52
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TTTGTCTTTTGCAGGTTCAAAGAAGACATTTTGGGGCCAGGTGCGGTATGT
TTTGTCTTTTGAAGGCTTCAAAGAAGACATTTGGAACCGGATGCAATCGTGT
TTTGTCTTTTGAAGGCTTCAAAGGGACATTTGGGGCCAGGATGCAACGTGT
TTTGTCTTTTGGCAGGTTCAAGAAGACATTTTGGGGCCAGGTGCAGTTTGA
TTTGTCTTTTGGGCGTTTCAAAGACATTTGAGCCAGGTGCGTCTTGTGTTTGTCTTT
> CTACGTTAAG Con:1 reps=13 [246661,247295] l-int=635 l-seq = 52
CTACGTTAAGGAAGCGAGCCAAAACCGCGTGTATCTTAAATAGAGAGCGCT
CTACGTTAAGGAAGCAGCTGAAATTTTCCGTGTATCTTAAATAGAGAGGCT
CTACGTTAAGGAAGCAAGTCAAATCTGCGTGTATCTTAAATAGAGAGGCT
CTACGTTAAGGAAGCAAGTCAAATCTGCGTGTATCTTAAATAGAGAGGCT
CTACGTTAAGGAAGCAGCGAAATCTGTCTGTATCTTAAATAGAGAGGCC
CTACGTTAAGGAAGCGAACCATAATCCGCGCGTATCTTAAATAGAGAGGCT
CTACGTTAAGGAAGCAGTCAAAACTGCTGTGTATCTTAAATAGAGAGGCT
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CTACGTTAAGGAAGCAAGCCAAACCTTCCGCGTATCTTAAATAGAGAGGCT
CTACGTTAAGGAAGCAGCTGAAATCCGTCGCGTATCTTAAATAGAGAGTGCT
CTACGTTAAGGAAGCAGTCAAAACAGCGGTGTATCTTAAATAGAGAGGGCTCTACGTTAAG
> CTATGTGAAG Con:1 reps=4 [272402,272568] l-int=167 l-seq = 52
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CTATGTGAAGAAAGCCCTTCATTTTCCAGCTTTCTTAACATAGCCGGGCT
CTATGTGAAGAAAGACCTTCTTTTTTCCATGCTCCCTTAAATAGCCGGGTCTATGTGAAG
> AAAAGACA Con:1 reps=9 [304761,305189] l-int=429 l-seq = 52
AAAAGACA AAAAGGAATGATTCCACCTGAAATGTCCCTAGAACACTTCA
AAAAGACA AAAAGGAGGTGGGACCGAGTCCAAAATGTCCTTTTAAAAAGTTCA
AAAAGACA AAAAGGATCCGCGGAGGTCCAAAATGTCCTTTTAGAGACCTTCA
AAAAGACA AAAAGGCAATGATTCTCGCCCCAAGATGTCCCTAGACCGCCTTCA
AAAAGACA AAAAGGAGTGGGGATCGAGCCAAAATGTCCTTTTAAAGATGCTCA
AAAAGACA AAAAGGATCTGGGTAGTGGTCCAAGTGTCTTTTAAAGACCTTCA
AAAAGACA AAAAGGGGTGGGACTGAGTCCAAAATGTCCTTTTAAAAAGTTCA
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 > CTTAA **CGTAG** Con:1 reps=17 [312592,313642] 1-int=1051 1-seq = 52  
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 CTTAA **CGTAGACGGCC** **TCTATG** TGAAGAAAGACCTTCAATTTTC **CGTGCTTC**  
 CTTAA **CATAGACGGGC** **TCTATG** TGAAGAAAGGTCATCTTTTTTT **CGTGCTTC**  
 CTTAA **CGTAGACGGGC** **TCTATG** TTAAGAAAGGC **CGTCAATTTTT** CATGCTTT  
 CTTAA **CGTAGACGGC** CCCTAAGTGAAGGAAGGTCTT **CGATTTTT** **CGTGCTTT**  
 CTTAA **CGTAGACGGGC** **TCTATG** TCAAGGAAGGTCTT **CGTTTT** **CGTGCTTT**  
 CTTAA **CGTAGACACCC** **TCTATG** TGAAGAAAGACCTTCAATTTTCCTTGCTTT  
 CTTAA **CATAGACGGGC** **TCTATG** TTAAGAAAGGC **CGTCAATTTTT** CATGCTTT  
 CTTAA **CGTAGACGGC** CCCTATGTGAAGGAAGGC **CGTCAATTTTT** CATGCTTT  
 CTTAA **CGTAGACGGCC** **TCTATG** TGAAGAAAGACCTTCAATTTTC **CGCG** CTTTC  
 CTTAA **CATAGACGGCC** CCCTATGTGAAGGAAGGTCTT **CGTTTT** TGCTTGCTTT  
 CTTAA **CGTAGACGGC** **TCTATG** TTAAGAAAGGC **CGTCAATTTTT** **CGTACTTC**  
 CTTAA **CGTAGACGGCC** **TCTATG** TGAAGAAAGACCTTCAATTTTC **CGTGCTTC**  
 CTTCA **CATAGACGGAC** **TCTATG** TGAAGAAAGGTCATCTTTTTTT **CGTGCTAT**  
 CTTAA **CGTAGACGGC** CCCTATGTAAAGGAAGGTCTT **CGTTTT** **CGTGCTTT**  
 CTTAA **CGTAGACGGGC** **TCTATG** TTAAGGAAGGCCATCTTTTTTT **CGTGCTTT**  
 CTTAA **CGTAGACGGC** **TCTATG** TGAAGAAAGGC **CGTCAATTTTT** CATGCTTC  
 CTTAA **CGTAGACGGC** CCCTATGTGAAGGAAGGCCATCTTTTTTTTGCTTT  
 CTTAA **CGTAGACGGCC** **TCTATG** TGAAGGAAGGC **CGCCAATTTTC** **CGCG** CTTCTCTTAA **CGTAG**  
 > TCGAAATGTC Con:1 reps=9 [374204,374914] 1-int=711 1-seq = 52  
 TCGAAA **TGTCCTTT** TGGGGGTTTGAAGGCCAAAG **CGCCTTG** GTTGTTGGTGT  
 TCGAAA **TGTCCTTT** TGGAGGTTACAA **AAGGACA** AAAGTGGCTTGGGTAGTGT  
 TCGAAATGCCTTTTGGAGAGCTCAA **AAGGACA** AAAGGAACCC **CGGGCAGTGA**  
 TCGAAA **TGTCCTTT** TGGAGGGCTCAA **AAGGACA** AAAGGAATC **CGGGTAGCGA**  
 TCGAAA **TGTCCTTT** TGGAGGGTTCAAAGGCCAAAAGTGGCTTGGGTAGTGT  
 TCGAAA **TGTCCTTT** TGGAGGTTTGAAGGCCAAAAGTGGCCTGGTTGGTGT  
 TCGAA **TGTCCTTT** TGGAGGCTT **CGAGGCCACTGAAGAAGT** **CGAAATAATC**  
 TCGCTAAACACTGTATTAGATGTATT **TACCGG** TTTTATCATACTATATATTGTGTTAGTGAATCTATTCAAAAAG  
 TTTTTCAGTGGCCT **CGGAGGCTTCAA** **AAGGACA** AAAG **CGCCTTG** GTTGTTGGTGT  
 TCGAAA **TGTCCTTT** TGGAGAGTTCAA **AAGGACA** AAAGGAATC **CGGGCAGTGA**  
 TCGAAA **TGTCCTTT** TGGAGGCTTCAA **AAGGACA** AAAGGACCC **CGGGTAGCGA**  
 TCGAAA **TGTCCTTT** TGGAGGTTTCAA **AAGGACA** AAAGTGGCCTGGTTGGTGT  
 TCAAAA **TGTCCTTT** TGGAGGTTTCAAAGGCCAAAAG **CGGCTTG** GTTAGTGT **CGAAATGTC**  
 > TCTAAGTTAA Con:1 reps=4 [378507,378725] 1-int=219 1-seq = 52  
 TCTAAGTTAAGGAAG **CGCAG** AAAAAAGGAGGTCTTCTTCA **CGTAGAGCCCG**  
 TCTAAGTTAAGGAAG **CGAAG** CAAAAATAAAGGCCCTTCTTAA **CATAGAGCCCG**  
 TCTAAGTTAAGGAAG **CGAGG** AAAAAAGAGGTCTTCTTCA **CGTAGAGCCCG**  
 TCTAAGTGAAGGAAG **CGTGG** AAAAAAG **CGGCCTTCTTCA** **CATAGAGCCATCTAAGTTAA**  
 > **AAAGACA** AAA Con:1 reps=5 [419590,419808] 1-int=219 1-seq = 52  
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**AAAGACA** AAAGGGGTTGCCCA **CGCAG** CAAAATGTCTTTCAT **CGGAGTTATG**  
**AAAGACA** AAAGAGAGCTGGAATC **CGAG** CAAAT **TGTCCTTT** TGGGGGATTCAA  
**AAAGACA** AAAGAAAGC **CGGACC** **CGGGTGAAT** **TGTCCTTT** TGGAGGTTCAA **AAAGACA** AAA  
 > TCAAAAAGAC Con:1 reps=7 [421586,421908] 1-int=323 1-seq = 52  
 TCAA **AAAGACA** AAAGAGAGCTGGAATC **CGAG** CAAATTGTCATTTGGAGGTC  
 TCAA **AAAGACA** AAAGAAAGT **CGGACC** CAGAGGCAAAC **TGTCCTTT** TGGAGGTC  
 TCAA **AAAGACA** AAAGAAAGC **CGGACC** **CGGGCAAAT** **TGTCCTTT** TGAAGGTC  
 TCAA **AAAGACA** AAAGAGAGCTGGGATC **CGTAC** AAAT **TGTCCTTT** TGAAGGTC  
 TCAA **AAAGACA** AAAGAGAGCTGGAATC **CGGGCAAAC** **TGTCCTTT** TGGAGGTT  
 TCAA **AAAGACA** AAAGAAAGC **CGGACC** **CGGGCAAAT** **TGTCCTTT** TGGGGGTTCAAAAAGAC  
 > TTTCAAAGGA Con:1 reps=6 [430682,430952] 1-int=271 1-seq = 52  
 TTTCAA **AAGGACA** TTT **CGGGCC** **CGGATGCAGCT** **CGTTT** **TGTCCTTT** TGA **CGGC**  
 TTTCAA **AAGGACA** TTT **CGGGCC** **CGGATGCAACTCCTTT** **TGTCCTTT** TGACAGG  
 TTTCAA **AAGGACA** TTT **CGTTACCTGATGCAGCT** **CGTTT** **TGTCCTTT** TGA **CGGC**  
 TTTCAA **AAGGACA** TTTTGGGCC **CGGATGCAATTCCTTT** **TGTCCTTT** TGACAGG  
 TTTCAA **AAGGACA** TTTTCATTCC **CGGATG** **CGGCA** **CGTTT** **TGTCCTTT** TGACAGGTTCAAAAGGA  
 > GCTCAAAAAG Con:1 reps=5 [447227,447445] 1-int=219 1-seq = 52  
 GCTCAA **AAAGACA** AAAGAGAGCTGGACCAGGAGCAAAT **TGTCCTTT** TGGAGA  
 GCTCAA **AAAGACA** AAAGAGAGT **CGGATCAGGGG** **CGAAT** **TGTCCTTT** TGGAGG  
 GCTCAA **AAAGACA** AAAGAAAGC **CGGACCAAGAGCAAAT** **TGTCCTTT** TGAATG  
 GCTCAA **AAAGACA** AAAGAGAGT **CGGATCAGGGG** **CGAAT** **TGTCCTTT** TGGAGAGCTCAAAAAG  
 > GT **TCTACG** TT Con:1 reps=9 [795794,796220] 1-int=427 1-seq = 52  
 GT **TCTACG** TTAAGGAACAGA **CGAAAAA** ATTGGTCAAAAGTTCA **CATAGAA** TG  
 GT **TCTACG** TTAAGGAACAGACAAAAATC **CGGT** CAAAAGTTCA **CGTAAAGTG**  
 GT **TCTACG** TTAAGGAACAGA **CGAAAAA** AT **CGGT** CAAAAGTTCA **CATAGAA** **CG**  
 GT **TCTACG** TTAAGGAACAGA **CGAAAAA** AT **CGGT** CAAAAGTTCA **CATAGAA** TG  
 GT **TCTACG** TTAAGGAACAGACAAAAATC **CGGT** CAAAAGTTCA **CATAGAG** **CG**  
 GT **TCTACG** TTAAGGAACAGACAAAAATC **CGGT** CAAAAGTTCA **CATAGAG** **CG**  
 GT **TCTACG** TTAAGGAAC **CGGA** **CGAAAAA** AT **CGGT** CATAAGTTCA **CATAGAGTG**  
 GT **TCTACG** TTAAGGAACATGCAAAAAATC **CGGCCATAAGTTCA** **CATAGAGCAGT** **TCTACGTT**  
 > TGTTCCTTAA Con:1 reps=4 [814905,815123] 1-int=219 1-seq = 52  
 TGTTCCTTAA **CATAGAGCGCG** **TCTATG** TGAAGGAAG **CGAGG** AAAAAATGCCT

