```
                         (((((((...((((.....)))).)))).(((((.......)))))).....(((((.......
chr-3.trna26-Gly-TCC     GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAA-------CGGGUUCGAC- 52
chr-1.trna6-Gly-TCC      GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-12.trna29-Gly-TCC    GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-1.trna3-Gly-TCC      GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-12.trna30-Gly-TCC    GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-3.trna24-Gly-TCC     GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-3.trna36-Gly-TCC     GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-12.trna31-Gly-TCC    GUGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-8.trna34-Gly-TCC     GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-9.trna60-Gly-TCC     GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-9.trna61-Gly-TCC     GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-10.trna96-Gly-TCC    GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-10.trna95-Gly-TCC    GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-5.trna66-Gly-TCC     GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-10.trna94-Gly-TCC    GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-6.trna9-Gly-TCC      GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-3.trna50-Gly-TCC     GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUUGAC- 58
chr-9.trna63-Gly-TCC     GCUUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCGAC- 58
chr-3.trna25-Gly-TCC     GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-ACUCGGGUUUGAC- 58
chr-3.trna19-Gly-TCC     GUGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-AUCCGGGUUCGAC- 58
chr-3.trna48-Gly-TCC     GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-AUCUGGGUUCGAC- 58
chr-3.trna20-Gly-TCC     GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAAUAG-AUCCGGGUUCGAC- 58
chr-9.trna62-Gly-TCC     GCGUUUGUAGUCCAACGGUUAAGAUAAUUGCCUUCCAAGCAAUAG-ACCCGGGUUCAAC- 58
chr-3.trna49-Gly-TCC     GUGUUUGUAGUCCAACUGUUAGGAUAAUUGCCUUCCAAGCAAUAA-ACCUGGGUUCGAC- 58
chr-12.trna22-Gly-TCC    GCGUUUGUAGUCCAACGGUUAGGAUAAUUGCCUUCCAAGCAACCGAACCCUGGUUCGAC- 59
chr-6.trna35-Gly-TCC     GCAUUUGUAGUCCAACGGUUAAGAUAAUUGCCUUCCAAGUAAUAG-ACUCGGGUUCGAC- 58
chr-2.trna41-Gly-CCC     GCGCAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUG-ACCGGGGUUCGAU- 57
chr-11.trna16-Gly-CCC    GCGCAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUG-ACCGGGGUUCGAU- 57
chr-3.trna35-Gly-CCC     GCGCAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUG-ACCGGGGUUCGAU- 57
chr-5.trna32-Gly-CCC     GCGUAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUG-ACCGGGGUUCGAU- 57
chr-5.trna31-Gly-CCC     GCGCAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUG-ACCGGGGUUCGAU- 57
chr-9.trna22-Gly-CCC     GCGCAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUG-ACCGGGGUUCGAU- 57
chr-3.trna37-Gly-CCC     GCGCAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUG-ACCGGGGUUCGAU- 57
chr-5.trna75-Gly-CCC     GCGCAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACGGUACUG-ACCGGGGUUCGAU- 57
chr-11.trna15-Gly-CCC    GCGCAUCUAGUGUAGUGG-UAUCAUAGUACCCUCCCACUGAACUG-ACCGGGGUUCGAUU 58
chr-1.trna43-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-2.trna48-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-2.trna67-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-3.trna1-Gly-GCC      GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-3.trna29-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-11.trna62-Gly-GCC    GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-3.trna39-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-4.trna40-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-11.trna2-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-5.trna3-Gly-GCC      GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-5.trna80-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-6.trna13-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-9.trna78-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-6.trna59-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-7.trna10-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-7.trna11-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-7.trna12-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-7.trna14-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-9.trna59-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-9.trna58-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-7.trna31-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-7.trna13-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-2.trna35-Gly-GCC     GCACCAGUGGUUUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-7.trna30-Gly-GCC     GCACCAAUGGUCUAGUGG-UAGAAUAGUACCCUUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-7.trna2-Gly-GCC      GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCGCGGUACAG-ACCCGAGUUCGAU- 57
chr-11.trna64-Gly-GCC    GCACCAGUGGUUUAGUGG-UAGAAUAGUACCCUGCCACGGUACAA-AUCUGGGUUCGAU- 57
chr-2.trna50-Gly-GCC     GCACCAGUGGUCUAGUGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGAGUUCGAU- 57
chr-8.trna20-Gly-GCC     GCACCAGUGGUCUAGGGG-UAGAAUAGUACCCUGCCACGGUACAG-ACCCGGGUUCGAU- 57
chr-8.trna52-Gly-GCC     GUGAAUAUAGUUGAAUGG-UAAAAUUUCUCCUUGCCAAGGAGAAG-AUGUGGGUUCGAU- 57
chr-8.trna3-Gly-GCC      GUGAAUAUAGUUGAAUGG-UAAAAUUUCUCCUUGCCAAGGAGAAG-AUGUGGGUUCGAU- 57
chr-9.trna64-Gly-TCC     GAGUUUAUAGUCCAAUGGUUAG-AUAAUUGCUUUCCAAGCAAUAG-ACCCGGGUUGACUC 58
                         .........10........20........30........40........50.........
