```
                        (((((...((..(.(((.........)))).(((((((...)))))))).....(((((..
chr-2.trna34-Thr-GGT    GCCCU---UUUAA-CUCAGU--GGUAGAGUAAUGCCAUGGUAAGGCAUAAGUCAUCGGUU 54
chr-4.trna412-Thr-GGT   GCCCU---UUUAA-CUUAGU--GGUAGAGUAAUGCCAUGGUAAGGCAUAAGUCAUCGGUU 54
chr-4.trna203-Thr-GGT   GCCCU---UUUAA-CUUAGU--GGUAGAGUAAUGCCAUGGUAAGGCAUAAGUCAUCGGUU 54
chr-2.trna336-Thr-CGT   GCUUC---CGUAG-CAUAGU--GGUAUUGCGUUCGCUUCGUAAGCGAAAGGCCGCGAGUU 54
chr-2.trna9-Thr-CGT     GCCUC---CGUAG-CAUAGU--GGUAGUGCGUUCCCUUCGUAAGGGAAAGGUCGUGAGUU 54
chr-2.trna453-Thr-CGT   GCCUC---CGUAG-CAUAGU--GGUAGUGCGUUCCCUUCGUAAGGGAAAGGUCGUGAGUU 54
chr-6.trna4-Thr-CGT     GCCUC---CGUAG-CAUAGU--GGUAGUGCGUUCCCUUCGUAAGGGAAAGGUCGUGAGUU 54
chr-7.trna405-Thr-CGT   GCCUC---CGUAG-CAUAGU--GGUAGUGCGUUCCCUUCGUAAGGGAAAGGUCGUGAGUU 54
chr-6.trna3-Thr-CGT     GCCUC---CGUAG-CAUAGU--GGUAGUGCGUUCCCUUCGUAAGGGAAAGGUCGUGAGUU 54
chr-6.trna6-Thr-CGT     GCCUC---CGUAG-CAUAGU--GGUAGUGCGUUCCCUUCGUAAGGGAAAGGUCGUGAGUU 54
chr-6.trna5-Thr-CGT     GCCUC---CGUAG-CAUAGU--GGUAGUGCGUUCCCUUCGUAAGGGAAAGGUCGUGAGUU 54
chr-6.trna193-Thr-CGT   GCUUC---CGUAG-CAUAGU--GGUAGUGCGUUCGCUUCGUAAGCGAAAGGUCGUGAGUU 54
chr-1.trna116-Thr-TGT   GCCCC---UAUAG-CUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCUGUAGUU 54
chr-4.trna15-Thr-TGT    GCCCC---UAUAG-CUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCUGUAGUU 54
chr-7.trna543-Thr-TGT   GCCCU---UAUAG-CUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUU 54
chr-7.trna542-Thr-TGT   GCCCU---UAUAG-CUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUU 54
chr-5.trna262-Thr-TGT   GCCCU---UAUAG-CUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUU 54
chr-5.trna218-Thr-TGT   GCCCU---UAUAG-CUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUU 54
chr-6.trna304-Thr-TGT   GCCCU---UAUAG-CUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUU 54
chr-5.trna449-Thr-TGT   GCCCU---UAUAG-CUCAGU--GGUAGAGCGUCAGUCUUGUAAACUGAAGGUCCGUAGUU 54
chr-1.trna472-Thr-AGT   GCUCU---CGUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-2.trna370-Thr-AGT   GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-2.trna372-Thr-AGT   GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-2.trna611-Thr-AGT   GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-3.trna9-Thr-AGT     GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-3.trna10-Thr-AGT    GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-7.trna91-Thr-AGT    GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-3.trna309-Thr-AGT   GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-3.trna671-Thr-AGT   GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-4.trna8-Thr-AGT     GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-4.trna9-Thr-AGT     GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-4.trna216-Thr-AGT   GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-5.trna6-Thr-AGT     GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-5.trna172-Thr-AGT   GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-5.trna291-Thr-AGT   GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-5.trna293-Thr-AGT   GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-5.trna173-Thr-AGT   GCUUU---CAUAG-CCCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-4.trna11-Thr-AGT    GCUUU---CAUAG-AUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-6.trna295-Thr-AGT   GCUUU---CAUAG-CUCAGUUGGUUAGAGCACCGCUUAGUAAGCGGGAGGUCUUGAUUU 56
chr-5.trna51-Thr-AGT    GCUCU---CGUAG-CUUAGUUGGUUAGAGCACCUGUUUAGUAUGUAGGAGGUCUUGAGUU 56
chr-6.trna15-Thr-GGT    GCUUCACACGUAGACUCAGUUGGUUAGAGCACCCAUUUGGUAAGCGGGAGGUCUUGAGUU 60
chr-5.trna50-Thr-AGT    GCCCU---UGUAG-CUCAGUUGGUUAGAGCACCCGUUAGUAAGCGGGAGGUCUUGAGUU 56
chr-3.trna28-Thr-TGT    ----A---CUUAG-CUCAGA-GGUUAGAGCAUCGCAUUUGUAAUGCGAGGUUCAUCGGUU 51
chr-4.trna228-Thr-TGT   GCCCA---CUUAG-UUCAGA-GGUUAGAGCAUCGCAUUUGUAAUGCGAGGGUCAUCGGUU 55
chr-7.trna341-Thr-TGT   GCCCA---CUUAG-CUCACA-GGUUAGAGCAUCGCAUUUGUAAUGCGAGGGUCAUCGGUU 55
chr-3.trna57-Thr-TGT    GCCCA---CUUAG-CUCAGA-GGUUAGAGCAUCGCAUUUGUAAUGCGAGGGUCAUCUGUU 55
chr-6.trna344-Thr-TGT   GCCCA---CUUAG-CUCAGA-GGUUAGAGCAUCGCAUUUGUAAUACGAGGGUCAUCGGUU 55
chr-4.trna78-Thr-TGT    GCCCA---CUUAG-CUUAGA-GGUUAGAGCAUCACAUUUGUAAUGUGAGGGCCAUCAAUU 55
chr-4.trna80-Thr-TGT    GCCCA---CUUAG-CUUAGA-GGUUAGAGCAUCACAUUUGUAAUGUGAGGGCCAUCAAUU 55
chr-7.trna64-Thr-CGT    ACCUA-CUCGACUCAACGGUUAGAGU-AUUGCUUUCGUACAACGAGAG---UCAUUGGUU 55
chr-4.trna199-Thr-CGT   CCACU--------GCUCAGUU-GGUAAAGCUCAAAGCCCGUAACCUUGUGGACAUGGAUU 51
                        .........10........20........30........40........50.........

