```
                                (((((((..(((...........))).(((.(.....)))))..(((.........
chr-3.trna134-Ser-GCT    GUCGCUUUGGCCGAGU-CUU-AAGGCGUGU-GCCUGCUAAGUACA--UGGAUUUUCCUGA 55
chr-2.trna50-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-1.trna75-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-4.trna52-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-9.trna61-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-4.trna59-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-4.trna60-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-7.trna71-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-7.trna58-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-4.trna62-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-10.trna58-Ser-GCT    GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-7.trna8-Ser-GCT      GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-10.trna56-Ser-GCT    GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCUUGCUAAGUACA--UGG---------- 46
chr-2.trna26-Ser-GCT     GUUGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-4.trna61-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-5.trna70-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-3.trna82-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-1.trna76-Ser-GCT     GUCGCUUUGGCCGAGUGGUU-AAGGCGUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-3.trna81-Ser-GCT     GUUGCUUUGGCCGAGUGGUU-AAGGCGUGC-CCUGCUAAGUACA--UGG---------- 46
chr-11.trna32-Ser-GCT    GUUGCUUUGGCCGAGUGAUU-AAGGCAUGUGGCCUGCUAAGUACA--UGG---------- 47
chr-2.trna93-Ser-GCT     GUUGCUUUGGCCGAGUGGUU-AAGUCUUGU-GCCUGCUAAGUACA--UGG---------- 46
chr-2.trna65-Ser-GCT     AGAGAGAUAGCUGAGUGAACUAAAGCAUCA-GAUUGCUAAUCCACUGUAC-------AAG 52
chr-10.trna2-Ser-GCT     GGAGAGAUGGCUGAGUGGACUAAAGUGGCG-GAUUGCUAAUCCGUU-GUA-------CGA 51
chr-2.trna66-Ser-GCT     GGAGGUAUGGCUGAGUGGCUAAAGGCAUUG-GUUUGCUAAAUCGAC-AUA-------CAA 51
chr-4.trna6-Ser-GCT      GGAGGUAUGGCUGAGUGGCUAAAGGCAUUG-GUUUGCUAAAUCGAC-AUA-------CAA 51
chr-6.trna9-Ser-GCT      GGAGGUAUGGCUGAGUGGCUAAAGGCAUUG-GUUUGCUAAAUCGAC-AUA-------CAA 51
chr-9.trna28-Ser-GCT     GGAGGUAUGGCUGAGUGGCUAAAGGCAUUG-GUUUGCUAAAUCGAC-AUA-------CAA 51
chr-9.trna47-Ser-GCT     GCACCAGUGGUCUAGUGGU---AGAAUAGUACCCUGCUA-------------------- 36
                         .........10........20........30........40........50.........

                         .((...))))).(((((.......)))))))))))).
chr-3.trna134-Ser-GCT    AGGUUUCCCCGCGAGAGUUCGAAUCUCUCAGUCGACG 92
chr-2.trna50-Ser-GCT     -GGUUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-1.trna75-Ser-GCT     -GGUUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-4.trna52-Ser-GCT     -GGUUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-9.trna61-Ser-GCT     -GGUUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-4.trna59-Ser-GCT     -GGUUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-4.trna60-Ser-GCT     -GGUUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-7.trna71-Ser-GCT     -GGUUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-7.trna58-Ser-GCT     -GGUUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-4.trna62-Ser-GCT     -GGUUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-10.trna58-Ser-GCT    -GGUUUCCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-7.trna8-Ser-GCT      -GAUUUUCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-10.trna56-Ser-GCT    -GGUUUCCCCGCGAGAGUUCGAAUCUCUCAGGUGACG 82
chr-2.trna26-Ser-GCT     -GGUUUCCCCGCGAGAGUUCGAAUCUCUCAGGCAACG 82
chr-4.trna61-Ser-GCT     -GGUUUCCCCGCGAGAGUUCGAGUCUCUCAGGCGACG 82
chr-5.trna70-Ser-GCT     -GAUUUCUCCGCGAGAGUUCGAAUCUCUUAGGCGACG 82
chr-3.trna82-Ser-GCT     -GGUUUCCCUAUGAGAGUUCGAAUCUCUUAGCUGACG 82
chr-1.trna76-Ser-GCT     -GGUUUCUUCGCGAGAGUUCGAAUUUCUUAGGCGACG 82
chr-3.trna81-Ser-GCT     -GGUUUCCCUGCGAGAGUUUGAAUCUCUCAGGCGACG 82
chr-11.trna32-Ser-GCT    -GGUUUCUCCGUGAGAGUUUGAAUCUCUCAAGCGACG 83
chr-2.trna93-Ser-GCT     -G-UUUCUUUGCGAGGGUUCGAAUCUCUUAGGCAAUG 81
chr-2.trna65-Ser-GCT     -UUUUUUUGUACGACGGUUCAAAUCCCCUCUCUUUCUG 88
chr-10.trna2-Ser-GCT     UUUUUUUGUACCGAGGGUUCGAAUCCCUCUCUUUCCG 88
chr-2.trna66-Ser-GCT     GAAGAUUGUAUCAUGGGUUCUCAUCCCAUUUCCUCCG 88
chr-4.trna6-Ser-GCT      GAAGAUUGUAUCAUGGGUUCUCAUCCCAUUUCCUCCG 88
chr-6.trna9-Ser-GCT      GAAGAUUGUAUCAUGGGUUCUCAUCCCAUUUCCUCCG 88
chr-9.trna28-Ser-GCT     GAAGAUUGUAUCAUGGGUUCUCAUCCCAUUUCCUCCG 88
chr-9.trna47-Ser-GCT     --CUGUACAGACCCGGGUUCGAUUCCCGGCUGUUGCA 71
                         .........70........80........90......
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