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                                 (((((((..(((.........)))(((((.........)))))))(((.....))))
chr-2.trna31-Ser-CGA             GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAA--UCUGUUGGGCUUU---GCCU 55
chr-8.trna7-Ser-AGA              GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUAGAAA--UCUGUUGGGCUUU---GCCU 55
chr-9.trna23-Ser-CGA             GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAA--UCUGUUGGGCUAU---GCCU 55
chr-7.trna19-Ser-CGA             GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAA--UCUGUUGGGCUAU---GCCU 55
chr-2.trna17-Ser-TGA             GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUUGAAA--UCUGUUGGGCUAC---GCCC 55
chr-14.trna3-Ser-TGA             GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUUGAAA--UCUGUUGGGCUAC---GCCC 55
chr-5.trna8-Ser-TGA              GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUUGAAA--UCUGUUGGGCUAC---GCCC 55
chr-5.trna32-Ser-TGA             GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUUGAAA--UCUGUUGGGCUAC---GCCC 55
chr-10.trna4-Ser-TGA             GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUUGAAA--UCUGUUGGGCUUC---GCCC 55
chr-15.trna16-Ser-GCT            GUCGCUUUGGCCGAGUGGUUAAGGCGUGUGCCUGCUAA--GUACAUGGGGUUU---CCCC 55
chr-3.trna17-Ser-GCT             GUCGCUUUGGCCGAGUGGUUAAGGCGUGUGCCUGCUAA--GUACAUGGGGUUU---CCCC 55
chr-3.trna18-Ser-GCT             GUCGCUUUGGCCGAGUGGUUAAGGCGUGUGCCUGCUAA--GUACAUGGGGUUU---CCCC 55
chr-13.trna15-Ser-GCT            GUCGCUUUGGCCGAGUGGUUAAGGCGUGUGCCUGCUAA--GUACAUGGGGUUU---CCCC 55
chr-13.trna7-Ser-GCT             GUCGCUUUGGCCGAGUGGUUAAGGCGUGUGCCUGCUAA--GUACAUGGGGUUU---CCCC 55
chr-10.trna17-Ser-GCT            GUCGCUUUGGCCGAGUGGUUAAGGCGUGUGCCUGCUAA--GUACAUGGGGUUU---CCCC 55
chr-15.trna11-Ser-GCT            GUCGCUUUGGCCGAGUGGUUAAGGCGUGUGCCUGCUAA--GUACAUGGGGUUU---CCCC 55
chr-2.trna32-Ser-GCT             GACGCUUUGGCCGAGUGGUUAAGGCGUGUGCCUGCUAA--GUACAUGGGGUUU---CCCC 55
chr-8.trna8-Ser-AGA              GUGGUCGUGCCGGAGUGGUUAUCGGGCAUGACUAGAAA--UCAUGUGGGCUUU---GCCC 55
chr-9.trna21-Ser-AGA             GUGGUCGUGCCGGAGUGGUUAUCGGGCAUGACUAGAAA--UCAUGUGGGCUUU---GCCC 55
chr-1.trna6-Ser-AGA              GUGGACGUGCCGGAGUGGUUAUCGGGCAUGACUAGAAA--UCAUGUGGGCUCU---GCCC 55
chr-6.trna4-Ser-AGA              GUGGACGUGCCGGAGUGGUUAUCGGGCAUGACUAGAAA--UCAUGUGGGCUCU---GCCC 55
chr-3.trna4-Ser-AGA              GUGGUCGUGCCGGAGUGGUUAUCGGGCAUGACUAGAAA--UCAUGUGGGCUCU---GCCC 55
chr-2.trna3-Ser-AGA              GUGGUCGUGCCGGAGUGGUUAUCGGGCAUGACUAGAAA--UCAUGUGGGCUAU---GCCC 55
chr-9.trna1-Ser-AGA              GUGGUCGUGCCGGAGUGGUUAUCGGGCAUGACUAGAAA--UCAUGUGGGCUAU---GCCC 55
chr-9.trna5-Ser-GCT              GUCGCUUUGGCCGAGUUGUUAAGGCGUGCGCCUGCUAU--GUACAUGGGGUUU---CCCC 55
chr-15.trna9-Ser-CGA             GGAGCAAUGGCUAAGUGGCUCAAGACAUAGCAUUCGAACUGCUAUGUAGGCUUUUGUUUA 60
chr-10.trna21-Ser-ACT            CCGGCCUUAGCUCAACUGGAAGAGUGUUGGAUUACUGA--UCCUUGG------------- 45
chr-10.trna15-Ser-GCT            GCACCAGUGGUCUAGU-GGUAGAAUAGUACCCAGCUAC--GGUACAG------------- 44
chr-9.trna3-Ser-CGA              GUGGGGAUAGCUCAGUUGGGAGAGAAGAUU---UGAA----GGUC--------------- 38
                                 .........10........20........30........40........50.........
