```
                          .(((((((..((((.........)))).(((((.......)))))).....(((((.....
chr-1.trna92-Phe-GAA      -GUUCAGGUAGCUCAGAUAAUUAGAGCAAAGGAAUGAAAAUCCUUGUGUCAAUGGUUCGA 59
chr-8.trna159-Phe-GAA     -GUUCAGGUAGCUCAGUUGGUUAGAGCAAAGGACUGAAAAUCCUUGUAUCAAUCAUUUGA 59
chr-1.trna141-Phe-GAA     -AUUCAGGUAGCUCAGCUGGUUAGAGAAAAGGACUGAAAAUCCUUGUGUCAGUGGUUCGA 59
chr-2.trna86-Phe-GAA      -GUUCAGGUAGCUCAGCUGGUUAGAGCAAAGGACUGAAAAUCCUUGUGUCAGUGGUUCGA 59
chr-7.trna20-Phe-GAA      -GUUCAGGUAGCUCAGCUGGUUAGAGCAAAGGACUGAAAAUCCUUGUGUCAGUGGUUCGA 59
chr-8.trna24-Phe-GAA      -GUUCAGGUAGCUCAGCUGGUUAGAGCAAAGGACUGAAAAUCCUUGUGUCAGUGGUUCGA 59
chr-1.trna27-Phe-GAA      -GUUCAGGUAGCUCAGCUGGUUAGAGCAAAGGACUGAAAAUCCAUGUAUGAGUGGUUCGA 59
chr-2.trna65-Phe-GAA      -GUUCAGGUAGCUCAGCUGGUUAGAGCAAUGGACUGAAAAUACUUCUGUCAGUGGUUCGA 59
chr-9.trna46-Phe-GAA      GGUUCAGGUAGCUAAGCCGGUUAGAGCAAAGGACUGAAAAUCCUUGUGUCAGUGGUUUGA 60
chr-11.trna176-Phe-GAA    GGUUCAGGUAGCUAAGCCGGUUAGAGCAAAGGACUGAAAAUCCUUGUGUCAGUGGUUUGA 60
chr-10.trna38-Phe-GAA     ---UCAGGUAGCUCAGUUGGUUAGACCAAAGGAUUGAAAAUCCUUAUGUCAGUGGUUUGA 57
chr-7.trna54-Phe-GAA      -GCCGGGAUAGCUUAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCAUCUCACCAGUUCAA 58
chr-11.trna50-Phe-GAA     -GCCGGGAUAUCUUAGUUGG-UAGAGCAGAGGACUGAAAAUCCUUGUGUCACCAGUUCAA 58
chr-2.trna18-Phe-GAA      -GCCGGGAUAGCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUCAA 58
chr-11.trna163-Phe-GAA    -GCCAGGAUAGCUCAAUUGG-UAGAACAGAGGACUGAAAAUCCUUGUGUCACCAGUUCAA 58
chr-7.trna60-Phe-GAA      -GCCAGGAUAGCUCAGUUGG-UAGAGAAGAGGACUGAAAAUCCUCGUGUCACCAGUUCAA 58
chr-8.trna51-Phe-GAA      -GCCGGGAUAGCUCAGUUGG-UAAAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUCAA 58
chr-8.trna88-Phe-GAA      -GCCGGGAUAGCUCAGUUGG-UAGAGCAAAGGAUUGAAAAUCCUCGUGUCACCAGUUCAA 58
chr-11.trna105-Phe-GAA    -GUUGGGAUAGCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACUAGUUCAA 58
chr-11.trna37-Phe-GAA     -GCCGGGAUAACUUAGUUGG-UAGAGUAGAGGAAUGAAAAUCCUUGUGUCACCAGUUCAA 58
chr-10.trna16-Phe-GAA     -GCCGGGAUAGCUCAGUUAG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUCAA 58
chr-5.trna60-Phe-GAA      -GCCGGGAUACCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUCAA 58
chr-8.trna142-Phe-GAA     -GCCUGGAUAGCUCAGUUGG-UAGAGUAGAGGACUGAAAAUCCUCGUGUCACCAGUUCAA 58
chr-8.trna150-Phe-GAA     -GCCUGGAUAGCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUCAA 58
