```
                                 (((((((.........(((.............))).(((((.......))))))..(((
chr-3.trna41-Ser-GGA             GGAAAGAUG--------GCUGAGUGGU----UGAAGGCAUAGCAUUGGAACUGCUACAUA 48
chr-7.trna26-Ser-GGA             GGAAAGUUG--------GCCGAGUGGU----UGAAGGUGUAGCAUUGGAACUGCUAUGUA 48
chr-1.trna50-Ser-TGA             GGAUGGAUG--------UCUGAGCGGU----UGAAAGAGUCGGUCUUGAAAACCGAAGUA 48
chr-1.trna23-Ser-GCT             GGAGGUAUG--------GCUGAGUGGC----UUAAGGCAUUGGUUUGCUAAAUCGACAUA 48
chr-1.trna37-Ser-GCT             GGGGAGAUG--------ACUGAGUGGA----CUAAAGCGUCAAAUUGCUGAUCCGUUGUA 48
chr-2.trna15-Ser-GCT             GGGGAGAUG--------GUUGAGUGGA----CUAAAGCGUCAGAUUGCUAAUCCGUUGUA 48
chr-6.trna9-Ser-GCT              GGGGAGAUG--------GCUGAGUGGA----CUAAAGCAUCGGAUUGCUAAUCCGUUGUA 48
chr-1.trna38-Ser-CGA             GUCGAUAUG--------UCCGAGUGG-----UUAAGGAGACAGACUCGAAAUCUGU-UGG 46
chr-8.trna59-Ser-CGA             GUCGAUAUG--------UCCGAGUGG-----UUAAGGAGACAGACUCGAAAUCUGU-UGG 46
chr-12.trna40-Ser-CGA            GUCGAUAUG--------UCCGAGUGG-----UUAAGGAGACAGACUCGAAAUCUGU-UGG 46
chr-5.trna6-Ser-CGA              GUCGAUAUG--------UCCGAGUGG-----UUAAGGAGACAGACUCGAAAUCUGU-UGG 46
chr-7.trna13-Ser-CGA             GUCGAUAUG--------UCCGAGUGG-----UUAAGGAGACAGACUCGAAAUCUGU-UGG 46
chr-9.trna15-Ser-TGA             GUCGAUAUG--------UCCGAGUGG-----UUAAGGAGACAGACUUGAAAUCUGU-UGG 46
chr-10.trna50-Ser-TGA            GUCGAUAUG--------UCCGAGUGG-----UUAAGGAGACAGACUUGAAAUCUGU-UGG 46
chr-8.trna17-Ser-TGA             GUCGAUAUG--------UCCGAGUGG-----UUAAGGAGACAGACUUGAAAUCUGU-UGG 46
chr-2.trna68-Ser-TGA             GUCGAUAUG--------UCCGAGUGG-----UUAAGGAGACAGACUUGAAAUCUGU-UGG 46
chr-3.trna19-Ser-TGA             GUCGAUAUG--------UCCGAGUGG-----UUAAGGAGACAGACUUGAAAUCUGU-UGG 46
chr-3.trna48-Ser-TGA             GUCGAUAUG--------UCCGAGUGG-----UUAAGGAGACAGACUUGAAAUCUGU-UGG 46
chr-8.trna16-Ser-TGA             GUCGAUAUG--------UCCGAGUGG-----UUAAGGAGACAGACUUGAAAUCUGU-UGG 46
chr-3.trna61-Ser-TGA             GUCGAUAUG--------UCCGAGUGG-----UUAAGGAGACAGACUUGAAAUCUGU-UGG 46
chr-1.trna69-Ser-GCT             GUCGCUUUG--------GCCGAGUGG-----UUAAGGCGUGUGCCUGCUAAGUACA-UGG 46
