```
                                (((.....((((.(((((.........)))))(((((.......)))))...((.(((..
chr-1.trna256-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna223-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna224-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-7.trna54-Asp-GTC     GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna244-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-7.trna22-Asp-GTC     GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna258-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-6.trna321-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna259-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna260-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna291-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna322-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna324-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-4.trna219-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna325-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna327-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna354-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-3.trna475-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-7.trna434-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-3.trna147-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna355-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-3.trna112-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna387-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
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chr-3.trna20-Asp-GTC     GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna567-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-2.trna505-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-2.trna125-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-2.trna369-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUGAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-7.trna408-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-C 53
chr-1.trna366-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-3.trna129-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGA-U 53
chr-2.trna50-Asp-GTC     GUA-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna430-Asp-GTC    GUC-----AUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCAGG-U 53
chr-1.trna323-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUUCCGCCUGUCACGCGGGUGACCCGGGGU 54
chr-4.trna264-Asp-GTC    GUC-----GUUGUA-UAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 52
chr-7.trna475-Asp-GTC    GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGUCUGUCACGCGGGUGACACGGU-U 53
chr-7.trna26-Asp-GTC     GUC-----GUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGCGGGUGACCCGGG-U 53
chr-1.trna257-Asp-GTC    GUC-----AUUGUAGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGGGGUGACCCGGG-U 53
chr-3.trna57-Asp-GTC     GUC-----GUUGUGGUAUAG-UGGUAAGUAUUCCCGCCUGUCACGUGGGUGACCCGGG-U 53
chr-7.trna476-Asp-GTC    GUU-----GUUGCAGUAUAG-UGCUAAGUAUUCCCGCCUGUCACCCGGGUGACCCGGG-U 53
chr-7.trna477-Asp-GTC    GUC-----GUUGUAGUAUAG-UG-UAAGUAUUCCCGCCUGUCAUGCGGGUGACCAGUG-U 52
chr-1.trna255-Asp-GTC    GUC-----GUUGUAG--UAG-UGGUAAGUAUUCCCGCCUGUCAUGCGGGUGACCCGGG-U 51
chr-7.trna432-Asp-GTC    ACCAAGUGGUUGUAGUAUAG-UG-UAAGUAUUACCGCCUGUCAUGCGGGUGACCCGGG-U 57
chr-1.trna189-Asp-GTC    GGG----G-AAAUAGCUCAGUUGGUUAGAGUGCUGGUCUGUCACGCAAGAAGUCGCGGGU 55
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chr-3.trna11-Asp-GTC     GGG----G-AAAUAGCUCAGUUGGUUAGAGUGCUGGUCUGUCACGCCAGAAGUCACGGGU 55
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chr-7.trna110-Asp-GTC    GGG----G-AAAUAGCUCAGUUGGUUAGAGUGCUGGUCUGUCACGCCAGAAGUCGCGGGU 55
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chr-4.trna212-Asp-GTC    GGG----G-AAAUAGCUCAGUUGGUUACAGUGCUGGUCUGUCACGCCAGAAGUCGCGGGU 55
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chr-5.trna389-Asp-GTC    GGG----GUAAAUAGCUCGGUUGGUUAGAGUGCUGGUCUGUCACGCCAGAAGUCGCGGGU 56
chr-4.trna97-Asp-GTC     GUU----G-AAAUAGCUCAGUUGGUUAGAGUGCUGGUCUGUCACGCCAGAAGUCGCGGGU 55
chr-1.trna545-Asp-GTC    GGG----A-UUGUAGUUCAAUUGGUCAGAGCACCGCCCUGUCAAGGCGGAAGCUGCGGGU 55
chr-5.trna2-Asp-GTC      GGG----A-UUGUAGUUCAAUUGGUCAGAGCACCGCCCUGUCAAGGCGGAAGCUGCGGGU 55
chr-2.trna7-Asp-GTC      GGG----A-UUGUAGUUCAAUUGGUCAGAGCACCGCCCUGUCAAGGCGGAAGUUGCGGGU 55
chr-7.trna28-Asp-GTC     GGG----A-UUGUAGUUCAAUUGGUCAGAGCACCGCCCUGUCAAGGCGGAAGUUGCGGGU 55
chr-4.trna16-Asp-GTC     GGG----A-UUGUAGUUCAAUUGGUCAGAGCACCGCCCUGUCAAGGCGGAAGCUGCGGGU 55
chr-1.trna46-Asp-GTC     GGG----G-AAAUAGCUCAGUUGGUUAGAGUGAUGGUCUGUCAUGCCAGAAGUCGCGGGU 55
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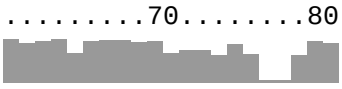
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chr-7.trna477-Asp-GTC    UCGAUCACCGGCAACG--GUG 71
chr-1.trna255-Asp-GTC    UCGAUCCCCGGCACUA--ACA 70
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chr-5.trna276-Asp-GTC    UCGAACCCCGUUUUCC--CCG 74
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chr-3.trna217-Asp-GTC    UCGAACCCCGUUUUCC--CCG 74
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chr-4.trna212-Asp-GTC    UCGAACCCUGUUUUCC--CCG 74
chr-3.trna109-Asp-GTC    UCGAACCCCGUUUUCC--CCG 74
chr-2.trna95-Asp-GTC     UUGAACCCCGUUUUCC--CCA 74
chr-5.trna389-Asp-GTC    UCGAACCCCGUUUUCC--CCA 75
chr-4.trna97-Asp-GTC     UCGAACCCCGUUUCCG--CCC 74
chr-1.trna545-Asp-GTC    UUGAGCCCCGUCAGUC--CCG 74
chr-5.trna2-Asp-GTC      UCGAGCCCCAUCAGUC--UCG 74
chr-2.trna7-Asp-GTC      UCGAGCCCCGUCAGUC--CCG 74
chr-7.trna28-Asp-GTC     UCGAGCCCCGUCAGUC--CCG 74
chr-4.trna16-Asp-GTC     UCAAGCCCCGUCAGUC--CCG 74
chr-1.trna46-Asp-GTC     UCGAACCCCGUUUCCCUACCG 76
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