```
                                 (((((((..(((.(.....)).))))))((((.......))))))).(........).
chr-1.trna32-Leu-TAA     GCUGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCAGUCAACUGCGC 58
chr-5.trna2-Leu-TAA      GCUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-6.trna19-Leu-TAA     GCUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-7.trna52-Leu-TAA     GCAGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-7.trna56-Leu-TAA     GCAGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-5.trna3-Leu-TAA      GCUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-2.trna23-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGAAAGAGGGC 59
chr-2.trna61-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGAAAGAGGGC 59
chr-3.trna53-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGAAAGAGGGC 59
chr-8.trna46-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGAAAGAGGGC 59
chr-11.trna25-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGAAAGAGGGC 59
chr-11.trna3-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGAAAGAGGGC 59
chr-11.trna11-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGAGAGAGGGC 59
chr-11.trna26-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGAGAGAGGGC 59
chr-6.trna2-Leu-CAA      GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCUAACGAGGGC 59
chr-9.trna21-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGUCAGACUCAAGUUCUGAUCCUCUAACGAGGGC 59
chr-9.trna20-Leu-CAA     AUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCUAACGAGGGC 59
chr-9.trna37-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUUUGAGGGC 59
chr-9.trna38-Leu-CAA     GUCAAGAUGACCGAG-UGGUCUAAGGCACCAGACUCAAGUUCUGGUCCUCGUUUGAGGGA 59
chr-7.trna76-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-3.trna6-Leu-TAG      GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-5.trna46-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-5.trna45-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-5.trna44-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-9.trna30-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-9.trna34-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-1.trna17-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-3.trna61-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-9.trna23-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GUAAGGGC 55
chr-1.trna33-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-2.trna49-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-11.trna29-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-2.trna50-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-9.trna10-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-3.trna33-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-3.trna68-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-10.trna42-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-7.trna55-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-7.trna62-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-10.trna29-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-1.trna50-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGU 56
chr-3.trna34-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGU 56
chr-2.trna67-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-8.trna35-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-8.trna30-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-4.trna43-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-6.trna15-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-11.trna28-Leu-CAA    GCCUUGGUGGUGAAA-UGAU-AGACACGCAAGACUCAAAAUCUCGUGCU--AAAGAGCGU 56
chr-11.trna5-Leu-TAA     GCUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCACAU------AAGUGCGC 52
chr-7.trna14-Leu-TAG     GGACAUUUGAUCUAG-UGGU--AUGAUUCUUGGUUUAGGUGCGAGA----------GGUU 47
                         .........10........20........30........40........50.........
                         ((((((.......)))))).)))))))).
chr-1.trna32-Leu-TAA     AUGGGUUCGAACCCCAU-AGCCAGCA 83
chr-5.trna2-Leu-TAA      GUGGGUUCGAACCCCAC-AGCCAGCA 83
chr-6.trna19-Leu-TAA     GUGGGUUCGAACCCCAC-AGCCAGCA 83
chr-7.trna52-Leu-TAA     GUGGGUUCGAACCCCAC-AGCCUGCA 83
chr-7.trna56-Leu-TAA     GUGGGUUCGAACCCCAC-AGCCUGCA 83
chr-5.trna3-Leu-TAA      GUGGGUUCGAACCCCACAGACCAGCA 84
chr-2.trna23-Leu-CAA     GUGGGUUCAAAUCCCAC-UUCUGACA 84
chr-2.trna61-Leu-CAA     GUGGGUUCAAAUCCCAC-UUCUGACA 84
chr-3.trna53-Leu-CAA     GUGGGUUCAAAUCCCAC-UUCUGACA 84
chr-8.trna46-Leu-CAA     GUGGGUUCAAAUCCCAC-UUCUGACA 84
chr-11.trna25-Leu-CAA    GUGGGUUCAAAUCCCAC-UUCUGACA 84
chr-11.trna3-Leu-CAA     GUGGGUUCAAAUCCCAC-UUCUGACA 84
chr-11.trna11-Leu-CAA    GUGGGUUCAAAUCCCAC-UUCUGACA 84
chr-11.trna26-Leu-CAA    GUGGGUUCAAAUCCCAG-UUCUGACA 84
chr-6.trna2-Leu-CAA      GUGGGUUCAAAUCCCAC-UUCUGACA 84
chr-9.trna21-Leu-CAA     GUGGGUUCAAAUCCCAC-UUCUGACA 84
chr-9.trna20-Leu-CAA     GUGGGUUCAAAUCCCAC-UUCUGACA 84
chr-9.trna37-Leu-CAA     GUGGGUUCAAAUCCCAC-UUCUGACA 84
chr-9.trna38-Leu-CAA     GUGGAUUCAAAUCCCAC-UUCUGACA 84
chr-7.trna76-Leu-TAG     GUGGGUUCAAAUCCCAC-AGCUGUCA 80
chr-3.trna6-Leu-TAG      GUGGGUUCAAAUCCCAC-AGCUGUCA 80
chr-5.trna46-Leu-TAG     GUGGGUUCAAAUCCCAC-AGCUGUCA 80
chr-5.trna45-Leu-TAG     GUGGGUUCAAAUCCCAC-AGCUGUCA 80
chr-5.trna44-Leu-TAG     GUGGGUUCAAAUCCCAC-AGCUGUCA 80
chr-9.trna30-Leu-TAG     GUGGGUUCAAAUCCCAC-AGCUGUCA 80
chr-9.trna34-Leu-TAG     GUGGGUUCAAAUCCCAC-AGCUGUCA 80
chr-1.trna17-Leu-TAG     GUGGGUUCAAAUCCCAC-AGCUGUCA 80
chr-3.trna61-Leu-TAG     GUGGGUUCAAAUCCCAC-AGCUGUCA 80
chr-9.trna23-Leu-TAG     GUGGGUUCAAAUCCCAC-AGCUGUCA 80
chr-1.trna33-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAACA 81
chr-2.trna49-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAACA 81
chr-11.trna29-Leu-AAG    GUGGGUUCAAAUCCCAC-UCUCAACA 81
chr-2.trna50-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAACA 81
chr-9.trna10-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAACA 81
chr-3.trna33-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAACA 81
chr-3.trna68-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAACA 81
chr-10.trna42-Leu-AAG    GUGGGUUCAAAUCCCAC-UCUCAACA 81
chr-7.trna55-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAACA 81
chr-7.trna62-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAACA 81
chr-10.trna29-Leu-AAG    GUGGGUUCAAAUCCCAC-UCUCAACA 81
chr-1.trna50-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAACA 81
chr-3.trna34-Leu-AAG     GUGGGUUCAAAUCCCAC-UCUCAACA 81
chr-2.trna67-Leu-CAG     AUGGGUUCGAAUCCCAU-UCUUGACA 81
chr-8.trna35-Leu-CAG     AUGGGUUCGAAUCCCAU-UCUUGACA 81
chr-8.trna30-Leu-CAG     AUGGGUUCGAAUCCCAU-UCUUGACA 81
chr-4.trna43-Leu-CAG     AUGGGUUCGAAUCCCAU-UCUUGACA 81
chr-6.trna15-Leu-CAG     AUGGGUUCGAAUCCCAU-UCUUGACA 81
chr-11.trna28-Leu-CAA    GGAGGUUCGAAUCCUCU-UCAAGGCG 81
chr-11.trna5-Leu-TAA     GUGGGUUCGAACCCCAC-AGCCAGCA 77
chr-7.trna14-Leu-TAG     CCGAGUUCGAUUCUCGGAAAGCCCC- 72
                         .........70........80.....
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