```
                                                 (((...(.((..((((.........)))).(((((.......)))))).....(((((..
chr-7.trna47-Phe-GAA     GUC---GAGAUAGCUCAAUUGG--UAGGGCAGAGGACUGAAAAUCCUCGUGUCACCAGUU 55
chr-23.trna26-Phe-GAA    GUC---AGGAUAGCUCAGUUGG--UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAAUU 55
chr-20.trna19-Phe-GAA    GUC---AGGAUAGCUCAAUUGG--UAGAGCAGAGGACUGAAAGUCCUCAUGUCACCAGUU 55
chr-16.trna33-Phe-GAA    GUC---GGGAUAGCUCAGUUGG--UAGAGAAGAGGAUUGAAAAUCCUCGUGUCACCAGUU 55
chr-5.trna2-Phe-GAA      GUC---GGGAUAGCUCAGUUGC--UAGAGCAGAGGACUGAAAUUCCUCGUGUCACCAGUU 55
chr-10.trna3-Phe-GAA     GUC---GAGAUAGCUCAGUUGG--UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUU 55
chr-21.trna33-Phe-GAA    GUC---AGGAUAGCUUAGUUGG--UAGAGCAAAGGACUGAAAAUUCUCGUGGCACCAGUU 55
chr-15.trna55-Phe-GAA    GUU---CAGGUAGCUCAGCUGG-UUAGAGCAAAGGACUGAAAAUCCUUGUGUCAGUGGUU 56
chr-13.trna22-Phe-GAA    GGU--CGGGAUAGCUCAGUUGG--UAGAGCAGAGGACUGAAAAUCCUCGUGUCACCAGUU 56
chr-4.trna49-Phe-GAA     GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUU 55
chr-26.trna41-Phe-GAA    GUG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAAGUCGCGUGUU 55
chr-6.trna48-Phe-GAA     GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-6.trna51-Phe-GAA     GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-26.trna42-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-2.trna48-Phe-GAA     GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-26.trna40-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-19.trna11-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-21.trna55-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-23.trna25-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-14.trna4-Phe-GAA     GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-26.trna24-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-26.trna14-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-26.trna43-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-24.trna50-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-21.trna12-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGCCGCGUGUU 55
chr-24.trna51-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-6.trna53-Phe-GAA     GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUU 55
chr-12.trna10-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUU 55
chr-19.trna10-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUU 55
chr-20.trna73-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUU 55
chr-15.trna12-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAAGUCGCGUGUU 55
chr-19.trna12-Phe-GAA    GUG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUU 55
chr-6.trna49-Phe-GAA     GCG---GGGAUAGAUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUU 55
chr-6.trna52-Phe-GAA     GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-21.trna11-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUUUU 55
chr-6.trna50-Phe-GAA     GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUU 55
chr-26.trna39-Phe-GAA    GCG---GGGAUAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUG-U 54
chr-19.trna5-Phe-GAA     GCG---AGGAUAGCUCAAUUAG--GAGAGCGUUAGACUGAAAAUUUGAAGUUCACGUGUU 55
chr-20.trna36-Phe-GAA    AUG---GGGGAAGCUCAGUUGG--GAGAGCGUCAGACUGAAGAUCUGAAGGUCGCGUGUU 55
chr-6.trna37-Phe-GAA     GCG---AGGAUAGCUCAAUUGG--GAGAGCGUUAGACUGAAGAUUGAAGGUCACGUGUU 55
chr-6.trna45-Phe-GAA     GUG---AGGAUAGCUCAAUUGA--GAGAGUGUUAGAUUGAAGUUUGAAGGUCACGUGUU 55
chr-6.trna42-Phe-GAA     GCG---AGGAUAGCUUAGUUGG--GAGAGCGUCAGAUUGAAGAUCUGAAGGUCACGUGUU 55
chr-6.trna43-Phe-GAA     GCG---AGGAUAGCUUAGUUGGAAGAGAGCGUCAGACUGAAGAUCUGAAGGUCACGUGUU 57
chr-12.trna45-Phe-GAA    GUG---GGGAUAGCUUAGUUGG--GAAAGCAUAAGAUUGAAGAUUUAAAGGUUGUGUGUU 55
chr-6.trna40-Phe-GAA     ACG---AGGAUAGCUCAGUUAG--GAGAGCAUCAGAUGGAAGAUCUAAAGGUCACGUGUU 55
chr-6.trna36-Phe-GAA     UGC---GAGAUAGCUCAGUUGG--GAGAGUGUCAAAUUGAAGAUCUAAAGGUCACAUGUU 55
chr-19.trna6-Phe-GAA     GCG---AGGAUAGCUCA-UUGG--GAGAGCAUCAGAAUGAAGAUCUGAAGAUCAUGUGUU 54
chr-20.trna74-Phe-GAA    AUUAUGGGGAUAGCUCAAUUGG--AAGAGCAUUAGAUUGAAUAUUUGAAGGUUACAUGUU 58
chr-20.trna13-Phe-GAA    GUG---GGGAUAGCUCAGUUGG--GAGAGCAUUAGACUGAAGAUCU-AAAGUCACGUGUU 54
                         .........10........20........30........40........50.........

