```
                                (((((((..(((...........))).(((((.......)))))).(((((.........
chr-2.trna59-Ser-GCT     GGAGAGAUGGCUGAGUGGACUAAGCGGCGGAUUGCUAAUCCGUUGUACGAGU-----UA 55
chr-11.trna80-Ser-GGA    GGAGAGAUGGCCGAGUGGUUCAAGGUGUAGUAUUGGAAUUGCUAUGCAGGCUU-----U- 54
chr-3.trna18-Ser-GGA     GGAGAGAUGGCCGAGUGGUUCAAGGCGUAGCAUUGGAACUGCUAUGUAGGCUU-----U- 54
chr-10.trna19-Ser-GGA    GGAGAGAUGGCCGAGUGGUUCAAGGCGUAGCAUUGGAACUGCUAUGUAGGCUU-----U- 54
chr-10.trna20-Ser-GGA    GGAGAGAUGGCCGAGUGGUUCAAGGCGUAGCAUUGGAACUGCUAUGUAGGCUU-----U- 54
chr-1.trna62-Ser-GGA     GGAGAGAUGGCCGCGUGGUUCAAGGCGUAGCAUUGGAACUGCUAUGUAGGCUU-----U- 54
chr-9.trna12-Ser-TGA     GGAUGGAUGUCUGAGCGGUUGAAAGAGUCGGUCUUGAAAACCGAAGUCUUGAU-----A- 54
chr-1.trna29-Ser-CGA     GUCGAUAUGUCCGAGUGGUU-AAGGAGACAGACUCGAAAUCUGU-UGGGCUUU------- 51
chr-2.trna113-Ser-CGA    GUCGAUAUGUCCGAGUGGUU-AAGGAGACAGACUCGAAAUCUGU-UGGGCUUU------- 51
chr-2.trna6-Ser-CGA      GUCGAUAUGUCCGAGUGGUU-AAGGAGACAGACUCGAAAUCUGU-UGGGCUCU------- 51
chr-2.trna7-Ser-CGA      GUCGAUAUGUCCGAGUGGUU-AAGGAGACAGACUCGAAAUCUGU-UGGGCUCU------- 51
chr-5.trna31-Ser-TGA     GUCGAUAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGCUAC------- 51
chr-1.trna51-Ser-TGA     GUCGAUAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGCUUC------- 51
chr-2.trna66-Ser-TGA     GUCGAUAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGCUUC------- 51
chr-2.trna67-Ser-TGA     GUCGAUAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGCUUC------- 51
chr-10.trna3-Ser-TGA     GUCGAUAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGCUUC------- 51
chr-10.trna30-Ser-GCT    GUCGCUUUGGCCGAGUGGUU-AAGGCGUGUGCCUGCUAAGUACA-UGGGGUUU------- 51
chr-2.trna80-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGUGCCUGCUAAGUACA-UGGGGUUU------- 51
chr-7.trna35-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGUGCCUGCUAAGUACA-UGGGGUUU------- 51
chr-8.trna2-Ser-GCT      GUCGCUUUGGCCGAGUGGUU-AAGGCGUGUGCCUGCUAAGUACA-UGGGGUUU------- 51
chr-2.trna82-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGUGCCUGCUAAGUACA-UGGGGUUU------- 51
chr-6.trna56-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGUGCCUGCUAAGUACA-UGGGGUUU------- 51
chr-6.trna55-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGUGCCUGCUAAGUACA-UGGGGUUU------- 51
chr-6.trna18-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGUGCCUGCUAAGUACA-UGGGGUUU------- 51
chr-1.trna32-Ser-AGA     GUGGGCGUGCCGGAGUGGUU-AUCGGGCAUGGCUAGAAAUCAUG-UGGGCUCU------- 51
chr-4.trna39-Ser-AGA     GUGGACGUGCCGGAGUGGUU-AUCGGGCAUGACUAGAAAUCAUG-UGGGCUCU------- 51
chr-5.trna44-Ser-AGA     GUGGACGUGCCGGAGUGGUU-AUCGGGCAUGACUAGAAAUCAUG-UGGGCUCU------- 51
chr-7.trna41-Ser-AGA     GUGGACGUGCCGGAGUGGUU-AUCGGGCAUGACUAGAAAUCAUG-UGGGCUCU------- 51
chr-11.trna14-Ser-AGA    GUGGGCGUGCCGGAGUGGUU-AUCGGGCAUGACUAGAAAUCAUG-UGGGCUCU------- 51
chr-2.trna96-Ser-AGA     GUGGGCGUGCCGGAGUGGUU-AUCGGGCAUGACUAGAAAUCAUG-UGGGCUCU------- 51
chr-6.trna60-Ser-AGA     GUGGGCGUGCCGGAGUGGUU-AUCGGGCAUGACUAGAAAUCAUG-UGGGCUCU------- 51
chr-6.trna61-Ser-AGA     GUGGGCGUGCCGGAGUGGUU-AUCGGGCAUGACUAGAAAUCAUG-UGGGCUCU------- 51
chr-3.trna25-Ser-AGA     GUGGUCGUGCCGGAGUGGUU-AUCGGGCAUGACUAGAAAUCAUG-UGGGCUCU------- 51
chr-6.trna33-Ser-TGA     AGAGAGAUGGCUGAGUGGUUGAUAGCCCCGGUCUUGAAAACCGGUAUAGUUUUGAACAAA 60
chr-8.trna15-Ser-TGA     GGAGAGAUGGCUGAGUGGUUGAUAGCCUCGGUCUUGAAAAUCGGUAUAGUUUUGAACAAA 60
chr-8.trna21-Ser-TGA     AGAGGGAUGGCUGAAUGGUUGAUAGCUUCGGUCUUGAAAACCGGUAUAGUUUUGAACAAA 60
                         .........10........20........30........40........50.........