TGTTCCCTTAA~~CGTAGA~~GTG~~CGTCTACG~~TGAAGGAAGCA~~CG~~CAAAAAAAT~~CGC~~  
 TGTTCCCTTAA~~CGTAGA~~GTG~~CGTCTATG~~TGAAGGAAA~~CGCG~~CACAAAAAT~~CGA~~  
 TATTCCTTAA~~CATAGA~~GTG~~CGTCTACG~~TGAAGGAAAC~~CG~~CAAGAAAT~~CG~~CTGTTCCCTTAA  
 > CTTAA~~CGTAG~~ Con:1 reps=8 [859087,859513] l-int=427 l-seq = 52  
 CTTAA~~CGTAGA~~~~CGGGTCTAAGTGAAGGAAG~~~~CGCG~~GAAAAAATTATTGTTT  
 CTTAA~~CGTAGGA~~~~CGCG~~CCTATGTGAAGGAAG~~CGGG~~~~CG~~AAAAATT~~CG~~TTGTTC  
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 CTTAA~~CGTAGGATG~~~~CGTCTAAGTGAAGGAAG~~~~CGAG~~~~CG~~AAAAATCTGGTGTACCTTAA~~CGTAG~~  
 > CTTCCCTAAC Con:1 reps=6 [880079,880505] l-int=427 l-seq = 52  
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 CTTCCCTTAA~~CGTAGA~~~~AGCGTCTATG~~TTAAGATACC~~CGG~~CAAAAC~~CGAGGGT~~  
 CTCCTTAACCTAGAG~~CGCG~~ACTA~~CG~~TTAAGATATC~~CG~~CAAAATTTTCT~~CG~~  
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 CTTTCCTTAA~~CATAGA~~GCA~~CGTCTACG~~TTAAGATATCCATAAAAAATTC~~CGCGT~~  
 CTTCCCTTAA~~CGTAGA~~GTGCT~~CTATG~~TTAAGATATC~~CGG~~CAAAAT~~CGAAGGT~~  
 CTTTCCTTAACTAGAG~~CGCG~~ACTA~~CG~~TTCAAGATACC~~CGT~~AAAAATTC~~CGCGT~~  
 CTTCCCTTAA~~CATAGA~~~~AGCGTCTATG~~TTAAGATACC~~CGG~~CAAAAT~~CGAGGGT~~CTTCCCTAAC  
 > TTCATAAG~~CG~~ Con:1 reps=4 [942373,942540] l-int=168 l-seq = 52  
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 TTCATAAG~~CGGGATG~~~~AAAGGACA~~ATAGGGGG~~CGA~~ACTGCAGTCAAGAAATGTCCTTCATAAG~~CGG~~  
 > ATG~~AAAGACA~~ Con:1 reps=5 [975899,976117] l-int=219 l-seq = 52  
 ATG~~AAAGACA~~TTTTAAAGGGTGG~~CGGG~~~~CG~~CCTATTTGTCTTCAC~~CGG~~TTTG  
 ATG~~AAAGACA~~AAACAAAG~~CGCG~~ACTGCTTGCCATTTGTCCCTCAT~~CGATGCG~~  
 ATG~~AAAGACA~~AAACAAAGGTATGA~~CGGGTATCG~~ATTTGTCTTCATCACCC~~CG~~  
 ATG~~AAAGACA~~TTTTATAAGATGGCTGCCAGTATTCTGTCTTCAC~~CGGCATAATG~~~~AAAGACA~~  
 > ~~AAGGACA~~AAA Con:1 reps=10 [1089498,1090080] l-int=583 l-seq = 52  
~~AAGGACA~~AAATGTATG~~CGTGTGAC~~~~CGGGG~~AAATGTCCTTCATTG~~CGG~~~~CGGGA~~  
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~~AAGGACA~~AAAGGAGTGA~~CGTTTGAGCC~~~~CG~~AAA~~TGTCTTTT~~TGAGCTTGTCAA  
~~AAGGACA~~AAACAGGCTGGATCAGGGGTCAAAC~~TGTCTTTT~~TGAAGC~~CGTCAA~~~~AAGGACA~~AAA  
 > ~~AAGGACA~~AAA Con:1 reps=14 [1091587,1092481] l-int=895 l-seq = 52  
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~~AAAGACA~~AAA~~CGCAGGCC~~~~CGAGAC~~~~CGGG~~AAAATGTCTTTCAC~~CGGGTTGATG~~  
~~AAGGACA~~AAACAC~~CGAGCTCG~~AAAC~~CGTAGA~~AATGTCTTTCAT~~CGAGGTAATG~~~~AAGGACA~~AAA  
 > TGTTTTGTGCC Con:1 reps=10 [1107902,1108435] l-int=534 l-seq = 52  
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 CCTTTTGTGCTTTTGG~~CGGCAGGTTCAA~~~~AAGGACA~~TTTCAGGCC~~CGGAAGCAGCG~~  
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 TGTTTT~~TGTCCTTT~~TGA~~CGGCTTCAA~~~~AAGGACA~~TTT~~CGGATCCAGAC~~~~CGTAACG~~  
 TGTTTT~~TGTCCTTT~~TGA~~CGGCTTCAA~~~~AAAGACA~~TTT~~CGAGCTCGGATGAAA~~~~CGT~~TTTTGTCC  
 > ~~CGTCTATGT~~ Con:1 reps=5 [1175303,1175521] l-int=219 l-seq = 52  
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~~CGTCTATGT~~TTAAGGAAGCATGGAAAAAGA~~CGGTCTTCTTCATGTATGGG~~  
~~CGTCTATGT~~TTAAGGAAGCATGGAAAAATGAGTTTCTTCTTCAC~~CGTAGAGG~~