chr-2.trna46-Ser-GCT             GUCGCUUUG--------GCCGAGUGG-----UUAAGGCGUGUGCCUGCUAAGUACA-UGG 46
chr-10.trna39-Ser-GCT            GUCGCUUUG--------GCCGAGUGG-----UUAAGGCGUGUGCCUGCUAAGUACA-UGG 46
chr-4.trna1-Ser-GCT              GUCGCUUUG--------GCCGAGUGG-----UUAAGGCGUGUGCCUGCUAAGUACA-UGG 46
chr-4.trna2-Ser-GCT              GUCGCUUUG--------GCCGAGUGG-----UUAAGGCGUGUGCCUGCUAAGUACA-UGG 46
chr-5.trna3-Ser-GCT              GUCGCUUUG--------GCCGAGUGG-----UUAAGGCGUGUGCCUGCUAAGUACA-UGG 46
chr-9.trna30-Ser-GCT             GUCGCUUUG--------GCCGAGUGG-----UUAAGGCGUGUGCCUGCUAAGUACA-UGG 46
chr-10.trna30-Ser-GCT            GUCGCUUUG--------GCCGAGUGG-----UUAAGGCGUGUGCCUGCUAAGUACA-UGG 46
chr-6.trna32-Ser-GCT             GUCGCUUUG--------GCCGAGUGG-----UUAAGGCGUGUGCCUGCUAAGUACA-UGG 46
chr-7.trna4-Ser-GCT              GUCGCUUUG--------GCCGAGUGG-----UUAAGGCGUGUGCCUGCUAAGUACA-UGG 46
chr-7.trna44-Ser-AGA             GUGGGCGUG--------CCGGAGUGG-----UUAUCGGGCAUGACUAGAAAUCAUG-UGG 46
chr-8.trna11-Ser-AGA             GUGGACGUG--------CCGGAGUGG-----UUAUCGGGCAUGACUAGAAAUCAUG-UGG 46
chr-1.trna19-Ser-AGA             GUGGUCGUG--------CCGGAGUGG-----UUAUCGGGCAUGACUAGAAAUCAUG-UGG 46
chr-6.trna49-Ser-AGA             GUGGGCAUG--------CCGGAGUGG-----UUAUCGGGCAUGACUAGAAAUCAUG-UGG 46
chr-2.trna45-Ser-AGA             GUGGGCGUG--------CCGGAGUGG-----UUAUCGGGCAUGACUAGAAAUCAUG-UGG 46
chr-2.trna66-Ser-AGA             GUGGGCGUG--------CCGGAGUGG-----UUAUCGGGCAUGACUAGAAAUCAUG-UGG 46
chr-2.trna67-Ser-AGA             GUGGGCGUG--------CCGGAGUGG-----UUAUCGGGCAUGACUAGAAAUCAUG-UGG 46
chr-6.trna10-Ser-AGA             GUGGGCGUG--------CCGGAGUGG-----UUAUCGGGCAUGACUAGAAAUCAUG-UGG 46
chr-1.trna1-Ser-AGA              GUGGGCGUG--------CCGGAGUGG-----UUAUCGGGCAUGACUAGAAAUCAUG-UGG 46
chr-5.trna57-Ser-AGA             GUGGACGUG--------CCAGAGUGG-----UUAUUGGGCAUGACUAGAAAUCAUG-UGG 46
chr-6.trna53-Ser-AGA             GUGGGUUGGCUACACAACCCUACUGGAGUGGUUAUCAAGCAUGACUAGAAAUCAUG-UGG 59
chr-11.trna17-Ser-TGA            GGGCAUUUGGU------CU--AGUGG------UAUGAUUCUUGCUUUGAGUGC--GAGAG 44
chr-6.trna28-Ser-ACT             AGAUCUGUAGC------UCAAAAUGG------UAGAGCGCUCAGCCACUGGCUCCGAGCA 48
                                 .........10........20........30........40........50.........

