```
                                 (((((.((..(((...........)))(((((.......)))))).)(((.........
chr-5.trna258-Ser-TGA    GUCGA-UAUGUCCGAGUGGUU-AAGGAGACAGACUUGAACUCUGU-UGGGC------UCC 51
chr-8.trna22-Ser-TGA     GUCGA-UAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGC------UUC 51
chr-8.trna139-Ser-TGA    GUCGA-UAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGC------UUC 51
chr-16.trna128-Ser-TGA   GUCGA-UAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGC------UUC 51
chr-8.trna143-Ser-TGA    GUCGA-UAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGC------UUC 51
chr-8.trna155-Ser-TGA    GUCGA-UAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGC------UUC 51
chr-10.trna87-Ser-TGA    GUCGA-UAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGC------UUC 51
chr-12.trna218-Ser-TGA   GUCGA-UAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGC------UUC 51
chr-12.trna219-Ser-TGA   GUCGA-UAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGC------UUC 51
chr-1.trna138-Ser-TGA    GUCGA-UAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGC------UUU 51
chr-10.trna85-Ser-TGA    GUCGA-UAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGC------UUU 51
chr-8.trna142-Ser-TGA    GUCGA-UAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGC------UAC 51
chr-8.trna157-Ser-TGA    GUCGA-UAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGC------UAC 51
chr-9.trna64-Ser-TGA     GUCGG-UAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGU------UUC 51
chr-1.trna26-Ser-TGA     GUUGA-UAUGUCCGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGC------UUU 51
chr-10.trna86-Ser-TGA    GUCGA-UAUGUCCGUGUGGUU-AAGGAGACAAACUUGAAAUCUGU-UGGGC------UUC 51
chr-8.trna156-Ser-TGA    GUCGA-UAUGUCCGAGUGGUU-AAGGGGACACACUUGAAAUCUGU-UGGGC------UUU 51
chr-8.trna141-Ser-TGA    GUCGA-UAUGUCCGAGUGGCU-AAGGAGACAGACUUGAAAUCUGU-UGGGC------UUC 51
chr-12.trna226-Ser-TGA   GUCAA-UAUGUUCGAGUGGUU-AAGGAGAUAGACUUGAAAUCUAU-UGGGC------UUU 51
chr-12.trna231-Ser-TGA   GUCAA-UAUGUCCGAGUGGUU-AAGGAGAUAGACUUGAAAUCUAU-UGGGC------UUU 51
chr-12.trna227-Ser-TGA   GUCAA-UAUGUCCGAGUGGUU-AAGGAGAUAGACUUGAAAUCUAU-UGGGC------UUU 51
chr-12.trna237-Ser-TGA   GUCAA-UAUGUCCGAGUGGUU-AAGGAGAUAGACUUGAAAUCUAU-UGGGC------UUU 51
chr-12.trna243-Ser-TGA   GUCAA-UAUGUCUGAGUGGUU-AAGGAGAUAGACUUGAAAUCUAU-UGGGC------UUU 51
chr-10.trna26-Ser-TGA    GUCAA-UAUGUCUGAGUGGUU-AAGGAAACAGACUUGAAAUCUGU-UGGGC------UUU 51
chr-12.trna239-Ser-TGA   GUCAA-UAUGUUCGAGUGGUU-AAGGAGAUAGACUUGAAAUCUAU-UGGGC------AUU 51
chr-7.trna75-Ser-TGA     GUCGA-UAUGUCAGAGUGGUU-AAGGAGACAGACUUGAAAUCUGU-UGGGC------UUU 51
chr-12.trna242-Ser-TGA   GUCAA-UAUGUUCGAGUGGUU-AAGGAGAUAGACUUGAAAUCUAU-UGGGC------UUU 51
chr-12.trna228-Ser-TGA   GUCAA-UAUGUCCGAGUGGUU-AAGGAGAUAAACUUGAAAACUGU-UGGGC------UUU 51
chr-5.trna101-Ser-TGA    GUGGU-CGUGCCAGAGUGGUU-AUCGGUAUGACUUGAAAUCAUG-UGGGC------UUU 51
chr-12.trna240-Ser-TGA   CGUCAAUAUGUCCGAGUUGUU-AAGGAGAUAGACUUGAAAUCUAU-UGGGC------UAU 52
chr-5.trna100-Ser-TGA    GUGGU-CGUACCAGAGUGGUU-AUCGGGCAUGACUUGAAAUCAUG-U-GGC------UUU 50
chr-10.trna2-Ser-TGA     GUUGG-UUUGCUCAAGAGGUU-AAGGGGA-AGACUUGAGAUCUUU-UGCAC-----ACAA 51
chr-1.trna32-Ser-TGA     GGAGA-AAUGGCUGAGUGGUUGAUAGCCCUGGUCUUGAAAACCGGUAUAGUUUUGAACAA 59
chr-16.trna81-Ser-TGA    GGAUG-GAUGUCUGAGCGGUUUAAAGAGUCGGUCUUGAAAACCGAAGUAUU---GAUAGG 56
chr-2.trna16-Ser-TGA     GCCCU-UAUAGCUCAGUGGU--AGAGCGUCAGUCUUGAAAACUGA-----------AG 44
                         .........10........20........30........40........50.........

