```
                                 (((((((..((((.........)))).(((((((...)))))))).....(((((.....
chr-A9.trna16-Thr-TGT    GCCCGUAUAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUUCGAU 58
chr-A6.trna77-Thr-TGT    GCCCUUAUAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUUCGAU 58
chr-A2.trna64-Thr-TGT    GCCCGUAUAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUUCGAU 58
chr-A4.trna39-Thr-TGT    GCCCGUAUAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUUCGAU 58
chr-A8.trna56-Thr-TGT    GCCCGUAUAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUUCGAU 58
chr-A6.trna30-Thr-TGT    GCCCGUAUAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUUCGAU 58
chr-A3.trna104-Thr-TGT   GCCCGUAUAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUUCGAU 58
chr-A3.trna98-Thr-TGT    GCCCGUAUAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUUCGAU 58
chr-A9.trna6-Thr-TGT     GCCCGUAUAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUUCGAU 58
chr-A3.trna45-Thr-TGT    GCCCGUAUAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUUCGAU 58
chr-A10.trna8-Thr-TGT    GCCCGUAUAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUUCGAU 58
chr-A9.trna25-Thr-TGT    GCCCUUAUAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUUCAAU 58
chr-A9.trna96-Thr-TGT    GCCCGUAUAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCAUAGUUCGAU 58
chr-A3.trna9-Thr-TGT     GCCCGUACAGCUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUUAGAU 58
chr-A7.trna51-Thr-CGT    GCCUCCGUAGCAUAGU--GGUAUUGCGUUCGCUUCGUAAGCGAAAGGCCGCGAGUUCGAU 58
chr-A3.trna62-Thr-CGT    GCCUCCGUAGCAUAGU--GGUAUUGCGUUCGCUUCGUAAGCGAAAGGCCGCGAGUUCGAU 58
chr-A7.trna75-Thr-CGT    GCCUCCGUAGCAUAGU--GGUAUUGCGUUCGCUUCGUAAGCGAAAGGCCGCGAGUUCGAU 58
chr-A8.trna64-Thr-CGT    GCCUCCGUAGCAUAGU--GGUAUUGCGUUCGCUUCGUAAGCGAAAGGCCGCGAGUUCGAU 58
chr-A9.trna79-Thr-CGT    GCCUCCGUAGCAUAGU--GGUAUUGCGUUCGCUUCGUAAGCGAAAGGCCGCGAGUUCGAU 58
chr-A6.trna19-Thr-CGT    GCCUCCGUAGCAUAGU--GGUAUUGCGUUCGCUUCGUAAGCGAAAGGCCGCGAGUUCGAU 58
chr-A2.trna102-Thr-CGT   GCCUCCGUAGCAUAGU--GGUAUUGCGUUCGCUUCGUAAGCGAAAGGCUGCGAGUUCGAU 58
chr-A2.trna98-Thr-CGT    GCCUCCGUAGCAUAGU--GGUAUUGCGUUCGCUUCGUAAGCGAAAGGCCGCGACUUCGAU 58
chr-A9.trna147-Thr-CGT   GCCUCCGUAGCAUAGU--GGUAUUGCGUUCGCUUCGUAAGCGAAAGGUCGUGAGUUCGAU 58
chr-A6.trna45-Thr-CGT    GCCUCCGUAGCAUAGU--GGUAUUGCGUUCGCUUCGUAAGCGAAAGGUCGUGAGUUCGAU 58
chr-A2.trna84-Thr-CGT    GCCUACGUAGCAUAGU--GGUAUUGCGUUCGCUUCGUAAGCGAAAGGUCGUGAGUUCGAU 58
chr-A1.trna55-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCAAC 60
chr-A4.trna9-Thr-AGT     GCUCUCGUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCAAC 60
chr-A1.trna62-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCAAC 60
chr-A1.trna63-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCAAC 60
chr-A2.trna50-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCAAC 60
chr-A3.trna70-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCAAC 60
chr-A3.trna109-Thr-AGT   GCUUUCAUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCAAC 60
chr-A4.trna45-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCAAC 60
chr-A9.trna33-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCAAC 60
chr-A5.trna11-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCAAC 60
chr-A5.trna62-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCAAC 60
chr-A6.trna54-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCAAC 60
chr-A1.trna73-Thr-AGT    GCUCUCGUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCGAC 60
chr-A3.trna82-Thr-AGT    GCUCUCGUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCGAC 60
chr-A5.trna27-Thr-AGT    GCUCUCGUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCGAC 60
chr-A8.trna12-Thr-AGT    GCUUUCAUAGCUCAGUUGGUUAGAGCGCCCGUUUAGUAAGCGGGAGGUCUUGAGUUCAAC 60
chr-A3.trna69-Thr-AGT    GCUCUCGUAGCUCAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCGAC 60
chr-A1.trna20-Thr-AGT    GCUCUCGUAGCUUAGUUGGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCAAC 60
chr-A8.trna116-Thr-AGT   GCUUUCAUAGCUCAGUUUGUUAGAGCACCCGUUUAGUAAGCGGGAGGUCUUGAGUUCAAC 60
chr-A9.trna43-Thr-AGT    CUGACCUUAUCUCAGUU-GGUAGAGCAGAAGACUAGUUAUCUUUAGGUCGUUGGUUUGAG 59
chr-A4.trna65-Thr-TGT    GCCUGUGUAGCUCAGU--GGUAGAGCAUCAGUCUUGUAAACUGAAGGUCCACAGUUCGAU 58
chr-A9.trna141-Thr-TGT   ACCCGUAUAGCUCAGU--GGUAGAGCG--AGUCUUGUAAACUGAAGGUCCAUAGUUCGAU 56
chr-A8.trna119-Thr-AGT   GCUCUCGUAGCUCAGUUGGUUAGAACACCCGUUUAGUGAGCGGGAG--------UUCGAC 52
                         .........10........20........30........40........50.........

