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                         (((((((.......(((.........))))..(((((.......)))))....(((((..
chr-1.trna32-Gly-TCC     GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-8.trna134-Gly-TCC    GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-4.trna113-Gly-TCC    GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-2.trna43-Gly-TCC     GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-4.trna53-Gly-TCC     GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-2.trna46-Gly-TCC     GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-2.trna105-Gly-TCC    GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-3.trna127-Gly-TCC    GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-5.trna55-Gly-TCC     GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-3.trna112-Gly-TCC    GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-2.trna106-Gly-TCC    GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-3.trna79-Gly-TCC     GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-5.trna96-Gly-TCC     GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-5.trna97-Gly-TCC     GUGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-8.trna87-Gly-TCC     GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-8.trna53-Gly-TCC     GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-8.trna15-Gly-TCC     GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-2.trna63-Gly-TCC     GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCCGGGUU 54
chr-1.trna55-Gly-TCC     GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCUGGGUU 54
chr-8.trna88-Gly-TCC     GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGACCUGGGUU 54
chr-2.trna1-Gly-TCC      GCGUUUG-----UAGUCCAACGG-UUAGGAUAAUUGCCUUCCAAGCAAUAGAUCCGGGUU 54
chr-8.trna137-Gly-TCC    UCGUUUG-----UAGUCCAACAG-UUGGAAUAAUUGCCUUCCAAGCAAUAGACCUGGGUU 54
chr-4.trna154-Gly-GCC    GCGGAUA-----UAGUUGAAUGG-UAA-AAUUUCUCCUUGCCAAGGAGAAGACGCGGGUU 53
chr-4.trna168-Gly-GCC    GCGGAUA-----UAGUUGAAUGG-U-A-AAUUUCUCCUUGCCAAGGAGAAGACGCGGGUU 52
chr-1.trna37-Gly-GCC     GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-1.trna81-Gly-GCC     GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-1.trna108-Gly-GCC    GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-2.trna42-Gly-GCC     GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-2.trna107-Gly-GCC    GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-3.trna4-Gly-GCC      GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-8.trna124-Gly-GCC    GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-8.trna123-Gly-GCC    GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-8.trna141-Gly-GCC    GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-3.trna5-Gly-GCC      GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-3.trna6-Gly-GCC      GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-8.trna18-Gly-GCC     GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-3.trna7-Gly-GCC      GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-8.trna2-Gly-GCC      GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-3.trna8-Gly-GCC      GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-3.trna31-Gly-GCC     GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-7.trna27-Gly-GCC     GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-6.trna30-Gly-GCC     GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-3.trna33-Gly-GCC     GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-3.trna123-Gly-GCC    GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-5.trna78-Gly-GCC     GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-4.trna39-Gly-GCC     GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-5.trna49-Gly-GCC     GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-5.trna48-Gly-GCC     GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-4.trna51-Gly-GCC     GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-5.trna14-Gly-GCC     GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-4.trna96-Gly-GCC     GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-4.trna133-Gly-GCC    GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGGUACAGACCCGGGUU 53
chr-8.trna125-Gly-GCC    GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCUGCCAUGGUACAGACCCGGGUU 53
chr-8.trna130-Gly-GCC    GCACCAG-----UGGUCUAGUGG-U-AGAAUAGUACCCUGCCACGCUACAGACCCGGGUU 53
chr-1.trna44-Gly-CCC     GCGCAUC-----UGGUGUAGUGG-U-AUCAUAGUACCCUCCCACGGUACUGACCAGGGUU 53
chr-2.trna21-Gly-CCC     GCGCAUC-----UGGUGUAGUGG-U-AUCAUAGUACCCUCCCACGGUACUGACCAGGGUU 53
chr-7.trna71-Gly-CCC     GCGCAUC-----UGGUGUAGUGG-U-AUCAUAGUACCCUCCCACGGUACUGACCAGGGUU 53
chr-3.trna97-Gly-CCC     GCGCAUC-----UGGUGUAGUGG-U-AUCAUAGUACCCUCCCACGGUACUGACCAGGGUU 53
chr-2.trna33-Gly-CCC     GCGCAUC-----UGGUGUAGUGG-U-AUCAUAGUACCCUCCCACGGUACUGACCAGGGUU 53
chr-2.trna6-Gly-CCC      GUGCAUC-----UGGUGUAGUGG-C-AUCAUAGUACCCUCCCACGGUACGGACCAGGGUU 53
chr-7.trna72-Gly-TCC     GUGCAUC-----UGGUGUAGACG-U-AUCAUAGUACCCUUCCACGGUGCUGACCAGGGUU 53
chr-5.trna45-Gly-ACC     GGGUGGGUCCUGUAGCUCAGAGGAUUAGAGCACGUGGCUACCAACCACGGUGUCGGGGUU 60
                         .........10........20........30........40........50.........