                        .....))))))))))))).
chr-2.trna34-Thr-GGT    CAAAUCCAAUAAAGGGCU 72
chr-4.trna412-Thr-GGT   CAAAUUCGAUAAAGAGCU 72
chr-4.trna203-Thr-GGT   CAAAUCCGAUAAAAGGCU 72
chr-2.trna336-Thr-CGT   CGAUCCUCGCCGGGAGCU 72
chr-2.trna9-Thr-CGT     CGAUCCUCACCGGGGGCU 72
chr-2.trna453-Thr-CGT   CGAUCCUCACCGGGGGCU 72
chr-6.trna4-Thr-CGT     CGAUCCUCACCGGGGGCU 72
chr-7.trna405-Thr-CGT   CGAUCCUCACCGGGGGCU 72
chr-6.trna3-Thr-CGT     CGAUCCUCACCGGGGGCU 72
chr-6.trna6-Thr-CGT     CGAUCCUCACCGGGGGCU 72
chr-6.trna5-Thr-CGT     CGAUCCUCACCGGGGGCU 72
chr-6.trna193-Thr-CGT   CGAUCCUCACCGGGAGCA 72
chr-1.trna116-Thr-TGT   CGAUCCUGCAUGGGGGCA 72
chr-4.trna15-Thr-TGT    CGAUCCUGCAUGGGGGCA 72
chr-7.trna543-Thr-TGT   CGAUCCUGCGUGAGGGCA 72
chr-7.trna542-Thr-TGT   CGAUCCUGCGUGAGGGCA 72
chr-5.trna262-Thr-TGT   CGAUCCUGCGUGAGGGCA 72
chr-5.trna218-Thr-TGT   CGAUCCUGCGUGAGGGCA 72
chr-6.trna304-Thr-TGT   CGAUCCUGCGUGAGGGCA 72
chr-5.trna449-Thr-TGT   CGAUCCUGCGUGAGGGCA 72
chr-1.trna472-Thr-AGT   CAACUCUCAACGAGAGCA 74
chr-2.trna370-Thr-AGT   CAACUCUCAAUGAAAGCA 74
chr-2.trna372-Thr-AGT   CAACUCUCAAUGAAAGCA 74
chr-2.trna611-Thr-AGT   CAACUCUCAAUGAAAGCA 74
chr-3.trna9-Thr-AGT     CAACUCUCAAUGAAAGCA 74
chr-3.trna10-Thr-AGT    CAACUCUCAAUGAAAGCA 74
chr-7.trna91-Thr-AGT    CAACUCUCAAUGAAAGCA 74
chr-3.trna309-Thr-AGT   CAACUCUCAAUGAAAGCA 74
chr-3.trna671-Thr-AGT   CAACUCUCAAUGAAAGCA 74
chr-4.trna8-Thr-AGT     CAACUCUCAAUGAAAGCA 74
chr-4.trna9-Thr-AGT     CAACUCUCAAUGAAAGCA 74
chr-4.trna216-Thr-AGT   CAACUCUCAAUGAAAGCA 74
chr-5.trna6-Thr-AGT     CAACUCUCAAUGAAAGCA 74
chr-5.trna172-Thr-AGT   CAACUCUCAAUGAAAGCA 74
chr-5.trna291-Thr-AGT   CAACUCUCAAUGAAAGCA 74
chr-5.trna293-Thr-AGT   CAACUCUCAAUGAAAGCA 74
chr-5.trna173-Thr-AGT   CAACUCUCAAUGAAAGCA 74
chr-4.trna11-Thr-AGT    CAACUCUCAAUGAAAGAA 74
chr-6.trna295-Thr-AGT   CAACUCUCAAUGAAAGCA 74
chr-5.trna51-Thr-AGT    CAACUCUCAGUGAGAGCA 74
chr-6.trna15-Thr-GGT    CAACUCUCAAUGAAAGCA 78
chr-5.trna50-Thr-AGT    AAACU-----UGAGAGUA 69
chr-3.trna28-Thr-TGT    CAAAUCCGAUGUUCGGCU 69
chr-4.trna228-Thr-TGT   CAAAUCCGAUAGUUGGCU 73
chr-7.trna341-Thr-TGT   CAAAUCCGAUAGUCGGCU 73
chr-3.trna57-Thr-TGT    CAAAUCUGAUAGUCGGCU 73
chr-6.trna344-Thr-TGT   CAAAUCCGAUAGUCGGCU 73
chr-4.trna78-Thr-TGT    CAAGUCCGAUAGUCGGCU 73
chr-4.trna80-Thr-TGT    CAAGUCCGAUAGUCGGCU 73
chr-7.trna64-Thr-CGT    CAAAUCCAAUCGUAGGUA 73
chr-4.trna199-Thr-CGT   CAAGCCCCAUGAUGGGGG 69
                        .........70.......
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