GCGTCTATGTTAAGGAAGCGCGAAAAAACGACAGTCTTCTTAACGTAGGGAGCGTCTATG  
 > GTTAAGGAAG Con:1 reps=5 [1179203,1179473] l-int=271 l-seq = 52  
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 GTTAAGGAAGCAAGCAAAAAAGGCGGCCTTCTTTACGTAGAGGTCGTCTAT  
 GTTAAGGAAGCATGGAAAAAAGAAGTCTTCTTCACGTATGGGGCGTCTAT  
 GTTAAGGAAGCGCGAAAAAACGACAGTCTTCTTAACGTAGGGAGCGTCTAT  
 GTTAAGAAAGCAAGCAAAAACGAGGTTCTTCTTCACATAGAGCCCGCCTACGTTAAGGAAG  
 > CAAAAGGACA Con:1 reps=11 [1310475,1311005] l-int=531 l-seq = 52  
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 CAAAAGGACAAAACACCGTTGCATCTGGTCTCGGAATGTCCTTTTGAAGCTGC  
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 > GTCTACGTTA Con:1 reps=5 [1334998,1335268] l-int=271 l-seq = 52  
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 > GTTAAGGAAG Con:1 reps=5 [1568001,1568271] l-int=271 l-seq = 52  
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 GTTAAGGAAGCGTGGAATTTGGTGGCCTTCTTAAACATAGGGCGCATCTAC  
 GTTAAGGAAGCACGAAAAAACGAGGCTCTTCTTCACATAGACGCGTATAT  
 GTTAAGGAAGCGCGAAAAATGACGGCCTTTCTTCACATAGACGCGTCTAC  
 GTTAAGAAAGCGTGAAAAAACGAGGTTTTCTTTCATATAGAGCCTGTCTACGTTAAGGAAG  
 > GATGTTTCTT Con:1 reps=5 [1642950,1643272] l-int=323 l-seq = 52  
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 GATGTTTCTTAACGTAGAGTGCGTCTAGGTGAAGGAAGCTGGGGCAAAAGTC  
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 GATGTTTCTTAACGTAGAAGGTGTCTACGTTAAGGAAACGCGTGAAAAAAC  
 GATGTTTCTTAACGTAGAGTGCGTCTATGTTAAGGAAGGAGCGAAAAAATTGATGTTTCTT  
 > CTTAACGTAG Con:1 reps=6 [2233857,2234179] l-int=323 l-seq = 52  
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 CTTAACTTAGACGCGTCTATGTGAAGGAAGGCCTTCGTTTTTCCAAGCTTC  
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 CTTAACGTAGATGGGCTCTATGTTAAGAAAGGCCTTCGTTTTTCGTGCTTCCTTAACGTAG  
 > GCTTCCTTAA Con:1 reps=9 [2251337,2251815] l-int=479 l-seq = 52  
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 GCTTCCTTAACATAGACACGTCTATGTTAAGGAACAACCTCAATTTCTTC  
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 GCTTCCTTAACATAGACGCGTCTATGTAAAGAAAGGACTCATTTTTTCCAC  
 GCTTTCTTAACGTAGACGGGCTCTAGGTTAAAGAAGAGGACCATTTTCTTC  
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 > GCTTCCTTAA Con:1 reps=6 [2366309,2366944] l-int=636 l-seq = 52  
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 GCTTCCTTAACGTAGACGGGCTCTATGTGAAGAAAGACCTTCGTTTTTCGC  
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 GTTTCCTTAGCGTAGACAGGCTCTAGATTAAGAAAGCGCCTTGTTTTTGCTT  
 GCTTTCTTAATGTAGACAGGCTCTAGGTGAAGAAAGGCCATCTTTTTTCGTGCTTCCTTAA  
 > GATGAAGGAC Con:1 reps=4 [2375388,2375659] l-int=272 l-seq = 52  
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 GATGAAGGACAAAACAAAGGTCGACAAGCGGAATATTGTCTTCATAGGCGT  
 GATGAAGGACAAAACACCGGGCCGGCAACGGCGAATTGTCTTTCATAACTAT  
 GATGAAGGACAAAACATGGGCCCGCAACGGCGAATTGTCTTTCATAACTAT  
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 > CTTAACGTAG Con:1 reps=6 [2399253,2399523] l-int=271 l-seq = 52  
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CTTAACGTAGATGCACTCTATGTAAAGGAAGCGCCTCGTTTTTCCCGCGCTTC  
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> GCTTCCTTAA Con:1 reps=6 [2405830,2406100] l-int=271 l-seq = 52  
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GCTTCCTTAACGTAGACGCATCCTATGTAAAGAAACATTTCTTTTTTTCAC  
GCTTCCTTAACGTAGACACGCCCTATGTAAAAAAACAATGTCTTTTTTGCTC  
GCTTCCTTAACATAGACGCGCCCTATGTGAAGGAACATCTTCTTTTTTTCACCGCTTCCTTAA  
> TGTCCTTTTG Con:1 reps=6 [2412501,2412771] l-int=271 l-seq = 52  
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TGTCCTTTTGAATCCCTGTAAAGGACAGTTTACGCTTCGTTTCTACCTGAAT  
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> TTTTCATCGGC Con:1 reps=4 [2493743,2493909] l-int=167 l-seq = 52  
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> TGTCCTTCAT Con:1 reps=7 [2511339,2511869] l-int=531 l-seq = 52  
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> TGAAGGACAT Con:1 reps=4 [2533354,2533520] l-int=167 l-seq = 52  
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> TTAACCGTAGA Con:1 reps=5 [2557529,2557747] l-int=219 l-seq = 52  
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TTAACGTAGACGTGCCCTATGTGAAGGAAGACCCTCGTTTTTGCTTGCTTCC  
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> TTTGTCCTTT Con:1 reps=8 [2559923,2560297] l-int=375 l-seq = 52  
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> TTTTGTCTTT Con:1 reps=11 [2601680,2602405] l-int=726 l-seq = 52  
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> GATGAAGGAC Con:1 reps=9 [2756365,2756895] l-int=531 l-seq = 52  
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> AAAAGACATT Con:1 reps=18 [2756984,2757881] l-int=898 l-seq = 52  
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AAAAGACATTTCGACCGGCATCGTGCACCCTTTTGTCCTTTTGAACCTTGT  
AAAAGACATTTCAACCGGCCACATGCACCCTTTTGTCCTTTTGAACCTCTGT



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 > TAAGACA T Con:1 reps=7 [2759662,2759984] l-int=323 l-seq = 52  
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 TAAGACA TTTCAACCGGCAAAGTGTCCCTTTTGTCTTTTGACCTTTG  
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 > GTCTAATTAG Con:1 reps=5 [2867866,2868084] l-int=219 l-seq = 52  
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 GTCTAATTAGAACCGCAATTGGACATTTGCAGGAGGACTGCACGCTCATTC  
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 > CTATGTTAAG Con:1 reps=9 [2952075,2952501] l-int=427 l-seq = 52  
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 CTATGTTAAGGAACAACACTTTTGTCTCGCTTCTTAAAGTAGACGCTGCA  
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 CTATGTTAAGGAACAACGCAATTTTCTCGCTTCTTAAAGTAGACGCT  
 CTATGTTAAGGAACAAGCTATTTTCTCGCTTCTTAAAGTAGACGCTCTATGTTAAG  
 > CTTAAAGTAG Con:1 reps=7 [2987594,2988175] l-int=582 l-seq = 52  
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 CTTAAAGTAGACGCTCTATGTGAAGGAAGACGCTCATTTTTCACGCTTC  
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 > TCTACGTTAA Con:1 reps=15 [3137925,3138715] l-int=791 l-seq = 52  
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 > TTTTGTCTT Con:1 reps=4 [3150825,3150991] l-int=167 l-seq = 52  
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 TTTTGTCTTCTTACTTCTCGATGAAAGACA TTTCCAGGCTTCTTCTTCT  
 > TCGCTTCTT Con:1 reps=5 [3159024,3159294] l-int=271 l-seq = 52  
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 TGTCTTCTTAAAGTAGACGCTTCTATGTGAAGATAGCTGCGATTTTCT  
 TCGCTTCTTAAAGTAGACGCTTCTATGTGAAGATAGAACACAGTTTCTT  
 TCGCTTCTTAAAGTAGACGCTTCTACGTTAAGGAAGACCTGCAATTTTCTCGCTTCTT  
 > GTGAAGGAAC Con:1 reps=4 [3165204,3165422] l-int=219 l-seq = 52  
 GTGAAGGAACAACGCGCTTTTCTACTCTTCTTAAAGTAGACGCTTCTAT  
 GTGAAGGAACAACGCGCTTTTGTATGCTTCTTAAAGTAGACGCTCTAC

GTGAAGGAACAAGGCAATTTTGTCTCGCTTCCTTAACGTAGATGGCCTCTAT  
GTGAAGGAACAGCGACTTTTTTACCTCGCTTCCTTAACGTAGACAACCTCTATGTGAAGGAAC  
> TTTTGTCTTT Con:1 reps=9 [3215264,3215690] l-int=427 l-seq = 52  
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> CTTAACGTAG Con:1 reps=8 [3382355,3382833] l-int=479 l-seq = 52  
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> TTTTGGCTTT Con:1 reps=11 [3474529,3475266] l-int=738 l-seq = 52  
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> ATGAAGGACA Con:1 reps=7 [3475558,3475933] l-int=376 l-seq = 52  
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ATGAAGGACAAAATAAAGTCGCCACAACCCCAAATGTCTTTCATGCGCCAG  
> CTATGTGAAG Con:1 reps=6 [3502875,3503248] l-int=374 l-seq = 52  
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> GTTAAGGAAG Con:1 reps=6 [3514468,3514791] l-int=324 l-seq = 52  
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> GCTTCCTTAA Con:1 reps=8 [3567366,3567793] l-int=428 l-seq = 52  
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GCTTCCTTAACGTAGACGCACTCTATGTGAAGGAAGACCTTCGTTTTTCTAC  
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GCTTCCTTAACGTAGACGGGCTCTACGTGAAGGAAGGCCTTCGTTTTTCTGCGCTTCCTTAA

***B.alkalitelluris* (NZ KV917374.1). All tandem repeats with repeat 51-52**

Practically all tandem repeats have two short palindromic signals in each 52 nt repeat. There are three main signals, shown in different colors:

AAAqGGAAT, AAAGCTGTC, AATCATAG

Only part of the repeat is highlighted.

```
> GCTGTCCGAA Con:1 reps=14 [115528,116213] l-int=686 l-seq = 52
```