                         .....)))))))...........)))).
chr-7.trna47-Phe-GAA     CAAAUCUAGUUC---------C-UGGCA 73
chr-23.trna26-Phe-GAA    CAAAUCUGGUUC---------C-UGGCU 73
chr-20.trna19-Phe-GAA    CAAAUCUGGUUC---------C-UGGCA 73
chr-16.trna33-Phe-GAA    CAAAUCUGGUUC---------C-UGGCA 73
chr-5.trna2-Phe-GAA      CAAAUCUGGUUC---------C-UGGCA 73
chr-10.trna3-Phe-GAA     CAAAUCUGGUUC---------C-UGGCA 73
chr-21.trna33-Phe-GAA    CAAAACUGGUUC---------U-UAGCA 73
chr-15.trna55-Phe-GAA    CGAAUCCACUUC---------U-AAGCG 74
chr-13.trna22-Phe-GAA    CAAAUCUGGUG-----------AACCA 72
chr-4.trna49-Phe-GAA     CGAUCCAUGUUC---------A-CCGCA 73
chr-26.trna41-Phe-GAA    CGAUCCACGUUC---------A-CCGCA 73
chr-6.trna48-Phe-GAA     CGAUCCACGCUC---------A-CCGCA 73
chr-6.trna51-Phe-GAA     CGAUCCACGCUC---------A-CCGCA 73
chr-26.trna42-Phe-GAA    CGAUCCACGCUC---------A-CCGCA 73
chr-2.trna48-Phe-GAA     CGAUCCACGCUC---------A-CCGCA 73
chr-26.trna40-Phe-GAA    CGAUCCACGCUC---------A-CCGCA 73
chr-19.trna11-Phe-GAA    CGAUCCACGCUC---------A-CCGCA 73
chr-21.trna55-Phe-GAA    CGAUCCACGCUC---------A-CCGCA 73
chr-23.trna25-Phe-GAA    CGAUCCACGCUC---------A-CCGCA 73
chr-14.trna4-Phe-GAA     CGAUCCACGCUC---------A-CCGCA 73
chr-26.trna24-Phe-GAA    CGAUCCACGCUC---------A-CCGCA 73
chr-26.trna14-Phe-GAA    CGAUCCACGCUC---------A-CCGCA 73
chr-26.trna43-Phe-GAA    CGAUCCACGCUC---------A-CCGCA 73
chr-24.trna50-Phe-GAA    CGAUCCACGCUC---------A-CCGCA 73
chr-21.trna12-Phe-GAA    CGAUCCACGCUC---------A-CCGCA 73
chr-24.trna51-Phe-GAA    CGAUCCGCGCUC---------A-CCGCA 73
chr-6.trna53-Phe-GAA     CGAUCCACGUUC---------A-CCGCA 73
chr-12.trna10-Phe-GAA    CGAUCCACGUUC---------A-CCGCA 73
chr-19.trna10-Phe-GAA    CGAUCCACGUUC---------A-CCGCA 73
chr-20.trna73-Phe-GAA    CGAUCCACGUUC---------A-CCGCA 73
chr-15.trna12-Phe-GAA    CGAUCCACGCUC---------A-CCGCA 73
chr-19.trna12-Phe-GAA    CGAUCCACGUUC---------A-CCGCA 73
chr-6.trna49-Phe-GAA     CGAUCCACGUUC---------A-CCGCA 73
chr-6.trna52-Phe-GAA     CGAUCCACUCUC---------A-CCGCA 73
chr-21.trna11-Phe-GAA    CGAUCCACGUUC---------A-CCGCA 73
chr-6.trna50-Phe-GAA     AGAUCCACGUUC---------A-CCGCG 73
chr-26.trna39-Phe-GAA    CGAUCCACGCUC---------A-CCGCA 72
chr-19.trna5-Phe-GAA     UGAUCCACGUUC---------A-UCGCA 73
chr-20.trna36-Phe-GAA    CGAUCCACGCUC---------A-CCGCA 73
chr-6.trna37-Phe-GAA     CAAUCCACAUUC---------A-UCGCA 73
chr-6.trna45-Phe-GAA     CAAUCCACAUUC---------A-UCACA 73
chr-6.trna42-Phe-GAA     UGAUCCACGUUC---------U-CCGCA 73
chr-6.trna43-Phe-GAA     CGAUCCAUGUUC---------A-UCGCA 75
chr-12.trna45-Phe-GAA    UGACCCACACUC---------A-CCACA 73
chr-6.trna40-Phe-GAA     UGAUCCACGUUC---------A-UUGCA 73
chr-6.trna36-Phe-GAA     UGAACCAUGUUC---------AUCGCAU 74
chr-19.trna6-Phe-GAA     CGGCCCACGUUC---------A-UCACA 72
chr-20.trna74-Phe-GAA    UGAUCAAUGUUU---------A-UAGUA 76
chr-20.trna13-Phe-GAA    UGAUCCAUGCUCGAUAAUAAUCCUAUA 82
                         .........70........80.......
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