```
                                 ((((((.........(((.........))).(((((.......))))).(((((.
chr-21.trna10-Ser-TGA    GUCGAUA--------UGUCCGAGUGGUUAA-GGAGACAGACUUGAAAUCUGU-UGGGCAC 50
chr-21.trna63-Ser-TGA    GUCGAUA--------UGUCCGAGUGGUUAA-GGAGACAGACUUGAAAUCUGU-UGGGCAC 50
chr-26.trna45-Ser-TGA    GUCGAUA--------UGUCCGAGUGGUUAA-GGAGACAGACUUGAAAUCUGU-UGGGCAU 50
chr-7.trna12-Ser-TGA     GUCGAUA--------UGUCCGAGUGGUUAA-GGAGACAGACUUGAAAUCUGU-UGGGCAU 50
chr-8.trna39-Ser-TGA     GUCGAUA--------UGUCCGAGUGGUUAA-GGAGACAGACUUGAAAUCUGU-UGGGCAU 50
chr-10.trna97-Ser-TGA    GUCGAUA--------UGUCCGAGUGGUUAA-GGAGACAGACUUGAAAUCUGU-UGGGCUA 50
chr-25.trna24-Ser-TGA    GUCGAUA--------UGUCCGAGUGGUUAA-GGAGACAGACUUGAAAUCUGU-UGGGCUA 50
chr-17.trna26-Ser-TGA    GUCGAUA--------UGUCCGAGUGGUUAA-GGAGACAGACUUGAAAUCUGU-UGGGCUA 50
chr-17.trna60-Ser-TGA    GUCGAUA--------UGUCCGAGUGGUUAA-GGAGACAGACUUGAAAUCUGU-UGGGCUA 50
chr-14.trna55-Ser-TGA    GUCGAUA--------UGUCCGAGUGGUUAA-GGAGACAGACUUGAAAUCUGU-UGGGCUU 50
chr-14.trna56-Ser-TGA    GUCGAUA--------UGUCCGAGUGGUUAA-GGAGACAGACUUGAAAUCUGU-UGGGCUU 50
chr-10.trna1-Ser-TGA     GUCGAUA--------UGUCCGAGUGGUUAA-GGAGACAGACUUGAAAUCUGU-UGGGCUA 50
chr-9.trna31-Ser-TGA     GUCGAUA--------UGUCCGAGUGGUUAA-GGAGACAGACUUGAAAUCUGU-UGGGCAU 50
chr-12.trna40-Ser-TGA    GUCGAUA--------UGUCCGAGUGGUUUA-GGAGACAGACUUGAAAUCUGU-UGGGCAC 50
chr-26.trna34-Ser-TGA    GUUGAUA--------UGUCCGAGUGGUUAA-GGAGGCAGACUUGAAAUCUGU-UAGGCAC 50
chr-23.trna7-Ser-TGA     GUCGAUA----------UCUGAGUGGUUAA-GGAGACAGACUUGAAAUCUGU-UGGGCUA 48
chr-20.trna33-Ser-TGA    GUCGAUA--------UGUCCGGCUGGUUAA-GGAGACGGACUUGAAAUCUGA-UGGGCAC 50
chr-14.trna52-Ser-TGA    ACCAGCAAUGUCGAUUUUCCGCGUGGUUAA-CGAGGCAGACUUGAAAUCUGU-UGGACUG 58
chr-24.trna9-Ser-TGA     GAAGAGA--------UGGCUGAGUGGUUGAUAGCUCCUGUCUUGAAAACUAGUAUAGUUC 52
chr-3.trna36-Ser-TGA     GGAGAGA--------UGGCUGAGUGGUUGAUAGCUUCGGUCUUGAAAACCGAUAUAGUUC 52
chr-4.trna3-Ser-TGA      GGAGAGA--------UGGCUGAGUGGUUGAUAGCUUCGGUCUUGAAAACCGAUAUAGUUC 52
chr-11.trna11-Ser-TGA    GGAGAGA--------UGGCUGAGUGGUUGAUAGCUCUGGUCUUGAAAACCGGUAUAGUUC 52
chr-10.trna96-Ser-TGA    GGAGAGA--------UGGCUGAGUGGUUGAUAGCUCCUGUCUUGAAAACUGGUAUUGUUC 52
chr-24.trna18-Ser-TGA    GGAGAGA--------UGACUAAGUGGUUGAUAGCUCCGGCCUUGAAAAUCGGUAUAGUUC 52
chr-15.trna1-Ser-TGA     GGAGAGA--------UAGUUGAGUGGUUGAUAGCUCUGGUCUUGAAAACUGGUAUAGUUC 52
                         .........10........20........30........40........50.........

                         .........))))))).(((((.......)))))))))))).
chr-21.trna10-Ser-TGA    ---------UGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-21.trna63-Ser-TGA    ---------UGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-26.trna45-Ser-TGA    ---------UGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-7.trna12-Ser-TGA     ---------UGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-8.trna39-Ser-TGA     ---------UGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-10.trna97-Ser-TGA    ---------CGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-25.trna24-Ser-TGA    ---------CGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-17.trna26-Ser-TGA    ---------CGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-17.trna60-Ser-TGA    ---------CGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-14.trna55-Ser-TGA    ---------CGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-14.trna56-Ser-TGA    ---------CGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-10.trna1-Ser-TGA     ---------GGCCCGCGCAGGUUCGAACCCUGCUAUCGACG 82
chr-9.trna31-Ser-TGA     ---------UGCCCGCGCAGGUUCGAACCCUCCUGUUGAUG 82
chr-12.trna40-Ser-TGA    ---------UGCCCGCGCACGUUCGAACCCUGAUGUCGACG 82
chr-26.trna34-Ser-TGA    ---------UGCCCCCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-23.trna7-Ser-TGA     ---------CGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 80
chr-20.trna33-Ser-TGA    ---------UGCCCGCGCAGAUUCGUACCCUGCUGUCGACG 82
chr-14.trna52-Ser-TGA    ---------CGGCCGCGCAAGUUCGAUCCCUGCUGCCGACG 90
chr-24.trna9-Ser-TGA     GAAACAAAGAACUAUUGAGGGUUCGAAUCCCUCUCUCUCCU 93
chr-3.trna36-Ser-TGA     GAAACAAAGAACUAUCGAAGGUUCGAAUCCCUCUCUCUCCU 93
chr-4.trna3-Ser-TGA      GAAACAAAGAACUAUCGAAGGUUCGAAUCCCUCUCUCUCCU 93
chr-11.trna11-Ser-TGA    GAAACAGAGAACUAUCGAGGGUUUGAAUCCCUCUCUCUCCU 93
chr-10.trna96-Ser-TGA    AAAACAAAGAACUAUUAAGGGUUCGAAUCCUUCUCUCUCCU 93
chr-24.trna18-Ser-TGA    GAAACAAAUUACUAUUGAGGGUUCAAAUCCCUCUCUCUCCU 93
chr-15.trna1-Ser-TGA     GAAACAAAUAGCUAUUGAGGGUUCGAAUACCUCUCUCUUCU 93
                         .........70........80........90.........
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