**GCTGTC**CGAAGTTGGTTGAGGTTCA**GACAGC**TTGAGGATCAAAGAGAGAAA  
**GCTGTC**CGAACTTGGCTGAGGTTCA**GACAGC**TTGGGAGACACAAGAGAGAAA  
**GCTGTC**CGAACTTGGCTGAGGTTCA**GACAGC**TTGAGGATCAAAGAAAGAAA  
**GCTGTC**CGAATTAGCTAAGGTTCA**GACAGC**TTAAGGATCAAAGAGGGAAA  
**GCTGTC**CGAACTTGGATGAGGTTCAAACAGCTTGAGGGGAGAAACAGATAAA  
**GCTGTC**CGAACTTAGCTTAGGTTCA**GACAGC**TTGAGGGGAGAAAACAGATAAA  
**GCTGTC**CGAACTTGGCTTAGGTTCA**GACAGC**TTGGGAGACAAAAGAGAGAAA  
**GCTGTC**CGAACTTGGCTGAGGTTCA**GACAGC**TTGGGAGACACAAGAGAGAAA  
**GCTGTC**CGAACTTGGCTGAGGTTCA**GACAGC**TTAAGGATCAAAGAGGGAAA  
**GCTGTC**CGAACTTAGCTTAGGTTCA**GACAGC**TTGAGGGAGAACACAGAGAAA  
**GCTGTC**CGAACTTGGCTGAGGTTCA**GACAGC**TTAAGGCTCAAAGAGGGAAA  
**GCTGTC**CGAACTTAGCTTAGGTTCA**GACAGC**TTGAGAAAGAAAACAGATAAA  
**GCTGTC**CGAACTTGGCTGAATTCA**GACAGC**TTGAACGAGAAAACATGTAAT**GCTGTC**CGAA

```
> ACTTCAGACA Con:1 reps=8 [123004,123378] l-int=375 l-seq = 52
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ACTTCAGACAACTTCTGCAACCAAGAACCTAAAGCTGTCTCGAAGCTCTTGCCCT  
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ACTTCAGACAACTTCTGCCGCCAATTACTTAAACCTGTCCGAAGCTCTTGCCCT  
ACTTCAGACAACTTCTGCCGCCAATTACTTAAACCTGTCCGAAGCTCTTAACT  
ACTTCAGACAGCTTTACCAGACCAATTACCTAAAGCTGTCTCGAAGCTCTTGCCCT  
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> GAGCAACTTG Con:1 reps=9 [208479,209009] l-int=531 l-seq = 52
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GAGCAACTTGATCGTAGAACTCCTATGATTCACTTCCCTACAATTAATGTGC  
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GAGCAACTTGGTCATAGACCTCCTATGATTCACTTACCTATAATTAATGTGC  
AAGCAACTTGATCATAGACCTCCTATGATTCACTTCCCTACAATTAATGTGC  
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```
> CTTTCGGACAG Con:1 reps=14 [287166,287852] l-int=687 l-seq = 52
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[illegible]

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GTTTCGGACAGCTTGGACCCCAAAAGATCAAAAGCTGTCCGAAGTCAAGGTAA  
GTTTCGGACAGCTTGGACCCCTATAAATCAAAAGCTGTCCGAAGTCAAGGTAA  
GTTTCGGACAGCTCGGACCCCAATAAATCAAAAGCTGTCCGAAGTCAAGGTAA  
GTTTCGGACAGCTTAGGGACCAATAGATCAAAAGCTGTCTGAAGTCGGAGCAG  
GTTTCGGACAGCTTGGACCCCAATAGATCAAAAGCTGTCTGAAGTCGGAGCAG  
GTTTCGGACAGCTTGGACCCCAATAAATCAAAAGCTGTCCGAAGTCAAGGTAA  
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> CAGGCAACTT Con:1 reps=4 [4542766,4542983] l-int=218 l-seq = 52  
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CAGGCAACTTGATCATAGAAGGTCTATGATTTACTTCTCCTCGTTTTTCGT  
CAGGCAACTGAATCATAGAAGGCCATGGTTTACTTTCTCCTCGTTTTTCGT  
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> ATTCCCTTTG Con:1 reps=10 [4572662,4573194] l-int=533 l-seq = 52  
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ATTCCCTTAGTCGGAGAAAATACACAGGAAAGGGAACGAAAGGAACGCTTTG  
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ATTCCCTTTGTCGGAGAAAATACACAGGAAAGGGAACGAAAGGAGCGCTTTG  
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> TGAACCTGTCTGAACCTTACCTTCACTTCAGACAGCTTTTGGCTTCTGGCACA  
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TGAACCTGTCCGAACCTTGTCTCCACTTCGGACAGCTTTTCGGCTTCTGGCGCT  
TGAACCTGTCCGAAGTTGAGCACTCTTCGGACAACCTTTCGGCTTCTAACGCA  
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[illegible]



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AAGTGAATCATTGGCTCTCTATGATTTTCAGTTGCTAAAGCGGAAACAAGGAGA  
AAGTGAATCATTGGCTCTCTATGATTTTCAGTTGCTAAAGCGGAAACAAGGAGAAAGTGAATCA  
> AAAAGCTGTCT Con:1 reps=15 [5152559,5153297] l-int=739 l-seq = 52  
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AAAAGCTGTCTGAACTTGAGCCTACTTCGGACAGCTTTAGGAGCCATGCGGC  
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> CTGTTTCAGAC Con:1 reps=10 [5249431,5249908] l-int=478 l-seq = 52  
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CTGTTTCAGACAGCTTCTCTCTTTTCTAGCTAAGGCTGTCCGAAGTTGCGTT  
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> ACTTCGGACA Con:1 reps=10 [5267087,5267720] l-int=634 l-seq = 52  
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> AAGCTGTCTTG Con:1 reps=33 [5404130,5406169] l-int=2040 l-seq = 52  
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AAGCTGTCGAACCTACCTCACCTTCGGACAGCTTGACTCCCAAGAAAGCTAAAAAGCTGTC

**B. mesonae (NZ KV440949.1).** All tandem repeats with repeat 52-53

Signal sequences: **TTTTC** and **TTCAT**

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> TTTTTACCGC Con:1 reps=7 [69909,70770] l-int=862 l-seq = 53
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.....
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TTTTTACCGCTTGACCTCCTTCTAAGCACTCCGCGGGCAATAGAACCCTCTTC
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TTTTTACCGCCTAACCCATACTCAGCACTCCTCGGGCAATAGAACCCTCTTC
TTTTTACCGCCTCACACCCTTCAAAGGACCCAGCGGGCAATAGAACCATCTAC
TTTTTACCACCTTACCCTTCCGAGACCCAGCGGGCAATAGACCCTCTTCTTTTTACCGC
> TCTACGTTAC Con:1 reps=9 [122623,123151] l-int=529 l-seq = 52
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TCTACGTTACCCTACTGCCTTTTTTTCACTCTTTTCAGTCACCTAGACCCCT
TGTACGTTACCCTACTGCCTTTTTTTCACCTCTTCGGTCACGTTGACCCTT
TCTACGTTACCTTACATGCTTCCTTTTCATTCTTTTGTACGTAGACCCCT
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CCTATGTTACCCTAATGCCTTTTTTTCACCTCTTCGGTCACGTAGACCCCT
TCTACGTTACCTACAACCTTTTTTTCACCTTTTCGGTCACGTAGACATCC
TCTACGTTACCTACAACCTTTTTTTCACCTTTTCGGTCACATAGACATCCTCTACGTTAC
> AACCTCTCTA Con:1 reps=6 [247094,247364] l-int=271 l-seq = 52
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AACCTCTCTACGTGACCACACGATCACTTTTTCATCCGGTTCGGTCACGTAT
AACCTCTCTACGTGACCACACGATCACTTTTTCATCCGGTTCGGTCACGTAG
AACCTCTCTACGTGACCCTACGACCACATTTTCATCCGGTTCGGTCACGTAG
AACCTCTCTACGCGACCACACGACCACATTTTCATCCGGTTCGGTCACGTAGAACCTCTCTA
> ACCTTTTTCT Con:1 reps=9 [263113,263539] l-int=427 l-seq = 52
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ACCTTTTTCTTCTGCTACGGTCGCGTAGAACCTCTCTACGTGACCCAACATC
ACCTTTTTCTTTCGTCTACGGTCGCGTAGAACCTCTCTATGTGACCCAACATC
ACCTTTTTCTTCTGCTGCGGTCACTTAGAACCTCTCTATGTGACCCAACATC
ACCTTTTTCTTTCGTCTACGGTCACTTAGAACCTCCCTACGTGACCGAACATC
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ACCTTTTTCTTTCAGCTACGGTCGCGTAGAACCTCTCTATGTGACCCAACATC
ACCTTTTTCTTTCAGCTACGGTCACGTAGAACCTCTTTACGTGACCGAACATCACCTTTTTCT
> AAGACAGTTT Con:1 reps=4 [309597,309763] l-int=167 l-seq = 52
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AAGACAGTTTATATGATTTTTCAAACTGTATTGTCTCAAGAAGCCTTATTGAAGACAGTTT
> CCTCTATGTG Con:1 reps=5 [379346,379564] l-int=219 l-seq = 52
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CCTCTATGTGCACTTCACAAGCTTTTTCAATCGGTTTCATTTCATTGAGAT
CCTCTATGTGCACTTACCGAGCTTTTTCCATCGATTTTGTGTTCATTGAGAC
CCTCTATGTGCACTTCACAAGCTTTTTCAAAACCGTTCCGTGTTCATTGAGACCCCTCTATGTG
> TATCGAAGAC Con:1 reps=4 [512977,513195] l-int=219 l-seq = 52
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TATCGAAGACAAATTCTACCACTTCCACCCGCGTTTTGTCTCAAGGACCC
TATCGAAGACATTTTTCGCCGCTTCTACCTTCGTTTTGTCTCAAGATGCCT
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> AAAGTGTTTC Con:1 reps=8 [834005,834379] l-int=375 l-seq = 52
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AAAGTGTTTCCAATCAAGGCTATTGGCGACATAACTCAGTGTAATAAATGAGT
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AAAGTGTTTCCAATCAAGGCTGTTGGCGACATAACTCAGTGTAATAAAGCTGA
AAAGTGTTTCCAATCAAGGCTATTGGCGACATAACTCGGTACATAAATGAGGAAAGTGTTTC
> GGGCACGTTAG Con:1 reps=7 [972202,972524] l-int=323 l-seq = 52
```

[illegible]

