```
                         (((((((..(((...........))).(((((.......)))))).(((((.........
chr-6.trna51-Ser-ACT     GCUCUCGUAGCUCAGUUGGUUGGAGGACCCGCUUACUUAGCGGAGGU------------ 47
chr-2.trna33-Ser-GCT     GCACCAGUGGUCUAGU--GGUAGAAUAGGUACCCUGCUACGGUACAGA------------ 45
chr-5.trna15-Ser-GGA     GGAGAGAUGACCGAGUGGUUGAAGGCGUAGCAUUGGAACUGCUAUGUAGGCUU----UU- 55
chr-7.trna61-Ser-GGA     GGAGAGAUGGCCGAGUGGUUGAAGGCGUAGCAUUGGAACUGCUAUGUAGGCUU----UU- 55
chr-10.trna48-Ser-AGA    GGAGAGAUGGCCGAGUGGUUGAAGGCGUAGCAUUAGAACUGCUAUGUAGGCUU----UU- 55
chr-9.trna61-Ser-GGA     GGAGAGAUGGCCGUGUGGUUUAAGGCGUAGCGUUGGAAUUGCUAUGUAGGCUU----UU- 55
chr-1.trna99-Ser-GCT     GGAGGGAUGGCUGAGUGGACUAAAGCGGCGGAUUGCUAAUUCGUUGUACGAGU----UAA 56
chr-7.trna10-Ser-GCT     GGAGAGAUGACUGAGUGGACUAAAGCGGCGGAUUGCUAAUCCGUUGUACGAGU----UAA 56
chr-10.trna39-Ser-GCT    GGAGAGAUGGCUGAGUGGACUAAAGCGGCGGAUUGCUAAUCCGUUGUACGAGU----UAA 56
chr-9.trna45-Ser-GCT     GGAGGUAUGGCUGAGUGGCUUAAGGCAUUGGUUUGCUAAAUCGACAUACAAGA----AGA 56
chr-7.trna60-Ser-TGA     GGAGAGAUGGCUGAGCGGUUGAUAGCCCCGGUCUUGAAAAUCGGUAUAGUUUUAACAAAG 60
chr-2.trna16-Ser-TGA     GUCGAUAUGUCCGAGUGG-UUAAGGAGACAGACUUGAAAUCUGU-UGGGCUUC------- 51
chr-2.trna40-Ser-TGA     GUCGAUAUGUCCGAGUGG-UUAAGGAGACAGACUUGAAAUCUGU-UGGGCUUC------- 51
chr-2.trna41-Ser-TGA     GUCGAUAUGUCCGAGUGG-UUAAGGAGACAGACUUGAAAUCUGU-UGGGCUUC------- 51
chr-6.trna41-Ser-TGA     GUCGAUAUGUCCGAGUGG-UUAAGGAGACAGACUUGAAAUCUGU-UGGGCUUC------- 51
chr-7.trna3-Ser-TGA      GUCGAUAUGUCCGAGUGG-UUAAGGAGACAGACUUGAAAUCUGU-UGGGCUUC------- 51
chr-11.trna17-Ser-TGA    GUCGAUAUGUCCGAGUGG-UUAAGGAGACAGACUUGAAAUCUGU-UGGGCUUU------- 51
chr-6.trna54-Ser-TGA     GUCGAUAUGUCCGAGUGG-UUAAGGAGACAGACUUGAAAUCUGU-UGGGCUUC------- 51
chr-7.trna22-Ser-CGA     GUCGAUAUGUCCGAGUGG-UUAAGGAGACAGACUCGAAAUCUGU-UGGGCUUC------- 51
chr-1.trna41-Ser-GCT     GUCGCUUUGGCCGAGUGG-UUAAGGCGUGUGCCUGCUAAGUACA-UGGGGUUU------- 51
chr-5.trna8-Ser-GCT      GUCGCUUUGGCCGAGUGG-UUAAGGCGUGUGCCUGCUAAGUACA-UGGGGUUU------- 51
chr-10.trna15-Ser-GCT    GUCGCUUUGGCCGAGUGG-UUAAGGCGUGUGCCUGCUAAGUACA-UGGGGUUU------- 51
chr-5.trna12-Ser-GCT     GUCGCUUUGGCCGAGUGG-UUAAGGCGUGUGCCUGCUAAGUACA-UGGGGUUU------- 51
chr-1.trna14-Ser-GCT     GUCGCUUUGGCCGAGUGG-UUAAGGCGUGUGCCUGCUAAGUACA-UGGGGUUU------- 51
chr-12.trna55-Ser-GCT    GUCGCUUUGGCCGAGUGG-UUAAGGCGUGUGCCUGCUAAGUACA-UGGGGUUU------- 51
chr-12.trna50-Ser-GCT    GUCGCUUUGGCCGAGUGG-UUAAGGCGUGUGCCUGCUAAGUACA-UGGGGUUU------- 51
chr-1.trna100-Ser-AGA    GUGGACGUGCCGGAGUGG-UUAUCGGGCAUGACUAGAAAUCAUG-UGGGCUCU------- 51
chr-10.trna14-Ser-AGA    GUGGACGUGCCGGAGUGG-UUAUCGGGCAUGACUAGAAAUCAUG-UGGGCUCU------- 51
chr-1.trna53-Ser-AGA     GUGGACGUGCCGGAGUGG-UUAUCGGGCAUGACUAGAAAUCAUG-UGGGCUUU------- 51
chr-6.trna24-Ser-AGA     GUGGACGUGCCGGAGUGG-UUAUCGGGCAUGACUAGAAAUCAUG-UGGGCUUU------- 51
chr-2.trna44-Ser-AGA     GUGGUCGUGCCGGAGUGG-UUAUCGGGCAUGACUAGAAAUCAUG-UGGGCUUU------- 51
chr-1.trna97-Ser-TGA     GGAUGGAUGUCUGAGUGGCUGAAAGAGUCGGUCUUGAAAACUGAAGUAUUUGU-----AG 55
chr-2.trna83-Ser-TGA     GGGUGGAUGUCUGAGCGGUUGAAAGAGUCGGUCUUGAAAAUUGAAGUAUUUAU-----AG 55
                         .........10........20........30........40........50.........