                                 ((.......)))))..(((((.......)))))))))))).
chr-3.trna41-Ser-GGA             GGC-UUUUGUUUACCGAGGGUUCGAAUCCCUAUCUUUCCA 87
chr-7.trna26-Ser-GGA             GGC-UUUUAUUUACCGAGGGUUCGAAUCCCUCUCUUUUUG 87
chr-1.trna50-Ser-TGA             UUG-AUAGGAAUACCGGGGGUUCGAAUCCCUCUCCAUCCG 87
chr-1.trna23-Ser-GCT             CAAGAAGAUUGUAUCAUGGGUUCGAAUCCCAUUUCCUCCG 88
chr-1.trna37-Ser-GCT             CGAGUUUUUCGUACCGAGGGUUCGAAUCCCUCUCUUUCCG 88
chr-2.trna15-Ser-GCT             CGGGUUUUUCGUACUGAGGGUUCGAAUCCCUCUCUUUUUG 88
chr-6.trna9-Ser-GCT              CGGGUUUUUCGUACCGAGGGUUUGAAACCCUCUCUUUCCG 88
chr-1.trna38-Ser-CGA             GC----UUUGCCUGCGCAGGUUCGAAUCCUGCUGUCGACG 82
chr-8.trna59-Ser-CGA             GC----UUUGCCUGCACAGGUUCGAAUCCUGCUGUCGACG 82
chr-12.trna40-Ser-CGA            GC----UUUGCCUGCGCAGGUUCGAAUCCUGCUGUCGACG 82
chr-5.trna6-Ser-CGA              GC----UUCGCCUGCGCAGGUUCGAAUCCUGCUGUCGACG 82
chr-7.trna13-Ser-CGA             GC----UAUGCCUGCGCAGGUUCGAAUCCUGCUGUCGACG 82
chr-9.trna15-Ser-TGA             GC----UUCGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-10.trna50-Ser-TGA            GC----UUCGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-8.trna17-Ser-TGA             GC----UUCGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-2.trna68-Ser-TGA             GC----UUCGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-3.trna19-Ser-TGA             GC----UUCGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-3.trna48-Ser-TGA             GC----UUCGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-8.trna16-Ser-TGA             GC----UUCGCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-3.trna61-Ser-TGA             GC----UUCGCCCGCGCAGGUUCGAUCCCUGCUGUCGACG 82
chr-1.trna69-Ser-GCT             GG----UUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-2.trna46-Ser-GCT             GG----UUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-10.trna39-Ser-GCT            GG----UUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-4.trna1-Ser-GCT              GG----UUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-4.trna2-Ser-GCT              GG----UUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-5.trna3-Ser-GCT              GG----UUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-9.trna30-Ser-GCT             GG----UUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-10.trna30-Ser-GCT            GG----UUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-6.trna32-Ser-GCT             GG----UUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-7.trna4-Ser-GCT              GG----UUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-7.trna44-Ser-AGA             GC----UCUGCCCGCGCAGGUUCGAAUCCUGCCGCUCACG 82
chr-8.trna11-Ser-AGA             GC----UCUGCCCGCGCAGGUUCGAAUCCUGCCGUCCACG 82
chr-1.trna19-Ser-AGA             GC----UCUGCCCGCGCAGGUUCGAAUCCUGCCGACCACG 82
chr-6.trna49-Ser-AGA             GC----UCUGCCCGCGCAGGUUCGAAUCCUGCUGCUCACG 82
chr-2.trna45-Ser-AGA             GC----UUUGCCCGCGCAGGUUCGAAUCCUGCCGCCCACG 82
chr-2.trna66-Ser-AGA             GC----UUUGCCCGCGCAGGUUCGAAUCCUGCCGCCCACG 82
chr-2.trna67-Ser-AGA             GC----UUUGCCCGCGCAGGUUCGAAUCCUGCCGCCCACG 82
chr-6.trna10-Ser-AGA             GC----UUUGCCCGCGCAGGUUCGAAUCCUGCCGCCCACG 82
chr-1.trna1-Ser-AGA              GC----UUUGCCCGCGCAGGUUCGAAUCCUGCCGCCCACG 82
chr-5.trna57-Ser-AGA             GG----UUUCCCCGCGUAGGUUCGAAUCCUACCGUCCACG 82
chr-6.trna53-Ser-AGA             GC----UCUGCCCACGCAAGUUUGAAUCCUGCUGCUCACG 95
chr-11.trna17-Ser-TGA            GU------------CCCGAGAUUGAUUCUUGGAAUACCCC 72
chr-6.trna28-Ser-ACT             GA------------UGGUGGUUCGAGUCCACCCGGAUCUG 76
                                 .........70........80........90.........
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