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 CTTTATTTTGACCGACGACCTTCTTCTTGGTACCTTCACGGAAGAATCAGAC  
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 CTTTATTTTGACCGGTGACCTCCTTCTTGATACCTTTGCGGGAAGAATTACGC  
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 > ACCTTTTTCA Con:1 reps=5 [1916684,1916902] l-int=219 l-seq = 52  
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 > TTTTGTCTT Con:1 reps=11 [1920272,1920905] l-int=634 l-seq = 52  
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 TTTTGGCTTGACCCACGACTG  
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 > AAGTGTCTCC Con:1 reps=7 [1939675,1940049] l-int=375 l-seq = 52  
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 > TATGAAGGAC Con:1 reps=6 [1954829,1955099] l-int=271 l-seq = 52  
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TATGAAGGACATTTTGAACCCGGGTCCCAGCTATTTTGGTCTTTTCATCGGGTT  
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 > TTGACCAAAA Con:1 reps=4 [1966100,1966266] l-int=167 l-seq = 52  
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 > CAAAATGGTC Con:1 reps=10 [2290722,2291200] l-int=479 l-seq = 52  
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 > GGTTCGTGT Con:1 reps=9 [2299724,2300151] l-int=428 l-seq = 52  
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> AAAGTCACGT Con:1 reps=8 [2327343,2327770] l-int=428 l-seq = 52  
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TGTCTTTAATAAGGCTTCTAGAAGACAAACCCGGCCTAGAAACCTATGAAAA  
TGTCTTTAATAAGGCTTCTAGAAGACAAACCCGGCCTAGGAACCTATGAAAA  
TGTCTTTAATAAGGCTTCTAGAAGACAAACCCGGCCTAGGAACCTATGAAAC  
TGTCTTTAATAAGGCTTCTAGAAGACAAACCCGGCCTAGGAACCTATGAAAC  
TGTCTTTAATAAGGCTTCTAGAAGACAAACCCGGCCTAGGAACCTATGAAAA  
TGTCTTTAATAAGGCTTCTAGAAGACAAACCCAGACCAGAAACCATATAATT  
TGTCTTTAACAACAAATGAAAGGACCAATCTAACCTCCCCCTAAAAATGTCTTTAAT  
> GTCGCATAGA Con:1 reps=7 [3775783,3776105] l-int=323 l-seq = 52  
GTCGCATAGAAGGGGTATACGAGCCCGGGCGCGGAAAAAATGGAGGTGCCG  
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GTCGCATAGAAGGGGTATAGGCGACCGGGCGCGGGAAAAGTGGAGGAGCCG  
GTCGCATAGAAGGGGTATAGACGACCGAACCGCAGAAAAAATGGAGGTGCCA  
GTCGCATAGAAGGGGTATACGCGCCCGAGCGCGGAAGAGAAGAGTTGTCG  
GTCGCATAGAAGGGGTATACGCGCCCGAGCGCGGGAAAAAGAAGAAGCGTCGGTCGCATAGA  
> ATGAGAACAG Con:1 reps=4 [3779055,3779221] l-int=167 l-seq = 52  
ATGAGAACAGAGAGCTGTGGGAGCGTGCCGTCTTGTCTCATAAAGTGCCC  
ATGAGAACAGGAAAACCAAGCAACTGCCCTAATCTTGTCTCATAAAGCGTTC  
ATGAGAACAGAAAGCTGAGAAAAAGTGCCGCCCTTGTCTCATAAAGCGCCATGAGAACAG  
> TTGGAACAC Con:1 reps=6 [3785428,3785698] l-int=271 l-seq = 52  
TTGGAACACACTTTTGTGCTTTTGCTAAGAGAAATGTCGCCAACAGGCCCA  
TTGGAACACACTTTTGTGCTTTTGCTAAGAGAAATGTCGCCAACAGGCCCA  
TTGGAACACACTTTTGTGCTTTTGCTAAGAGAAATGTCGCCAATAGACCCG  
TTGGAACACACTTTTGTGCTTGTACTAAGAGAAATGTCGTCAATAGGCCCTA  
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> TTTTCGGAAAA Con:1 reps=7 [3807647,3808021] l-int=375 l-seq = 52  
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TTTTCGGAAAAAGTGTTTCATAGAAGAGGTCAATGAGCACATGGCTTTGAGTTT  
TTTTCGGAAAAAGTGTTTCATAGAAGAGGTCAATGAGCACATGAGGCTGAATTT  
TTTCAGAAAAGGTGTTTCATAGAAGAGGCCAATGAGCAAATGTGGCTAAGTTT  
TTTTCGGAAAAGGTGTTTCATAGAAGAGGTCAATGAACACATGAGGCTGAGTTT  
TTTTCGGAAAAAGTGTTTCATAGAAGAGGTCAATGAGCACACGGCTCTGAGTTTTTTTCGAAAA  
> TTGGAACAC Con:1 reps=15 [3814968,3815757] l-int=790 l-seq = 52  
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TTGGAACACACTTTACTAGTATTTTCGCAGAGATTGTTTCCAATAGGTGCGA  
TTGGAACACACTTTACTCTATTTTTCATATAGATTGTTTCCAATAGATGCGA  
TTGGAACACACTTTACTCGTATTTTCACAGAGTTTGTTCCTAATAGGTGCGA  
TTGGAACACACTTTACTCGTATTTTCGAGAGATTGTTTCCAATAGTTGTGA  
TTGGAACACACTTTACTCGTATTTTCGCAGAGTTTGTTCCTAATAGGCGTGA  
TTGGAACACACTTTACTCTATTTTTCATATAGATTGTTTCCAATAGATGCGA  
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> TATTGCCCCG Con:1 reps=13 [3822748,3823390] l-int=643 l-seq = 53  
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TATTGCCCCGATTGGGTGTCCAAGGGGTGCAAATGGTAAAAAGAAAAAGCTTTC  
TATTGCCCCGAAAAAGGTCCGAAGAGGTCTTAACGGTAAAAAGAAACAGCTTC  
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TATTGCCCCGAAATGGGTCCGAAGAGGGCTAATGGTAAAAAGAACACGCTTC  
TATTGCCCCGATTGGTGTGTCCAAGGGGTGCAATGGTAAAAAGAAAAAGGTTC  
TATTGCCCCGAAATGGGTCCGAAGAGGGCTAATGGTAATAAGAACACGCTTC  
TATTGCCCCGATTGTGGTGTCCAAGGGGTGTAATGGTAAAAAGAAAGTGGTTTT  
TATTGCCCCGAGCAAGGTCTTGAGGGGGGCAAACGGTAAAAAGAAAAAGGTTC  
TATTGCCCAGAAAAAGGTCCGAAGAGGTCCAAACGGTAAAAAGAAACACGCTTC  
TATTGCCCCGATTGGGTGTCCAAGGGGGTGCATATGGTAAAAAGAACACGCTTCTATTGCCCCG  
> TAGGCGACCG Con:1 reps=7 [3843104,3843426] l-int=323 l-seq = 52  
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TAGGCGACCGAGGGAGCGGAAAAAGAGTTTACGGGTAGAGTAGAAGGGATA  
TAGGCGACCGAGAGAGTGAAGAAAAAGAGATTGCGGGTAGCGTAGAAGGGTTA  
TAGGCGACCGAGAGAGCGGAAAAAGAGATTGCGGGTAGCGTAGAAGGGTTA  
TAGGCGACCGAGGGAGCGGAAAAAGAGATTGCGGGTAGCGTAGAAGGGCTA  
TAGGCGACCGAGAGAGCGGAAAAAGGAGTCACGGGTAGCGTAGAAGGGCTTTAGGCGACCG  
> CTATTGGAAA Con:1 reps=5 [3851718,3851935] l-int=218 l-seq = 52  
CTATTGGAAACATTTTGTCCAATTTTAACCTAAGTCTTGTGTCCTAATACCGC  
CTATTGGAAACACTTTGTCCAATTTTAACCTAAGTATTGTGTCCTAATACCGC  
CTATTGGAAACACTTTGTCCAATTTTAACCTAAGTATTGTGTCCTAATAGCGCTATTGGAAA  
> ACTATGGGAG Con:1 reps=14 [3869085,3869771] l-int=687 l-seq = 52  
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ACTATGGGAGGTTTCATAGAGCGCGAAATTGTGAAAAAGGAAAGACTCCGCGC  
ACTATGGGAGGGTCATAGAGCGTGAAATTAGGAAAAAGAAAAAGATTCCGCGT  
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ACTATGGGAGGTTTCATAAAGCGTGAAATTAGGAAAAAGAAAAAGATTCCGCGT  
ACTATGGGAGGTTTCATAAAGCGTGAAATTAGGAAAAAGAAAAAGATTCCGCGTACTATGGGAG  
> CAATGAAAC Con:1 reps=5 [3869826,3870044] l-int=219 l-seq = 52  
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CAATGAAACACGAAACTCTAGAAAAAGAGTAAAAAGTGCACATAGAGGGTCT  
CAATGAAACACGTAGCCCCAGAAAAATAACAAATACATGCGCATTGAAGGGTT  
CAATGAAACACGAAACTCCAAGAAAAAAGCAAGTTAGTGCTATAGAAAGGTTCAATGAAACAC  
> TATTGCCCCG Con:1 reps=8 [3880946,3881427] l-int=482 l-seq = 52  
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TATTGCCCCGAGGAGGTGCGGGAAGAGAAGTCAGCGGTAAAGATGAGAGGTTGA  
TATTGCCCCGAGGAGACGAGGAAGGGAGGTAAAGCGGTAAAGATGAGAGGTTGA  
TATTGCCCCGAAGAGAAAGAAAAAATTAATCCCGCGGTAAAAAGACCAGGCTTC  
TATTGCCCAGAAAAAGGAAAAAGTAAGTCCCGCGGTAAAAAGAAAGTGTCTC  
TATTGCCCAAAGAGAAAGAAAAAATTAATCCCGCGGTAAAAAGACCAGGCTTC  
TATTGCCCGAATAGAGGAAAAAGTAAGTCCCGCGGTAAAAAGAAAGTGTCTC  
TATTGCCCGAAGAGAAAGAAAAAATTAATCCCGCGGTAAAAAGACCAGGTTTC  
TATTGCCCAAAGGCGCGAAAAAGTAAGTCCCGCGGTAAAAAGACCAGGCTTCTATTGCCCCG  
> TGGAAACAAA Con:1 reps=11 [3938063,3939318] l-int=1256 l-seq = 52  
.....  
TGGAAACAAAACACTCACGAAGAAAGCGGCAGAAATGTTTCCAATGAGGGCTAT  
TGGAAACAAAACACTCACGAAGAAAGCGGGAGAAATGTTTCCAATGAAAGGCTAT  
TGGAAACAAAATCTCACGAAGAAAGCGGGAGAAATGTTTCCAATGAAAGGCTAT  
TGGAAACAAAACACTCACGAAGAAAGCGGCAGAAATGTTTCCAATGAGGGCTAT



