```
                                 (((((((..(((...........))).(((((.......)))))).(((((.......)))))
chr-1.trna103-Ser-GCT    GGAGGUAUGGCUGAGUGGCUUAAGGCAUUGGUUUGCUAAAUCGACAUACAAGAAGAUUGU 60
chr-1.trna352-Ser-GCT    GGAGGUAUGGCUGAGUGGCUUAAGGCAUUGGUUUGCUAAAUCGACAUACAAGAAGAUUGU 60
chr-1.trna497-Ser-GCT    GGAGGUAUGGCUGAGUGGCUUAAGGCAUUGGUUUGCUAAAUCGACAUACAAGAAGAUUGU 60
chr-2.trna374-Ser-GCT    GGAGGUAUGGCUGAGUGGCUUAAGGCAUUGGUUUGCUAAAUCGACAUACAAGAAGAUUGU 60
chr-3.trna541-Ser-GCT    GGAGGUAUGGCUGAGUGGCUUAAGGCAUUGGUUUGCUAAAUCGACAUACAAGAAGAUUGU 60
chr-7.trna218-Ser-GCT    GGAGGUAUGGCUGAGUGGCUUAAGGCAUUGGUUUGCUAAAUCGACAUACAAGAAGAUUGU 60
chr-7.trna181-Ser-GCT    GGAGGUAUGGCUGAGUGGCUUAAGGCAUUGGUUUGCUAAAUCGACAUACAAGAAGAUUGU 60
chr-4.trna239-Ser-GCT    GGAGGUAUGGCUGAGUGGCUUAAGGCAUUGGUUUGCUAAAUCGACAUACAAGAAGAUUGU 60
chr-7.trna369-Ser-GCT    GGAGGUAUGGCUGAGUGGCUUAAGGCAUUGGUUUGCUAAAUCGACAUACAAGAAGAUUGU 60
chr-3.trna222-Ser-GCT    GGAGGUAUGGCUGAGUGGCUUAAGGCAUUGGUUUGCUAAAUCAACAUACAAGAAGAUUGU 60
chr-2.trna3-Ser-GCT      GGAGAGAUGGCUGAGUGGACUAAAGCGGCGGAUUGCUAAUCCGUUGUACAACUUUUUUGU 60
chr-3.trna59-Ser-GCT     GGAGAGAUAGCUGAGUGGAGUAAAGCGGCGGAUUGCUAAUCCGCUGUACAAUUUUUUGU 60
chr-5.trna332-Ser-GCT    GGAGAGAUGGCUGAGUGGACUAAAGCGGCGGAUUGCUAAUCCGUUGUACAA-UUUUUUGU 59
chr-7.trna635-Ser-GCT    GACGCUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGG----UUUCCC 54
chr-2.trna531-Ser-GCT    GACGCUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGG----UUUCCC 54
chr-5.trna374-Ser-GCT    GACGCUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGG----UUUCCC 54
chr-4.trna327-Ser-GCT    GACGCUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGG----UUUCCC 54
chr-6.trna400-Ser-GCT    GACGCUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGG----UUUCCC 54
chr-3.trna151-Ser-GCT    GACGCUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGG----UUUCCC 54
chr-3.trna493-Ser-GCT    GACGCUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGG----UUUCCC 54
chr-3.trna442-Ser-GCT    GACGCUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGG----UUUCCC 54
chr-3.trna492-Ser-GCT    GACGCUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGG----UUCCCC 54
chr-5.trna416-Ser-GCT    GACACUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGC----UCUGCC 54
chr-5.trna397-Ser-GCT    GACACUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGC----UCUGCC 54
chr-1.trna155-Ser-GCT    GUCGCUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGG----UUUCCC 54
chr-2.trna532-Ser-GCT    GACACUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGG----UUUCCC 54
chr-7.trna591-Ser-GCT    GACGCUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGC----UCUGCC 54
chr-6.trna44-Ser-GCT     GACGCUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGC----UCUGCC 54
chr-6.trna42-Ser-GCT     GACGCUUUGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-UGGGC----UCUGCC 54
chr-7.trna52-Ser-GCT     GACGCUUUGGCCGAGUGGU-UAAGGCGUGUACCUGCUAAGUACA-UGGGC----UCUGCC 54
chr-5.trna408-Ser-GCT    GACAUUUGGGCCGAGUGGU-UAAGGCGUGUGCCUGCUAAGUACA-CGUGC----UCUGCC 54
chr-3.trna259-Ser-GCT    GA-----UGGCUGAGUGGACUAAAGCGGGGGAUUGCUAAUCCGUUGUACAA-UUUUUUGU 54
                         .........10.........20.........30.........40.........50.........

                         )).(((((.......)))))))))))))).
chr-1.trna103-Ser-GCT    AUCAUGGGUUCGAAUCCCAUUUCCUCCG 88
chr-1.trna352-Ser-GCT    AUCAUGGGUUCGAAUCCCAUUUCCUCCG 88
chr-1.trna497-Ser-GCT    AUCAUGGGUUCGAAUCCCAUUUCCUCCG 88
chr-2.trna374-Ser-GCT    AUCAUGGGUUCGAAUCCCAUUUCCUCCG 88
chr-3.trna541-Ser-GCT    AUCAUGGGUUCGAAUCCCAUUUCCUCCG 88
chr-7.trna218-Ser-GCT    AUCAUGGGUUCGAAUCCCAUUUCCUCCG 88
chr-7.trna181-Ser-GCT    AUCAUGGGUUCGAAUCCCAUUUCCUCCG 88
chr-4.trna239-Ser-GCT    AUCAUGGGUUCGAAUCCCAUUUCCUCCG 88
chr-7.trna369-Ser-GCT    AUCAUGGGUUCGAAUCCCAUUUCCUCCU 88
chr-3.trna222-Ser-GCT    AUCAUGGGUUCGAAUCCCAUUUCCUCCG 88
chr-2.trna3-Ser-GCT      GCCGAGGGUUCGAAUCCCUUUCUUUCGA 88
chr-3.trna59-Ser-GCT     ACCGAGGGUUCGAAUCCCUCUCUUUCCG 88
chr-5.trna332-Ser-GCT    ACCGAGGGUUCGAAUCCCUCUCUUUCCG 87
chr-7.trna635-Ser-GCT    CGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-2.trna531-Ser-GCT    CGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-5.trna374-Ser-GCT    CGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-4.trna327-Ser-GCT    CGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-6.trna400-Ser-GCT    CGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-3.trna151-Ser-GCT    CGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-3.trna493-Ser-GCT    CGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-3.trna442-Ser-GCT    CGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-3.trna492-Ser-GCT    CGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-5.trna416-Ser-GCT    CGCGAGAGUUCGAAUCUCUCAGGUGUCG 82
chr-5.trna397-Ser-GCT    CGCGAGAGUUCGAAUCUCUCAGGUGUCG 82
chr-1.trna155-Ser-GCT    CGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-2.trna532-Ser-GCT    CGCGAGAGUUCGAAUCUCUCAGGUGUCG 82
chr-7.trna591-Ser-GCT    CGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-6.trna44-Ser-GCT     CGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-6.trna42-Ser-GCT     CGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-7.trna52-Ser-GCT     CGCGAGAGUUCGAAUCUCUCAGGCCUCG 82
chr-5.trna408-Ser-GCT    CGCGAGAGUUAGAAUCUCUCAGGUGUCG 82
chr-3.trna259-Ser-GCT    ACCGAGGGUUUGAAUCCCUCUG----CA 78
                         .........70.........80.......
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