                         .)))))))))))).
chr-A9.trna16-Thr-TGT    CCUGCGUGUGGGCA 72
chr-A6.trna77-Thr-TGT    CCUGCGUGAGGGCA 72
chr-A2.trna64-Thr-TGT    CCUGCGUGUGGGCA 72
chr-A4.trna39-Thr-TGT    CCUGCGUGUGGGCA 72
chr-A8.trna56-Thr-TGT    CCUGCGUGUGGGCA 72
chr-A6.trna30-Thr-TGT    CCUGCGUGUGGGCA 72
chr-A3.trna104-Thr-TGT   CCUGCGUGUGGGCA 72
chr-A3.trna98-Thr-TGT    CCUGCGUGUGGGCA 72
chr-A9.trna6-Thr-TGT     CCUGCGUGUGGGCA 72
chr-A3.trna45-Thr-TGT    CCUGCGUGUGGGCA 72
chr-A10.trna8-Thr-TGT    CCUGUGUGUGGGCA 72
chr-A9.trna25-Thr-TGT    CCUGCGUGAGGGCA 72
chr-A9.trna96-Thr-TGT    CCUGUGUGUGGGCA 72
chr-A3.trna9-Thr-TGT     CCUUCGUGUGGACA 72
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chr-A7.trna75-Thr-CGT    CCUCGCCGGGGGCU 72
chr-A8.trna64-Thr-CGT    CCUCGCCGGGGGCU 72
chr-A9.trna79-Thr-CGT    CCUCGCCGGGGGCU 72
chr-A6.trna19-Thr-CGT    CCUCGCCGGGGGCU 72
chr-A2.trna102-Thr-CGT   CCUCGCCGGGGGCU 72
chr-A2.trna98-Thr-CGT    CCUCGCCGGGGGCU 72
chr-A9.trna147-Thr-CGT   CCUCGCCGGGGGCU 72
chr-A6.trna45-Thr-CGT    CCUCGCCGGGGGCU 72
chr-A2.trna84-Thr-CGT    CCUCAUCGUAGGCU 72
chr-A1.trna55-Thr-AGT    UCUCAAUGAAAGCA 74
chr-A4.trna9-Thr-AGT     UCUCAACGAGAGCA 74
chr-A1.trna62-Thr-AGT    UCUCAAUGAAAGCA 74
chr-A1.trna63-Thr-AGT    UCUCAAUGAAAGCA 74
chr-A2.trna50-Thr-AGT    UCUCAAUGAAAGCA 74
chr-A3.trna70-Thr-AGT    UCUCAAUGAAAGCA 74
chr-A3.trna109-Thr-AGT   UCUCAAUGAAAGCA 74
chr-A4.trna45-Thr-AGT    UCUCAAUGAAAGCA 74
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chr-A5.trna62-Thr-AGT    UCUCAAUGAAAGCA 74
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chr-A1.trna73-Thr-AGT    UCUCAACGAGAGCA 74
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chr-A5.trna27-Thr-AGT    UCUCAACGAGAGCA 74
chr-A8.trna12-Thr-AGT    UCUCAAUGAAAGCA 74
chr-A3.trna69-Thr-AGT    UCUCAUCGAGAGCA 74
chr-A1.trna20-Thr-AGT    UCUCAACGAAAGCA 74
chr-A8.trna116-Thr-AGT   UCUCAAUGAAAGCA 74
chr-A9.trna43-Thr-AGT    UCCGGCAGGUCUGA 73
chr-A4.trna65-Thr-TGT    CUUGCGUUUUGGCA 72
chr-A9.trna141-Thr-TGT   CCUGCGUGUGGGCA 70
chr-A8.trna119-Thr-AGT   UCUCAACGAGAGCA 66
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