```
                                 ((((..((....(((....))))...((.(.((((((....).)))))).).))))))...
chr-7.trna25-Phe-GAA     AUGG-GGAU-AGCUUAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGUGUGUU- 55
chr-1.trna11-Phe-GAA     GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-1.trna54-Phe-GAA     GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-11.trna39-Phe-GAA    GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-7.trna72-Phe-GAA     GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-1.trna86-Phe-GAA     GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-1.trna101-Phe-GAA    GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-1.trna10-Phe-GAA     GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-2.trna12-Phe-GAA     GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-4.trna28-Phe-GAA     GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-4.trna55-Phe-GAA     GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-4.trna71-Phe-GAA     GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-4.trna72-Phe-GAA     GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-7.trna5-Phe-GAA      GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-4.trna86-Phe-GAA     GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-5.trna25-Phe-GAA     GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-5.trna15-Phe-GAA     GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-5.trna8-Phe-GAA      GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-5.trna7-Phe-GAA      GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-4.trna95-Phe-GAA     GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-2.trna10-Phe-GAA     GCGG-GGAU-AGCUCAGUUGGG--AGAGCGUCAGAUUGAAGAUCUGAAGGUCGCGUGUU- 55
chr-7.trna27-Phe-GAA     GCGG-AGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCAGAAGGUCAUGUGUU- 55
chr-7.trna28-Phe-GAA     GCGG-AGAU-AGCUCAGUUGGG--AGAGCGUCAGACUGAAGAUCAGAAGGUCAUGUGUU- 55
chr-7.trna15-Phe-GAA     GUGG-GGAU-AGCUCGGUUGGG--AGACCGUCAGACUGAAGAUCUGAAGGUCACGUGUU- 55
chr-7.trna23-Phe-GAA     ACGA-GGAU-AGCUCUGUUGGG--AGAGCGUUAGACUGAAAAUCUAAAGGUCAUGUGUU- 55
chr-7.trna22-Phe-GAA     ACGA-GGAU-AGCUCUGUUGGG--AGAGCGUUAGACUGAAAAUCUAAAGGUCAUGUGUU- 55
chr-4.trna70-Phe-GAA     GCGG-GGAU-AG-UCAG-UGGG--AGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU- 53
chr-5.trna26-Phe-GAA     AACG-GGAU-AACUCAGUUAUG--AGAGCGUCAGACUGAAGAUCUAAUGGUUGCGUGUU- 55
chr-7.trna71-Phe-GAA     GCGG-GGAUAGCUCAGUUGGG--A-AGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUUC 56
chr-11.trna61-Phe-GAA    GCUU-AGGU-AGCUCAGCAUGGUUAGAGCAAAGGACUGAAAAUCCAUGUGUCAGUGGUU- 57
chr-7.trna17-Phe-GAA     GUCAUGGGAUAGCUUAGUUGGG--AGAGCAUUAGACUGAAAAUCUAAAGGUCAUGUGUU- 57
                         .........10........20........30........40........50.........

                                 .....)))))))........))))).
chr-7.trna25-Phe-GAA     CGAUCCACACUCC--------UCGCA 73
chr-1.trna11-Phe-GAA     CGAUCCACGCUCA--------CCGCA 73
chr-1.trna54-Phe-GAA     CGAUCCACGCUCA--------CCGCA 73
chr-11.trna39-Phe-GAA    CGAUCCACGCUCA--------CCGCA 73
chr-7.trna72-Phe-GAA     CGAUCCACGCUCA--------CCGCA 73
chr-1.trna86-Phe-GAA     CGAUCCACGCUCA--------CCGCA 73
chr-1.trna101-Phe-GAA    CGAUCCACGCUCA--------CCGCA 73
chr-1.trna10-Phe-GAA     CGAUCCACGCUCA--------CCGCA 73
chr-2.trna12-Phe-GAA     CGAUCCACGCUCA--------CCGCA 73
chr-4.trna28-Phe-GAA     CGAUCCACGCUCA--------CCGCA 73
chr-4.trna55-Phe-GAA     CGAUCCACGCUCA--------CCGCA 73
chr-4.trna71-Phe-GAA     CGAUCCACGCUCA--------CCGCA 73
chr-4.trna72-Phe-GAA     CGAUCCACGCUCA--------CCGCA 73
chr-7.trna5-Phe-GAA      CGAUCCACGCUCA--------CCGCA 73
chr-4.trna86-Phe-GAA     CGAUCCACGCUCA--------CCGCA 73
chr-5.trna25-Phe-GAA     CGAUCCACGCUCA--------CCGCA 73
chr-5.trna15-Phe-GAA     CGAUCCACGCUCA--------CCGCA 73
chr-5.trna8-Phe-GAA      CGAUCCACGCUCA--------CCGCA 73
chr-5.trna7-Phe-GAA      CGAUCCACGCUCA--------CCGCA 73
chr-4.trna95-Phe-GAA     CGAUCCACGCUCA--------CCGCA 73
chr-2.trna10-Phe-GAA     CGAUCCACGCUCA--------CCGCA 73
chr-7.trna27-Phe-GAA     UGAUCCACACUCA--------UCGUA 73
chr-7.trna28-Phe-GAA     UGAUCCACACUCA--------UCGUA 73
chr-7.trna15-Phe-GAA     UGAUCCACAAUCA--------UCGCA 73
chr-7.trna23-Phe-GAA     CCAUCCACGCUCA--------UCGCA 73
chr-7.trna22-Phe-GAA     CCAUCCACGCUCA--------UCGCA 73
chr-4.trna70-Phe-GAA     CGAUCCACGCUCA--------CCGCA 71
chr-5.trna26-Phe-GAA     CAAUCCACGCUCAU-------CGUAU 74
chr-7.trna71-Phe-GAA     CGAUCCCCCGCUCA-------CCGCA 75
chr-11.trna61-Phe-GAA    CGAAUCCACUUCU--------AAGCA 75
chr-7.trna17-Phe-GAA     CCAUCCACGCUCAUUUUGAUGUGACA 83
                         .........70........80.....
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