TGGAAACAAAACCTCAGAAAGAAAGCGGGAGAAATGTTTCAATGAAGGCTAT  
TGGAAACAAAATCTCACGAAGAAAGCGGGAGAAATGTTTCCAATAAGGGCTAT  
TGGAAACAAAATCTCACGAAGAAAGCGGGAGAAATGTTTCCAATGAGGGCTAT  
TGGAAACAAAACCTCACGAAAAAAGCGGGAGAAATGATTCCAATAAGGGCTAT  
TGGAAACAAAACCTCACGAAGAAAGCGGGAGAAATGATTCCAATGAGGGCTATTGGAAACAAA  
> AGCGTTTATG Con:1 reps=12 [4057906,4058541] l-int=636 l-seq = 52  
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AGGGGTTATTGGAACAAAGAGCCGAAGATTTGAGTCCGTAAGTGTCCCTCATGA  
AGCGTTTATGAGAACAGAGAGCTAATGATTTGGGCCGAAACTGTCCCTCATGA  
AGCGTTTATGAGAACAGAGAGCTAATGATTTGAGTCAGAACTGTCCCTCATGA  
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AGCGTTTATGAGAACAGAGAGCTAATGATTTGGGCCGAAACTGTCCCTCATGA  
AGCGTTTATGAGAACAGAGAGCTAATGATTTGGGCCGAAACTGTCCCCATGA  
AGCGTTTATGAGAACAGAGAGCTAATGATTTGAGTCAGAACTGTCCCTCATGA  
AGCGTTTATGAGAACAGAGAGCTAATGATTTGAGTCAGAACTGTCCCTCATGA  
AGCGTTTATGAGAACAGAGAGCTAAAAGATTTGGGTGCGAACTGTCCCTCATGAAGCGTTTATG  
> AAGAAGTGT Con:1 reps=6 [4170771,4171041] l-int=271 l-seq = 52  
AAGAAGTGTCCATAGAGGTCTCAATGAACACAAAATTTGTAAGGAGAG  
AAGAAGTGTCCATAGAGGTCTCAGTGAACACGAAGTCGTGTAAGGCGG  
AAGAAGTGTCCATAGAGATCTCAATGAACACGAAGCCGTGAAATAAGCGG  
AAGAAGTGTCCATAGAGGTCTCAATGAACACGAAATCGTGTAAGGAGAG  
AAGAAGTGTCCATAGAGGTATTCAATGAACACGAAATCGTGTAAGGCGGAAGTGTCT  
> AAAAAAGAGA Con:1 reps=16 [4191741,4192532] l-int=792 l-seq = 52  
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AAAAAAGAGAGCGCCGAGTAGCATAAAGAGCGTCTATGCGACCGAGCCAGAG  
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AAAAAAGAGAGAGCGCCGGTAGCATAAAGAGTATCTATGCGACCGAGTACGAG  
AAAAAAGAGAGCGCCGGTAGAGTAGAGAGCATCTATGCGACCGAGCCAGAG  
AAAAAAGAGAGCGCCGGTAGAGTATAGAGCGTCTATGCGACCGAGCCAGAG  
AAAAAAGAGAGAGCGCCGGTAGAATAGAGAGCATCTATGCGACCGAGCCAGAGTAAGAGAG  
> GCGACAAAAC Con:1 reps=7 [4300776,4301098] l-int=323 l-seq = 52  
GCGACAAAACACTGTTTGTAAGGCTAAGTGTCTCAATGAAGGCTATTA  
GCGACAAAACCTCGAGTAAGGATAAGGCGAAGTGTATCCAATGAGGACTATTG  
GCGACAAAACCTGTTTGTAAGGCGAAGTGTATCCAATGAAGGCTGTTG  
GCGACAAAACCTGTTTGTAAGGCGAAGTGTATCCAATGAAGGCTATTG  
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GCGACAAAACCTGTTTGTAAGGCGAAGTGTATCCAATCGTGGCTATAG  
GCGACAAAACCTCGAGGAGCAAGAGAGTAAAGTGTATCCAATGAGGGCTATAGGCGACAAAAC  
> TCAATGAACA Con:1 reps=6 [4719016,4719338] l-int=323 l-seq = 52  
TCAATGAACATGATTTGGTAAAATTTCCGGTTGGAAGTGTTTCATAGAAAGGT  
TCAATGAACATGAATCGGCAAAACCTTTAGGTGGGAAGTGTTTCATAGAGAGGT  
TCAATTAACACGAATCGTCAAAATTTTAGGTGGGAAGTGTTTCATAGAGAGGT  
TCAATGAACACGAATCAGCAAAATTTTCAGTCAAGAAGTGTTTCGTAGAGAGGT  
TCAATGAACACGAATCAGCAAAATTTTCGGTCAAGAAGTGTTTCGTAGAGAGGT  
TCAATGAACACAAATTTGGCAAAATTTAATTCAGGAAGTGTCATAGAGGAAGTCAATGAACA  
> TCTACGTGAC Con:1 reps=6 [4729327,4729597] l-int=271 l-seq = 52  
TCTACGTGACCAAAACAACCTCTTTTCTTCCGTTACGGTCACGTAGAACCTC  
TCTACGTGACCAAAACAACGCTTTTCTTCCGCTACGGTCACGTAGAACCTC  
TCTACGTGACCGAAACAACCTCTTTTCTTCCGTTACGGTCACGTAGAACCTC  
TCTACGTGACCGAACAGCCCTTTTCTTCCGCTAGGGTCACGTAGAACCTC  
TCTACGTGACCGGACAACCCCTTTTCTTCCGCTAGGGTCGCGTAGAACCTGTCTACGTGAC  
> ATTGCCCAAA Con:1 reps=15 [4951452,4952190] l-int=739 l-seq = 52  
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ATTGCCCAAAATCGGTGATTAGATGGAAATTGGTCAATGGACGGGGCTGTC  
ATTGCCCAAAATCGGTGATTAGATGGAAATTGGTCAATGGACGGGGCTGTC  
ATTGCCCAAAATCGGTGATTAGATGGAAATTGGTCAATGGATGGGGCTTGC

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 > GTCGCATAGA Con:1 reps=8 [4975737,4976319] l-int=583 l-seq = 52  
 GTCGCATAGAAGGTGAATACGCGATTGAAGCGGC**GAAAA**AATCGTGAGCGCG  
 GTCGCGTAGAAGGTGTATACGCGACTGAAGAGCCG**GAAAA**ATTAGGAGCTGG  
 GTCGCATAGAAGGTGTATATACGACCGAAGCGGC**GAAAA**AATCGTTAGCTGG  
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 GTCGCATAGAAGGCGCATACGCGACTGAAGCGGCAAAAAACCGTGCCCGGG  
 GTCGCATAGAAGGTGAATACGCGACTGAAGCGGC**GAAAA**AAATCGTGCCCCATGTCGCATAGA  
 > **GAAAA**AGAA Con:1 reps=5 [5059185,5059455] l-int=271 l-seq = 52  
**GAAAA**AGAAGAGAGGCCGGTTCGAATAGAAAGAGTATATGCGACCGAGCGTC  
**GAAAA**AGAAGGTCCACCGGTTCGCATAGAAAGAGTATATGCGACCGAGCGCC  
**GAAAA**AGAGGAGCCGTCGGTTCGCATAGAAAGGTATATGCGACTGAGCGGC  
**GAAAA**AGAAGAGAGGCCGGTTCGAATAGAAAGGCATATGCGACTGAGCGGC  
**GAAAA**AGAAGAGTAATTGGTTCGCATAGAAAGAGTATACGCGACTGAGCGGT**GAAAA**AGAA  
 > TCTACGTGCC Con:1 reps=6 [5285435,5285705] l-int=271 l-seq = 52  
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 TCTACGTGCCCCAAGTTCAATAAATTAGTGAGTTTCGGTCACGTAGACCTCT  
 TCTACGTGCCCCAAGTCCAATAAATTAGTGGTTTCGGTTCGCGTAGAGCCCA  
 TCTACGTGCCCCAATCCAATAAATTAGTAGTTTCGGTTCGCGTAGAGCCCA  
 TCTACGTGCCCCAAGTTCAATAAATTAGTAGTTTCGGTTCGTGTAGAGATCTTCTACGTGCC  
 > TTGACCTTTT Con:1 reps=8 [5395730,5396209] l-int=480 l-seq = 52  
 TTGACCT**TTTTC**TTT**GAAAA**ACAAATAGTTTAGGGCA**ATGAA**CATGGCTCCCA  
 TTGACCT**TTTTC**TTTTAAATCAATTAGTTTAGGCAATGCACATGGCTTCCA  
 TTGACCT**TTTTC**TTT**GAAAA**ACAAATAGTTTAGGGCAATGCGCGGGGCTCCCA  
 TTGACCT**TTTTC**TTTTAAATATCAATTAGTTTAGGTAATGCACATGGCTTCCA  
 TTGACCT**TTTTC**TTTCAAAATCAACTAATTTGGGCA**ATGAA**CAAAGCTTCCA  
 TTGACCGTTTCT**TTTCAT**AATCAATAGTTTAGGGCA**ATGAA**CAGGGCTTCCA  
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 TTGACCT**TTTTC**TTTTAAATATCAATTAGTTTAGGCAATGGACATGGCTTCCA  
 TTGACCT**TTTTC**TATTTAAACTATCTAGTTTAGGGCAATGGACATGGCTTCTTTGACCTTTT  
 > CTTCAATGTG Con:1 reps=5 [5398707,5398978] l-int=272 l-seq = 52  
 CTTCAATGTGCACTTCTTCGATGA**TTTTC**CTTGCTTCCGTG**TTTCAT**TGGGGG  
 CTTCAATGTGCACTTCTTCGATGA**TTTTC**CTTGCTTCCGTG**TTTCAT**TGAGCC  
 CTTCAATGTGTACTTCTTCGATGA**TTTTC**CTTGCTTCCGTG**TTTCAT**TGGGGG  
 CTTCAATGTGCACCTCTTGTGGATTTCTCTTGCTCTCGAG**TTTCAT**TGAATC  
 CTTCAATGCGCACTTATTCGGTAATTTCTCTTGCCCTCGTG**TTTCAT**TGAACCCCTTCAATGTG  
 > TTGACCAAAA Con:1 reps=11 [5450221,5450858] l-int=638 l-seq = 52  
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 TTGACCAAAAAGAGAGGAAACCTTCAAAAAGGTCAATGCAAGCAGGTTCTCT  
 TTGACCAAAAAGAGAGGAAACCTTCAAAAAGGTCAATGCAAGCAGGCTCCT  
 TTGACCAAAAAGTGA**GAAAA**CCCTTCAAAAAGGTCAATGCAAGCAGGCTCCA  
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 TTGACCAAAAAGTGA**GAAAA**CCCTTCAAAAAGGTTAATGCAAGCAGGTTCCA  
 TTGACCAAAAAGTGAGGAAACCCAGTCAAAAATGGGTAAATGCGAACAGCTTCTCTTTGACCAAAA  
 > TGTCC**TTTCAT** Con:1 reps=10 [5707911,5708389] l-int=479 l-seq = 52  
 TGTCC**TTTCAT**AAGGTTG**ATGAAG**ACCATTTTGG**ATGAAAA**GCCGAAGTGAAA