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                                 ..(((((.......))))))....)))))).
chr-2.trna31-Ser-CGA             GCGCAGGUUCGAAUCCUGCU-----GUCGACG 82
chr-8.trna7-Ser-AGA              GCGCAGGUUCGAAUCCUGCU-----GUCGACG 82
chr-9.trna23-Ser-CGA             GCGCAGGUUCGAAUCCUGCU-----GUCGACG 82
chr-7.trna19-Ser-CGA             GCGCAGGUUCGAAUCCUGCU-----GUCGACG 82
chr-2.trna17-Ser-TGA             GCGCAGGUUCGAACCCUGCU-----GUCGACG 82
chr-14.trna3-Ser-TGA             GCGCAGGUUCGAACCCUGCU-----GUCGACG 82
chr-5.trna8-Ser-TGA              GCGCAGGUUCGAACCCUGCU-----GUCGACG 82
chr-5.trna32-Ser-TGA             GCGCAGGUUCGAACCCUGCU-----GUCGACG 82
chr-10.trna4-Ser-TGA             GCGCAGGUUCGAACCCUGCU-----GUCGACG 82
chr-15.trna16-Ser-GCT            GCGAGAGUUCGAAUCUCUCA-----GGCGACG 82
chr-3.trna17-Ser-GCT             GCGAGAGUUCGAAUCUCUCA-----GGCGACG 82
chr-3.trna18-Ser-GCT             GCGAGAGUUCGAAUCUCUCA-----GGCGACG 82
chr-13.trna15-Ser-GCT            GCGAGAGUUCGAAUCUCUCA-----GGCGACG 82
chr-13.trna7-Ser-GCT             GCGAGAGUUCGAAUCUCUCA-----GGCGACG 82
chr-10.trna17-Ser-GCT            GCGAGAGUUCGAAUCUCUCA-----GGCGACG 82
chr-15.trna11-Ser-GCT            GCGAGAGUUCGAAUCUCUCA-----GGCGACG 82
chr-2.trna32-Ser-GCT             GCGAGAGUUCGAAUCUCUCA-----GGCGUCG 82
chr-8.trna8-Ser-AGA              GCGCAGGUUCGAAUCCUGCC-----GACCACG 82
chr-9.trna21-Ser-AGA             GCGCAGGUUCGAAUCCUGCC-----GACCACG 82
chr-1.trna6-Ser-AGA              GCGUAGGUUCGAAUCCUACC-----GUUCACG 82
chr-6.trna4-Ser-AGA              GCGUAGGUUCGAAUCCUACC-----GUCCACG 82
chr-3.trna4-Ser-AGA              GCGCAGGUUCGAAUCCUGCC-----GACCACG 82
chr-2.trna3-Ser-AGA              GCGCAGGUUCGAAUCCUGCC-----GACCACG 82
chr-9.trna1-Ser-AGA              GCGCAGGUUCGAAUCCUGCC-----GACCACG 82
chr-9.trna5-Ser-GCT              GCGAAAGUUCGAAUAUCUCA-----GGCGACA 82
chr-15.trna9-Ser-CGA             UUGAGGGUUCAAAUCCCUCUCUUUCUGUUUCU 92
chr-10.trna21-Ser-ACT            UCGCUGGUUCGAAUCCGGCA-----GGUCGGG 72
chr-10.trna15-Ser-GCT            ACCCGGAUUCGAUUCUCGGC-----UGGUGCA 71
chr-9.trna3-Ser-CGA              --GCGUGUUCGAUCCACGCU-----CACCGCA 63
                                 .........70........80........90.
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