                         ..)))))).(((((.......)))))))))))).
chr-2.trna59-Ser-GCT     UUCGUACCGAGGGUUCGAAUCCCUCUCUUUCCG 88
chr-11.trna80-Ser-GGA    UGUUUAUUGAGGGUUCGAAUCCCUCUCUUUUCG 87
chr-3.trna18-Ser-GGA     UGUUUACCGAGGGUUCGAAUCCCUCUCUUUCCG 87
chr-10.trna19-Ser-GGA    UGUUUACCGAGGGUUCGAAUCCCUCUCUUUCCG 87
chr-10.trna20-Ser-GGA    UGUUUACCGAGGGUUCGAAUCCCUCUCUUUCCA 87
chr-1.trna62-Ser-GGA     UGUUUACCGAGGGUUCGAAUCCCUCUCUUUCCG 87
chr-9.trna12-Ser-TGA     GGAAUACCGGGGGUUCGAAUCCCUCUCCAUCCG 87
chr-1.trna29-Ser-CGA     --GCCUGCGCAGGUUCGAAUCCUGCUGUCGACG 82
chr-2.trna113-Ser-CGA    --GCCUGCGCAGGUUCGAAUCCUGCUGUCGACG 82
chr-2.trna6-Ser-CGA      --GCCUGCGCAGGUUCGAAUCCUGCUGUCGACG 82
chr-2.trna7-Ser-CGA      --GCCUGCGCAGGUUCGAAUCCUGCUGUCGACG 82
chr-5.trna31-Ser-TGA     --GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-1.trna51-Ser-TGA     --GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-2.trna66-Ser-TGA     --GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-2.trna67-Ser-TGA     --GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-10.trna3-Ser-TGA     --GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-10.trna30-Ser-GCT    --CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-2.trna80-Ser-GCT     --CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-7.trna35-Ser-GCT     --CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-8.trna2-Ser-GCT      --CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-2.trna82-Ser-GCT     --CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-6.trna56-Ser-GCT     --CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-6.trna55-Ser-GCT     --CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-6.trna18-Ser-GCT     --CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-1.trna32-Ser-AGA     --GCCCGCGCAGGUUCGACUCCUCCCGCUCACG 82
chr-4.trna39-Ser-AGA     --GCCCGCGCAGGUUCGAAUCCUGCCGUCCACG 82
chr-5.trna44-Ser-AGA     --GCCCGCGCAGGUUCGAAUCCUGCCGUCCACG 82
chr-7.trna41-Ser-AGA     --GCCCGCGCAGGUUCGAAUCCUGCCGUCCACG 82
chr-11.trna14-Ser-AGA    --GCCCGCGCAGGUUCGAAUCCUGCCGCCCACG 82
chr-2.trna96-Ser-AGA     --GCCCGCGCAGGUUCGAAUCCUGCCGCUCACG 82
chr-6.trna60-Ser-AGA     --GCCCGCGCAGGUUCGAAUCCUGCCGCUCACG 82
chr-6.trna61-Ser-AGA     --GCCCGCGCAGGUUCGAAUCCUGCCGCUCACG 82
chr-3.trna25-Ser-AGA     --GCCCGCGCAGGUUCGAAUCCUGCCGACCACG 82
chr-6.trna33-Ser-TGA     GAACUAUCGAGGGUUCGAAUCCCUCUCUCUCCU 93
chr-8.trna15-Ser-TGA     GAACUAUCGAGGGUUCGAAUCCCUCUCUCUCCU 93
chr-8.trna21-Ser-TGA     GAAUUAUCGAGGGUUCGAAUCCCUCUCUCUCCU 93
                         .........70........80........90..
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