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                         ...)))))))))))).
chr-3.trna26-Gly-TCC     --UCCCGGCAAACGCA 66
chr-1.trna6-Gly-TCC      --UCCCGGCAAACGCA 72
chr-12.trna29-Gly-TCC    --UCCCGGCAAACGCA 72
chr-1.trna3-Gly-TCC      --UCCCGGCAAACGCA 72
chr-12.trna30-Gly-TCC    --UCCCGGCAAACGCA 72
chr-3.trna24-Gly-TCC     --UCCCGGCAAACGCA 72
chr-3.trna36-Gly-TCC     --UCCCGGCAAACGCA 72
chr-12.trna31-Gly-TCC    --UCCCGGCAAACGCA 72
chr-8.trna34-Gly-TCC     --UCCCGGCAAACGCA 72
chr-9.trna60-Gly-TCC     --UCCCGGCAAACGCA 72
chr-9.trna61-Gly-TCC     --UCCCGGCAAACGCA 72
chr-10.trna96-Gly-TCC    --UCCCGGCAAACGCA 72
chr-10.trna95-Gly-TCC    --UCCCGGCAAACGCA 72
chr-5.trna66-Gly-TCC     --UCCCGGCAAACGCA 72
chr-10.trna94-Gly-TCC    --UCCCGGCAAACGCA 72
chr-6.trna9-Gly-TCC      --UCCCGGCAAACGCA 72
chr-3.trna50-Gly-TCC     --UCCCGGCAAACGCA 72
chr-9.trna63-Gly-TCC     --UCCCGGCAAACGCA 72
chr-3.trna25-Gly-TCC     --UCCCGGCAAACGCA 72
chr-3.trna19-Gly-TCC     --UCCCGGCAAACGCA 72
chr-3.trna48-Gly-TCC     --UCCCGGCAAACGCA 72
chr-3.trna20-Gly-TCC     --UCCCGGCAAACGCA 72
chr-9.trna62-Gly-TCC     --UCCCGGUAAACGCA 72
chr-3.trna49-Gly-TCC     --UCCCGGCAAACGCA 72
chr-12.trna22-Gly-TCC    --UCCCGGCAAACGCA 73
chr-6.trna35-Gly-TCC     --UCUUGGCAAACGCA 72
chr-2.trna41-Gly-CCC     --UCCCCGGAUGCGCA 71
chr-11.trna16-Gly-CCC    --UCCCCGGAUGCGCA 71
chr-3.trna35-Gly-CCC     --UCCCCGGAUGCGCA 71
chr-5.trna32-Gly-CCC     --UCCCCGGAUGCGCA 71
chr-5.trna31-Gly-CCC     --UCCCCGGAUGCGCA 71
chr-9.trna22-Gly-CCC     --UCCCCGGAUGCGCA 71
chr-3.trna37-Gly-CCC     --UCCCCGGAUGCGCA 71
chr-5.trna75-Gly-CCC     --UCCCCGGAUGCGCA 71
chr-11.trna15-Gly-CCC    CCUCCCUGGAUGCGCA 74
chr-1.trna43-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-2.trna48-Gly-GCC     --UCCCGACUGGUGCA 71
chr-2.trna67-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-3.trna1-Gly-GCC      --UCCCGGCUGGUGCA 71
chr-3.trna29-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-11.trna62-Gly-GCC    --UCCCGGCUGGUGCA 71
chr-3.trna39-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-4.trna40-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-11.trna2-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-5.trna3-Gly-GCC      --UCCCGGCUGGUGCA 71
chr-5.trna80-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-6.trna13-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-9.trna78-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-6.trna59-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-7.trna10-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-7.trna11-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-7.trna12-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-7.trna14-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-9.trna59-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-9.trna58-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-7.trna31-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-7.trna13-Gly-GCC     --UUCCGGCUGGUGCA 71
chr-2.trna35-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-7.trna30-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-7.trna2-Gly-GCC      --UUCCGGCUGGUGCA 71
chr-11.trna64-Gly-GCC    --UCUCGGCUGGUGCA 71
chr-2.trna50-Gly-GCC     --UCCCGGCUGGUGGA 71
chr-8.trna20-Gly-GCC     --UCCCGGCUGGUGCA 71
chr-8.trna52-Gly-GCC     --UCUCGCUAUCCGCC 71
chr-8.trna3-Gly-GCC      --UCCCGCUAUCUGCU 71
chr-9.trna64-Gly-TCC     CCGGCAAACGGAAGCA 74
                         .........70.....
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