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chr-5.trna258-Ser-TGA    GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-8.trna22-Ser-TGA     GCCCGCGCAGGUUCGAACCCUUCUGUCGACG 82
chr-8.trna139-Ser-TGA    GCCCGCGCAGGUUCGAACCCUUCUGUCGACG 82
chr-16.trna128-Ser-TGA   GCCCGCGCAGGUUCGAACCCUUCUGUCGACG 82
chr-8.trna143-Ser-TGA    GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-8.trna155-Ser-TGA    GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-10.trna87-Ser-TGA    GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-12.trna218-Ser-TGA   GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-12.trna219-Ser-TGA   GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-1.trna138-Ser-TGA    GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-10.trna85-Ser-TGA    GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-8.trna142-Ser-TGA    GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-8.trna157-Ser-TGA    GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-9.trna64-Ser-TGA     GCCCGCGCAGGUUCAAAUCCUGCUGCCGACG 82
chr-1.trna26-Ser-TGA     GCCUGCGCAGGUUCGAAUCCUGCUGUCGACG 82
chr-10.trna86-Ser-TGA    GCCUACGCAGGUUCAAACUUUGUUGUCGAUG 82
chr-8.trna156-Ser-TGA    GCCCGCGCAGGUUCGAACCCUGCCGUCGACG 82
chr-8.trna141-Ser-TGA    GCCAGCGCAGGUUCGAACCCUGCUCUCGACG 82
chr-12.trna226-Ser-TGA   GCCUUCGCAGGUUUGAAUCCUGCUAUUGACG 82
chr-12.trna231-Ser-TGA   GCCUGUGCAGGUUUGAAUCCUGCUAUUGACG 82
chr-12.trna227-Ser-TGA   GCCUGCGCAGGUUUGAAUCCUGCUAUUGACG 82
chr-12.trna237-Ser-TGA   GCCUGCGCAGGUUUAAAUCCUGCUGUUGACG 82
chr-12.trna243-Ser-TGA   GCUUGCGCAAGUUUGAAUCUUGCUGUUGACG 82
chr-10.trna26-Ser-TGA    GCCUGUGCAGGUUCAAAUCUUGCUGUUGACG 82
chr-12.trna239-Ser-TGA   GCCUGCGUAGGUUCAAAUCUUGCUGUUGACA 82
chr-7.trna75-Ser-TGA     GCCCGUGUAGGUUCGGACCCUGCUGUCCACG 82
chr-12.trna242-Ser-TGA   UCCUGCGCAGGUUCGAAUCUUGUUAUUGACG 82
chr-12.trna228-Ser-TGA   GCCUACGCAGGUUCAAAUCCUGCUGUUCACG 82
chr-5.trna101-Ser-TGA    GCCUGCGUAGGUUCGAAUCCUGCCGACCACG 82
chr-12.trna240-Ser-TGA   ACCUGCGCAGGUUCAAAUCCUG--GUGACGU 81
chr-5.trna100-Ser-TGA    GCCCUCGCAGGUUUGAAUCCUACCGACAACG 81
chr-10.trna2-Ser-TGA     GUGCGCAUGGGUUUGAACCCCAUAGCUAGCA 82
chr-1.trna32-Ser-TGA     ACUAUCGAGGGUUCGAAUCCCUCUCUCCUCU 90
chr-16.trna81-Ser-TGA    AAUACCGGGGGUUCGAAUCCCUCUCCAUCCG 87
chr-2.trna16-Ser-TGA     GUCUGU---AGUUCGAUCCUGCAUGGGGGCA 72
                         .........70........80........90
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