TGTCCTTCATAAGGGTGATGAAGACCATTTTGGATGAAAAGCCAAAGAGAAA  
TGTCCTTCATAAGGTGTATGAAGACCATTTTGGATGAAAAGCCTAAGAGAAT  
TGTCCTTCATAAGGGTGATGAAGACCATTTTGGATGAAATGCCGAAGAGAAA  
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TGTCCTTCATAAGGTGTATGAAGACCATTTTGGATGAAATGCCGAAGAGAAA  
TGTCCTTCATAAAGGTGATGAAGACCATTTTGGATGAAAAGCCAAAGAGATA  
TGTCCTTCATAAGGTGTATGAAGACCATTTTGAACGAAAAGCCGAAGTGAAATGTCCTTCAT

**B.cellulosilyticus (NC 014829). All tandem repeats l-seq=52**

Total 54 tandem repeats. Only 31 have one or more of the following signals or its reverse:

**GGTCATCAT**, **CAATGCT**, **ACGAAGG**, **ATGACAC**

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> GTGTATCATA Con:1 reps=6 [18432,18858] l-int=427 l-seq = 52
GTGTATCATAACGAGGCCAATGATACGCGAGAAGGTAGTGGGAACGAGATAAA
GTGTATCATAACGAGACCAATGACACGCGAGAAAGAAGTGGGAATGAAATAAA
GTGTGTCATACGAAGGCAATGACGCATATAAAAGTGGGAGGAACGGAATAAG
GTGTATCATAACGAGGCCAATGACACGCGAGAAAGTAGTAGGAACGAGATAAA
GTGTGTCATAGAAGTGCAATGACACGTGAGAATTTAGGTGGAAACGGATAAA
GTGTATCATAACGAAGGCAATGACACATATAAAAGTGGGAGGAACGGAACAAA
GTGTATCATAACGAGGCCAATGACACGCGAGAAAGTAGTGAGAATGAAATAAA
GTGTGTCATACGAGAGTAATGAAACATGAAATCTTAAGTAAAATAAAATAAGGTGTATCATA
> CACTCAACGA Con:1 reps=10 [18889,19522] l-int=634 l-seq = 52
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CACTCAACGAAGGTAATCATAGTAAGCCAATGCTACCCCAAAACCAACCCCG
CACTCAACGAAGGTAATCATAGTAAGCCAATGCTACCCCAAAACCAACCCG
CACTCAACGAAGGTAATCATAGTAAGCCAATGCTACCCCAAAACCAAACT
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CACTCAACGAAGGTAATCATAGTAAGCCAATGCTACCCCAAAACCAACCCG
CACCACAACGAAGGTAATCATAAGCAAGCAATACTACCCCAAAACTAAACCAC
CACTCAACGAAGGTAATCATAGTAAGCCAATGCCACCCCAAAACCAACCCG
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CACTCAACGAAGGTCATCATACCCAAGCATGCCGCCCCCAAAACCAATCCTCACTCAACGA
> AATAAAGTGT Con:1 reps=7 [43977,44455] l-int=479 l-seq = 52
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GATAAAGTGTGTCATAGAAGTGCAATGACACGTGAAAAAGTATGTGGAAACG
AATAAAGTGTATCATACGAAGGCAATGACGCATAAGAAAGTGGGAGGAACGG
AATAAGGTGTATCATAACGAGGCCAATGACACGCGAGAAGGTAGTGGGAACGA
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AATAAAGTGTATCATAACGAAGGCAATGATGCATAAGAAAGTGGGAGGAACGA
AATAAAGTGTGTCATATGAGGCAATGACACGCGAGAAAGAAGTGGGAACGG
AATAAAGTGTATCATAACGAAGCCAATGACACGCGAGAAAGTAGTGGGAATGAAATAAAGTGT
> CAATGCTACC Con:1 reps=5 [44519,44789] l-int=271 l-seq = 52
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CAATGCTACCCCAAAAGCTAATCCTCACTCAACGATGGTCGCCATACGCAAG
CAATGCTACCCTAAAAGCTAATCCTCACTCATCGAAGGTAATCATAGGCAAG
CAATGCTGCCCCAAAACGAATCCCACTCAACGAAGGTCATCATATGAAGC
CAATGCTACCCCAAAACTAAAACCGCTCCCAACGAAGGTCACCATATGAAGCCAATGCTACC
> AATAAAGTGT Con:1 reps=7 [112827,113253] l-int=427 l-seq = 52
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> AAGGTCATCA Con:1 reps=7 [113351,113778] l-int=428 l-seq = 52
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> CTGAAGGTCA Con:1 reps=5 [299755,299973] l-int=219 l-seq = 52  
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CTGAAGGTCATCATAGAAGCGCAATGCTTACCGAGAAAACAAGAAGAAGCAC  
CTGAAGGTCATCATAGAAGTGCAATGCATACCGAGAAAACAAGAAGAAGCATCTGAAGGTCA  
> CTGAGTGTCC Con:1 reps=4 [314448,314665] l-int=218 l-seq = 52  
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> CCCGTTAGAG Con:1 reps=5 [339003,339220] l-int=218 l-seq = 52  
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> TGTGAACG Con:1 reps=4 [465532,465698] l-int=167 l-seq = 52  
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> ACTCTATTTTC Con:1 reps=14 [494305,494992] l-int=688 l-seq = 52  
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> GTGTCATAGC Con:1 reps=8 [650939,651417] l-int=479 l-seq = 52  
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> AAGCGTGTCA Con:1 reps=19 [726998,727944] l-int=947 l-seq = 52  
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 AAGC**GTGTCATACGAAGG**CAATGCCGCATGAAAAATCGGGACGCAGGAAATA  
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 > TAGTCTGAGT Con:1 reps=8 [857866,858240] l-int=375 l-seq = 52  
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 > **GCCATC**TGCC Con:1 reps=4 [949082,949248] l-int=167 l-seq = 52  
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 > AAAGCAGAAA Con:1 reps=12 [1015273,1015855] l-int=583 l-seq = 52  
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 > AT**GTGTCATT** Con:1 reps=10 [1193617,1194303] l-int=687 l-seq = 52  
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 AT**GTGTCATT**TGGCCTTGT**ATGACAC**GGAATATTGGCTGGCCTTTTTATTTTTTC  
 AT**GTGTCATT**TCCCATGT**ATGACAC**AAGTTATTGGATTGCTTTCTAATTTTTC  
 AAG**GTGTCATT**TGCTCTTGT**ATGACAC**ACGTTATTGGAATACTTTCTAATTTTTC  
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 > AAGGTAATCA Con:1 reps=8 [2263203,2263629] l-int=427 l-seq = 52  
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> AAGGTCATCA Con:1 reps=11 [2323006,2323563] l-int=558 l-seq = 52  
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> GTATGATGAC Con:1 reps=4 [2455362,2455527] l-int=166 l-seq = 52  
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> ACACCTTTATT Con:1 reps=7 [2556156,2556529] l-int=374 l-seq = 52  
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> CTATGATGAC Con:1 reps=8 [2730527,2730954] l-int=428 l-seq = 52  
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> CCATCTTACC Con:1 reps=4 [2888411,2888577] l-int=167 l-seq = 52  
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> TGCGAGTGGA Con:1 reps=6 [3148329,3148598] l-int=270 l-seq = 52  
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> ATGATGGGAT Con:1 reps=4 [3428157,3428323] l-int=167 l-seq = 52  
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> TTTTCCGTTT Con:1 reps=9 [3704894,3705320] l-int=427 l-seq = 52  
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> TCTTACCTTC Con:1 reps=5 [3741040,3741258] l-int=219 l-seq = 52  
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> TTGCTTTCCT Con:1 reps=7 [3773627,3773949] l-int=323 l-seq = 52  
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> CACCTTACAA Con:1 reps=10 [3977361,3977891] l-int=531 l-seq = 52  
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> AAGGAATGGG Con:1 reps=11 [3996570,3997100] l-int=531 l-seq = 52  
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> TTTCTTTCTT Con:1 reps=17 [4033931,4034772] l-int=842 l-seq = 52  
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 > CTTCGTATGA Con:1 reps=6 [4069392,4069818] l-int=427 l-seq = 52  
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 CTTCGTATGATACATCTTATTTTCGGCTCTTCGGCTTTTTTCATGTGTCATTCG  
 ATTCGTATGATACATTATTCGCTCTTCGGCTTTTTTCATGTGTCATTCG  
 ATTCGTATGACACACATTATACTGGCTCCACTGCTTTTTTCACGTGTCATTGA  
 CCTCGTATGACACACATTATGCTGACTCTTCGCTTTTTTCATGTGTCATTGC  
 CTTCGTATGATACATCTTATTTTCGGCTCTTCGGCTTTTTTCGGTGTCATTGA  
 CTTCGTATGATACATCTTATTTTCGGCTCTTCGGCTTTTTTCATGTGTCATTCG  
 CTTCTGATGACACACATTATGCTGGCTCCACTGCTTTTTTCACGTGTCATTGGCTTCGTATGA  
 > GTATGATGAC Con:1 reps=11 [4072932,4073566] l-int=635 l-seq = 52  
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 > AAAGGAATGC Con:1 reps=13 [4080458,4081091] l-int=634 l-seq = 52  
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AAAGGAATGCTAGACTCGTTTCTTTTCTTTCTAACGCTCGTTACCCTTCAGAAAGGAATGC  
> CTTTCTCGGA Con:1 reps=8 [4116764,4117138] l-int=375 l-seq = 52  
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CTTTCTCGGATAGTTTTCTTTTCAGAGACTTTTTCTTCTTTGAACGGAATG  
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> CTTTCTCGGG Con:1 reps=8 [4124120,4124702] l-int=583 l-seq = 52  
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TTCCTTTCTACTAGTAAATCAGCCATGAAAGGAACACTAAACGCCTTTCGCT  
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> TAAAGGAATA Con:1 reps=19 [4365838,4366784] l-int=947 l-seq = 52  
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> CGCTATGATT Con:1 reps=9 [4408835,4409261] l-int=427 l-seq = 52  
CGCTATGATTACCGTCAACTCATTTTGGGCTCGTTCTCGGTAAGCATACAAT  
CGCTATGATTACCTTCAACTCATTTTGGACTGGATCTCGGGAAGCATACACG  
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CGCTATGATTACCGTCAACTCATTTTGGACTGGATCTCGGGAAGCATACACG  
CGCTATGATTACCGTCAACTCATTTTGGACTCGTTCTCGGGCAGCATACAAT  
CGCTATGATTACCTTCAACTCATTTTGGGCTCGTTCTCGGGAAGCATACAAA  
CGCTATGATTACCTTCAACTCATTTTGGGCTCGTTCTCGGGCAGCATACAATCGCTATGATT  
> CTATGATTAC Con:1 reps=5 [4410749,4411019] l-int=271 l-seq = 52