                         .)))))).(((((.......)))))))))))).
chr-6.trna51-Ser-ACT     ------CUUGAGUUUGACUCUCAAUCAGAGCA 73
chr-2.trna33-Ser-GCT     ------CCCGGGUUUGA-UUCCGGCUGGUGCA 70
chr-5.trna15-Ser-GGA     GUUUACCGAGGGUUCGAAUCCCUCUCUUUCCG 87
chr-7.trna61-Ser-GGA     GUUUACCGAGGGUUCGAAUCCCUCUCUUUCCG 87
chr-10.trna48-Ser-AGA    GUUUACCGAGGGUUCGAAUGCCUCUCUUUCCG 87
chr-9.trna61-Ser-GGA     GUUUACUGAGGGUUCGAAUACCUCUCUUUCCG 87
chr-1.trna99-Ser-GCT     UCGUACCGAGGGUUCCAAUCCCUCUCUUUCCG 88
chr-7.trna10-Ser-GCT     UCGUACCGAGGGUUCGAUUCCCUCUCUUUCUG 88
chr-10.trna39-Ser-GCT    UCGUACCGAGGGUUCGAAUCCCUCUCUUUACG 88
chr-9.trna45-Ser-GCT     UUGUAUCAUGGGUUCGAAUCCCAUUUCCUCCG 88
chr-7.trna60-Ser-TGA     AACUAUCGAGGGUUCGAAUCCCCCUCUCUCCU 92
chr-2.trna16-Ser-TGA     -GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-2.trna40-Ser-TGA     -GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-2.trna41-Ser-TGA     -GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-6.trna41-Ser-TGA     -GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-7.trna3-Ser-TGA      -GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-11.trna17-Ser-TGA    -GCCCGCGCAGGUUCGAACCCUGCUGUCGACG 82
chr-6.trna54-Ser-TGA     -GCCCGCGCAGGUUCGAUCCCUGCUGUCGACG 82
chr-7.trna22-Ser-CGA     -GCCUGCGCAGGUUCGAAUCCUGCUGUCGACG 82
chr-1.trna41-Ser-GCT     -CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-5.trna8-Ser-GCT      -CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-10.trna15-Ser-GCT    -CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-5.trna12-Ser-GCT     -CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-1.trna14-Ser-GCT     -CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-12.trna55-Ser-GCT    -CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-12.trna50-Ser-GCT    --CCCGCGAGAGUUCGAAUCUCUCAGGCGACG 81
chr-1.trna100-Ser-AGA    -GCCCGCGCAGGUUCGAAUCCUGCCGUCCACG 82
chr-10.trna14-Ser-AGA    -GCCCGCGCAGGUUCGAAUCCUGUCGUCCACG 82
chr-1.trna53-Ser-AGA     -GCCCGCGCAGGUUCGAAUCCUGCCGUCCACG 82
chr-6.trna24-Ser-AGA     -GCCCGCGCAGGUUCGAAUCCUGCCGUCCACG 82
chr-2.trna44-Ser-AGA     -GCCCGCGCAGGUUCGAAUCCUGCCGACCACG 82
chr-1.trna97-Ser-TGA     AACUACCGGGG-UUCGAAUCCCUAUCCAUCCG 86
chr-2.trna83-Ser-TGA     AGAUACCGGGGUUUCGAAUCCCUCUCCAUCCG 87
                         .........70........80........90.
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