```
                                (((...(.((..((((.........)))).(((((.......)))))).....(((((...
chr-7.trna46-Phe-GAA     UGC---GAGAUGUUUCAGUUGG-GAGAGUGUCAAAUUGAAGAUCUAAAGGUCACAUGUUU 56
chr-5.trna8-Phe-GAA      GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-4.trna53-Phe-GAA     GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-4.trna57-Phe-GAA     GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-11.trna31-Phe-GAA    GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-4.trna7-Phe-GAA      GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-4.trna87-Phe-GAA     GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-7.trna39-Phe-GAA     GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-7.trna42-Phe-GAA     GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-4.trna3-Phe-GAA      GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-7.trna61-Phe-GAA     GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-7.trna62-Phe-GAA     GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-9.trna46-Phe-GAA     GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-9.trna47-Phe-GAA     GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-10.trna124-Phe-GAA   GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-7.trna40-Phe-GAA     GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-4.trna6-Phe-GAA      GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-7.trna57-Phe-GAA     GCG---GGGAUAGCUCAGCUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-12.trna88-Phe-GAA    GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGACGGUCGCGUAUUC 56
chr-4.trna5-Phe-GAA      GUG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGUUCGCGUGUUC 56
chr-4.trna4-Phe-GAA      GUG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-7.trna47-Phe-GAA     GCG---AGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-7.trna60-Phe-GAA     GCU---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUUC 56
chr-13.trna78-Phe-GAA    GCG---GGGAUAGCUCAGUUGG-GAGAGUGUCAGACUGAAGAUCUGAAAGUCGCGUGUUC 56
chr-4.trna2-Phe-GAA      GCG---GGGAUAGCUCAGUUGG-GAGAGCGUCAGACUGAAGAUCUCAAGGUCGCGUG-UC 55
chr-7.trna54-Phe-GAA     GCG---AAGAUAGCUCAGUUAG-GAGAGCGUCAGACUGAAGAUCUGAAGGUCACAUGUUC 56
chr-7.trna53-Phe-GAA     GCG---AGGAUAGCUUAGUUGG-GAGAGCAUCAGAUUGAAGAUCUGAAGGUCACGUGUUU 56
chr-7.trna50-Phe-GAA     GCG---AGGAUAGCUGAGUUGG-GAGAGCGUCAGAUUGAAGAUUUGAAGGUUACGUGUUU 56
chr-11.trna66-Phe-GAA    GUG---GGGAUAGCUUAGUUGG-GAAAGCAUCAGAUUGAAGAUUUAAAGGUUGUGUGUUU 56
chr-13.trna124-Phe-GAA   GUU---CAGGUAGCUCAGCUGGUUAGAGCAAAGGACUGAAAAUCCUUGUGUCAGUGGUUC 57
chr-10.trna9-Phe-GAA     GCCCAACGGAUAGCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUC 59
chr-12.trna1-Phe-GAA     GUC---GGGAUAGCUCAGUUGG-UAGAGAAGAGGACUGAAAAUCCUCGUGUCACUAGUUC 56
chr-10.trna19-Phe-GAA    GUU---GGGAUAGCACAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACUAGUUC 56
chr-11.trna70-Phe-GAA    GUC---GGGAUAGCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUUGUGUCACCAGUUC 56
chr-11.trna107-Phe-GAA   GUC---GAGAUAGCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUC 56
chr-6.trna60-Phe-GAA     GGUC--GGGAUAGCUCAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUUU 57
chr-3.trna42-Phe-GAA     G-------GAUAGCAAAGUUGG-UAGAGCAGAGGACUGAAAAUCCUCAUGUCACCAGUUC 52
                         .........10........20........30........40........50.........

                         ....)))))))..)))).
chr-7.trna46-Phe-GAA     GAACCAUGUUCAUCGCAU 74
chr-5.trna8-Phe-GAA      GAUCCACGUUCA-CCGCA 73
chr-4.trna53-Phe-GAA     GAUCCACGCUCA-CCGCA 73
chr-4.trna57-Phe-GAA     GAUCCACGCUCA-CCGCA 73
chr-11.trna31-Phe-GAA    GAUCCACGCUCA-CCGCA 73
chr-4.trna7-Phe-GAA      GAUCCACGCUCA-CCGCA 73
chr-4.trna87-Phe-GAA     GAUCCACGCUCA-CCGCA 73
chr-7.trna39-Phe-GAA     GAUCCACGCUCA-CCGCA 73
chr-7.trna42-Phe-GAA     GAUCCACGCUCA-CCGCA 73
chr-4.trna3-Phe-GAA      GAUCCACGCUCA-CCGCA 73
chr-7.trna61-Phe-GAA     GAUCCACGCUCA-CCGCA 73
chr-7.trna62-Phe-GAA     GAUCCACGCUCA-CCGCA 73
chr-9.trna46-Phe-GAA     GAUCCACGCUCA-CCGCA 73
chr-9.trna47-Phe-GAA     GAUCCACGCUCA-CCGCA 73
chr-10.trna124-Phe-GAA   GAUCCACGCUCA-CCGCA 73
chr-7.trna40-Phe-GAA     GAUCCACGUUCA-CCGCA 73
chr-4.trna6-Phe-GAA      GAUCCACGCUCA-UCGCA 73
chr-7.trna57-Phe-GAA     GAUCCACGCUCA-CCGCA 73
chr-12.trna88-Phe-GAA    GAUCCACGCUCA-CCGCA 73
chr-4.trna5-Phe-GAA      GAUCCACGCUCA-GCGCA 73
chr-4.trna4-Phe-GAA      GAUCCUCGCUCA-CCGCA 73
chr-7.trna47-Phe-GAA     AAUCCACGUUCA-UCGCA 73
chr-7.trna60-Phe-GAA     GAUCCACGUUCA-CCGCA 73
chr-13.trna78-Phe-GAA    GAUCCACACUCA-CCGCA 73
chr-4.trna2-Phe-GAA      GAUCCACGCUCA-CCGCA 72
chr-7.trna54-Phe-GAA     GAUCCACAUUCA-UCGCA 73
chr-7.trna53-Phe-GAA     GAUCCACGUUCA-CCCCA 73
chr-7.trna50-Phe-GAA     GAUCCACGUUUA-UCACA 73
chr-11.trna66-Phe-GAA    GACCCACACUCA-CCACA 73
chr-13.trna124-Phe-GAA   GAAUCCACUUCU-AAGCG 74
chr-10.trna9-Phe-GAA     AAAUCUGGUUCC-UGGCA 76
chr-12.trna1-Phe-GAA     AAAUCUGGUUCC-UGGCA 73
chr-10.trna19-Phe-GAA    AAAUCUGGUUCC-UGGCA 73
chr-11.trna70-Phe-GAA    AAAUCUGGUUCC-UGGCU 73
chr-11.trna107-Phe-GAA   AAAUCUGGUUCC-UGGCA 73
chr-6.trna60-Phe-GAA     AAAUCUGGUG---AACCA 72
chr-3.trna42-Phe-GAA     AAAGCUGGUU-ACAAGCA 69
                         .........70.......
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