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 CTATGATTACCGTCAACTCATTTTGGACTCGTTCTCGGCAGCATACAAACG  
 CTATGATTACCGTCAACTCATTTTGGGCTCACTCTCAGGCAGCATAAACCTCTATGATTAC  
 > GCTCAAGGGC Con:1 reps=26 [4577046,4578356] l-int=1311 l-seq = 52  
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 ATTGCTTCTCTTTTTTCGGACAGAGTCTCTTGCTCATTACTCAACTCTGTCCGATTGCTTCTC

## **B. weihaiensis (NZ CP016020.1). All tandem repeats with repeat 21**

We find the TCGCGG signal or its reverse (CCGCGA) in most of the repeats.  
The tandem repeat with l-seq = 60 is also included. It is not related to the other tandem repeats

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> AATTCGCGGAT Con:1 reps=7 [21005,21182] l-int=178 l-seq = 21
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AATTCGCGGATAGGGCCCGGA
AACCTCGCGGATAGAACTCGGAA
AATTCGCGGATAGAGCCCGAA
AATAGCGGATAGGGCCCGGA
AATTCGCGGATAGAGCCCGAA
AATTCGCGGATAGGGCCGAGAA
AATTCGCGGATAGGGCCGAAAAATTCGCGGAT
> CGGATAGAGC Con:1 reps=10 [25511,25710] l-int=200 l-seq = 21
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CGGATAGAGCACTAAGAATTCG
CGGATAGAGCCCTGAAAATCG
CGGATAGAGCACTGAAAATCG
CGGATAGAGCACTGAAAATCG
CGGATAGAGCCCTGAAAATCG
CGGATAGAGCACCAGAAAATCG
CGGATAGAGCCCTGAAAATCG
CGGATAGAGCACCAGAGAAATCACGGATAGAGC
> AATTCGCGGAT Con:1 reps=6 [29979,30094] l-int=116 l-seq = 21
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AATTCGCGGATAGGAGGCCAAT
AATTCGCGGATAGACGTACCGG
AATTCGCGGATAGGAGGCCAAT
AATTCGCGGATAGACGCACCAGAAATTCGCGGAT
> GGAACAGATA Con:1 reps=5 [134977,135092] l-int=116 l-seq = 21
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GGAACAGATAATCCAGGTGAG
GGAACAGATAAACCAGGAGAA
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> GGAGAAGAAA Con:1 reps=8 [146949,147106] l-int=158 l-seq = 21
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GGAGAAGAAACACCGGGTGAT
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> CGAAAAATAA Con:1 reps=4 [177918,177991] l-int=74 l-seq = 21
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CGAAAAATAATAGAGTGAAAGCGAAAAATAA
> CGAAAAATAA Con:1 reps=4 [414219,414292] l-int=74 l-seq = 21
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CGAAAAATAAAGTGCCAAATCCGAAAAATAA
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ATTCGCGGAAAAGGAGTGCCGGA
ATTCGCGGAAAAGAGGAGCCTGA
ATTCGCGGAAAAGAGGAGCCGGA
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ATTCGCGGAAAAGGAGTGCCGGG
ATTCGCGGAAAAGAGGAGCCGGA
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ATCGCGGAAAGAGGAGCCGGA  
ATCGCGGAAAGGAGTGCCAGGATCGCGGAAA  
> AATTCGCGGAT Con:1 reps=6 [497918,498033] l-int=116 l-seq = 21  
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> AGAATCGCGG Con:1 reps=4 [499255,499328] l-int=74 l-seq = 21  
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> AATTCGCGGAT Con:1 reps=11 [757325,757833] l-int=509 l-seq = 21  
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AATTCGCGGAAAGAGGTGTGG  
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> TATCCGCGA Con:1 reps=7 [790108,790244] l-int=137 l-seq = 21  
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TATCCGCGAATTATGGTTGCTG  
TATCCGCGATTTTAGGTGTTG  
TATCCGCGAATTATGGTTGCTC  
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> AATTCGCGGAT Con:1 reps=5 [802803,802897] l-int=95 l-seq = 21  
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> ACAGCAAGAG Con:1 reps=5 [1762840,1763090] l-int=251 l-seq = 60  
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ACAGCAAGAGAGCATGACAAGGAATTTTACCAAGAGATTGGTCAAAAGGTTGGAGAAAAA  
ACAGCAAGAGAGCATGATAAGGAGTACTATCAGGAAATTGGCCAAAAGGTTGGAGAAAAA  
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> TATCCGCGA Con:1 reps=15 [2579124,2579428] l-int=305 l-seq = 21  
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TATCCGCGATTCTGGGCACTC  
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TATCCGCGATTATGAGTG TTC  
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TATCCGCGATTGTGAGTGCTC  
TATCCGCGATTATGAGTG TTC  
TATCCGCGATTCTGAGCACTC  
TATCCGCGATTCTGGGCACTC  
TATCCGCGATTCTGGGCACTC  
TATCCGCGATTCTGAGTG TTC  
TATCCGCGATAATGGGCGCTC  
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> CTATCCGCGA Con:1 reps=7 [2862732,2862868] l-int=137 l-seq = 21  
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> ATCGCGGATA Con:1 reps=12 [2986923,2987185] l-int=263 l-seq = 21  
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ATCGCGGATAGAGCACCCCTTA  
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ATCGTGATAGAGCTCCCTTA  
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> TCCGCGATT Con:1 reps=11 [3155990,3156787] l-int=798 l-seq = 21  
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TCCGCGATT TTTGGGTGTTCTA  
TCCGCGATT TTTCCGCCTCTCTT  
TCCGCGATT TTTTCGGTGTTCTA  
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CCAATTTTGAGTCTTTTTAAGAATTCCTAGCTAAATTAGGGTGAATGATCCTTTTCTGAGGCCCTATGCTTGTCAAAACATCCATTTAGAAAGAA  
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TCCGCGATT TTTTGGGTGTTCTA  
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> TTTATTTTCG Con:1 reps=4 [3221394,3221467] l-int=74 l-seq = 21  
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> TATCCGCGAT Con:1 reps=5 [3277057,3277151] l-int=95 l-seq = 21  
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> CTTTCCGCGA Con:1 reps=16 [3348404,3348992] l-int=589 l-seq = 21  
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> ATCGCGGATA Con:1 reps=6 [3362340,3362455] l-int=116 l-seq = 21  
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> TTTATTTTCG Con:1 reps=4 [3505433,3505526] l-int=94 l-seq = 21  
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> TCCGCGATTA Con:1 reps=12 [3509098,3509360] l-int=263 l-seq = 21  
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> TTTATTTTCG Con:1 reps=6 [3543299,3543414] l-int=116 l-seq = 21  
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> TTTATTTTCG Con:1 reps=5 [3636446,3636561] l-int=116 l-seq = 21  
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> TTTATTTTCG Con:1 reps=5 [4154491,4154583] l-int=93 l-seq = 21
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> TTTATTTTCG Con:1 reps=4 [4176659,4176732] l-int=74 l-seq = 21
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> AATTCGCGGAT Con:1 reps=10 [4295617,4296106] l-int=490 l-seq = 21
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