chr-5.trna85-Phe-GAA      -GCUGGGAUAUCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCAAUAAUUCAA 58
chr-1.trna113-Phe-GAA     -GCUGGGAUAGCUC-GUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUCAA 57
chr-6.trna42-Phe-GAA      -GCCGGGAUAGCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUCAA 58
chr-1.trna88-Phe-GAA      -GCGGGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-1.trna100-Phe-GAA     -GCGGGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-2.trna61-Phe-GAA      -GCGGGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-3.trna17-Phe-GAA      -GCGGGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-4.trna9-Phe-GAA       -GCGGGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-10.trna5-Phe-GAA      -GCGGGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-7.trna73-Phe-GAA      -GCGGGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-7.trna76-Phe-GAA      -GCGGGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-7.trna92-Phe-GAA      -GCGGGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-10.trna124-Phe-GAA    -GCGGGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-7.trna93-Phe-GAA      -GCGGGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-8.trna82-Phe-GAA      -GCGGGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-7.trna94-Phe-GAA      -GCGGGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-7.trna77-Phe-GAA      -GCGAGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-10.trna112-Phe-GAA    -GUGGGGAUAGCUCAGUUGG-GAGAGCGUCAGGCUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-1.trna159-Phe-GAA     -GUUGAGGUAGCUCAGUUUC-UAGAGUAGAGGACUGAAAAUCCUCGUGUCACAAGUUCAA 58
chr-4.trna69-Phe-GAA      -GGAGAGAUGGUCGAGUGGUUUAAGGCGGAGCAUUGAAAUUGUUUA--UCAAGGGUUCGA 57
chr-7.trna74-Phe-GAA      -GCGAGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-7.trna75-Phe-GAA      -GCGAGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUCGA 58
chr-6.trna123-Phe-GAA     -GAGUCCUUAGCUAAGU--GACAGAGUAUUUGACUGAAGAUCAAGAGGUCACUAGUUCAA 57
chr-4.trna66-Phe-GAA      -GGAGAGAUGGCUGAGUGGCUUAAGGACUAGCAUUGAAAUUGCUAUGUAGGCUUUUGUUU 59
chr-7.trna56-Phe-GAA      -GGAGAGAUGGUUGAGUGGUUUAAGGCGUAACAUUGAAACUGCUAUGUAGGCUUUUAUUU 59
chr-11.trna173-Phe-GAA    -GUAGAGAUGGCGGGUGGUUCAAGGCGUAGCAUUGAACCUGCUAUGUAGGCUUUUGUUU 59
                          .........10.........20.........30.........40.........50.........

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chr-1.trna92-Phe-GAA      AUC--CACUUCUA----------AGCA 74
chr-8.trna159-Phe-GAA     AUC--CACUUCUA----------AGCA 74
chr-1.trna141-Phe-GAA     AUC--CACUUCUA----------AGCA 74
chr-2.trna86-Phe-GAA      AUC--CACUUCUA----------AGCA 74
chr-7.trna20-Phe-GAA      AUC--CACUUCUA----------AGCA 74
chr-8.trna24-Phe-GAA      AUC--CACUUCAA----------AGCA 74
chr-1.trna27-Phe-GAA      AUC--CACUUCUA----------AGCA 74
chr-2.trna65-Phe-GAA      AUC--CACUUCUA----------AGCA 74
chr-9.trna46-Phe-GAA      AUC--CACUUCUA----------ACCA 75
chr-11.trna176-Phe-GAA    AUC--CACUUCCA----------ACCA 75
chr-10.trna38-Phe-GAA     AUC--CACUUCUA----------AGAA 72
chr-7.trna54-Phe-GAA      AUC--UGUUUCCU----------GGCA 73
chr-11.trna50-Phe-GAA     AUA--UGGUUUCU----------GGCA 73
chr-2.trna18-Phe-GAA      AUC--UGAUUCCU----------GGCA 73
chr-11.trna163-Phe-GAA    AUU--UGGUUCUU----------GGCA 73
chr-7.trna60-Phe-GAA      AUU--UGGUUCCU----------GGUA 73
chr-8.trna51-Phe-GAA      AUC--UGGUUCCU----------AGCA 73
chr-8.trna88-Phe-GAA      AUC--UGAUUCCU----------GGCA 73
chr-11.trna105-Phe-GAA    AUC--UUGUUCCU----------GGCA 73
chr-11.trna37-Phe-GAA     AUC--UGGUUCCU----------GGCA 73
chr-10.trna16-Phe-GAA     AUC--UGGUUCCU----------GGCA 73
chr-5.trna60-Phe-GAA      AUC--UGGUUCCU----------GGCA 73
chr-8.trna142-Phe-GAA     AUC--UGGUUCCU----------GGCA 73
chr-8.trna150-Phe-GAA     AUC--UGGUUCCU----------GGCA 73
chr-5.trna85-Phe-GAA      AUA--UGGUUCCU----------GGUA 73
chr-1.trna113-Phe-GAA     AUC--UGGUUCCU----------GGCA 72
chr-6.trna42-Phe-GAA      AUC--UGAUUUGU----------GACA 73
chr-1.trna88-Phe-GAA      UCC--ACGUUCAC----------CGCA 73
chr-1.trna100-Phe-GAA     UCC--ACGUUCAC----------CGCA 73
chr-2.trna61-Phe-GAA      UCC--ACGUUCAC----------CGCA 73
chr-3.trna17-Phe-GAA      UCC--ACGUUCAC----------CGCA 73
chr-4.trna9-Phe-GAA       UCC--ACGUUCAC----------CGCA 73
chr-10.trna5-Phe-GAA      UCC--ACGUUCAC----------CGCA 73
chr-7.trna73-Phe-GAA      UCC--ACGUUCAC----------CGCA 73
chr-7.trna76-Phe-GAA      UCC--ACGUUCAC----------CGCA 73
chr-7.trna92-Phe-GAA      UCC--ACGUUCAC----------CGCA 73
chr-10.trna124-Phe-GAA    UCC--ACGUUCAC----------CGCA 73
chr-7.trna93-Phe-GAA      UCC--ACGUUCAC----------CGCA 73
chr-8.trna82-Phe-GAA      UCC--ACGUUCAC----------CGCA 73
chr-7.trna94-Phe-GAA      UCC--ACGUUCAC----------CGCA 73
chr-7.trna77-Phe-GAA      UCC--ACGUUCAC----------CGCA 73
chr-10.trna112-Phe-GAA    UCC--ACGUUCAC----------UGCA 73
chr-1.trna159-Phe-GAA     AUA--UGGUUCUU----------GGCA 73
chr-4.trna69-Phe-GAA      AUC--CCUCUCUU----------UCCG 72
chr-7.trna74-Phe-GAA      UCC--ACGUUCGAUUCCCGGUUGGUGCA 84
chr-7.trna75-Phe-GAA      UCC--ACGUUCGAUUCCCGGUUGGUGCA 84
chr-6.trna123-Phe-GAA     AUU--UGGCAGGA--CGUUUUUUAUUCA 81
chr-4.trna66-Phe-GAA      ACCGAGGGUUCGAAUCCCUCUCUUUCCG 87
chr-7.trna56-Phe-GAA      ACUGAGGGUUCGAAUCCCUCUCUUUCCA 87
chr-11.trna173-Phe-GAA    ACCGAAGGUUCGAAUCCCUCUCUUUCG 87
                          .........70.........80.......
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