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                         .....))))))))))))).
chr-1.trna32-Gly-TCC     CGACUCCCGGCAAACGCA 72
chr-8.trna134-Gly-TCC    CGACUCCCGGCAAACGCA 72
chr-4.trna113-Gly-TCC    CGACUCCCGGCAAACGCA 72
chr-2.trna43-Gly-TCC     CGACUCCCGGCAAACGCA 72
chr-4.trna53-Gly-TCC     CGACUCCCGGCAAACGCA 72
chr-2.trna46-Gly-TCC     CGACUCCCGGCAAACGCA 72
chr-2.trna105-Gly-TCC    CGACUCCCGGCAAACGCA 72
chr-3.trna127-Gly-TCC    CGACUCCCGGCAAACGCA 72
chr-5.trna55-Gly-TCC     CGACUCCCGGCAAACGCA 72
chr-3.trna112-Gly-TCC    CGACUCCCGGCAAACGCA 72
chr-2.trna106-Gly-TCC    CGACUCCCGGCAAACGCA 72
chr-3.trna79-Gly-TCC     CGACUCCCGGCAAACGCA 72
chr-5.trna96-Gly-TCC     CGACUCCCGGCAAACGCA 72
chr-5.trna97-Gly-TCC     CGACUCCCGGCAAACGCA 72
chr-8.trna87-Gly-TCC     CGACUCCCGGCAAACGCA 72
chr-8.trna53-Gly-TCC     CGACUCCCGGCAAACGCA 72
chr-8.trna15-Gly-TCC     CGACUCCCGGCAAACGCA 72
chr-2.trna63-Gly-TCC     UGACUCCCGGCAAACGCA 72
chr-1.trna55-Gly-TCC     CGACUCCCGGCAAACGCA 72
chr-8.trna88-Gly-TCC     CGACUCCUGGCAAACGCA 72
chr-2.trna1-Gly-TCC      CGACUCCCGGCAAACGCA 72
chr-8.trna137-Gly-TCC    AGACUCCCGGCAAACGCA 72
chr-4.trna154-Gly-GCC    CGAUUCCCGCUAUCCGCC 71
chr-4.trna168-Gly-GCC    CGAUUCCCGCUAUCCGCC 70
chr-1.trna37-Gly-GCC     CGAUUCCCGGCUGGUGCA 71
chr-1.trna81-Gly-GCC     CGAUUCCCGGCUGGUGCA 71
chr-1.trna108-Gly-GCC    CGAUUCCCGGCUGGUGCA 71
chr-2.trna42-Gly-GCC     CGAUUCCCGGCUGGUGCA 71
chr-2.trna107-Gly-GCC    CGAUUCCCGGCUGGUGCA 71
chr-3.trna4-Gly-GCC      CGAUUCCCGGCUGGUGCA 71
chr-8.trna124-Gly-GCC    CGAUUCCCGGCUGGUGCA 71
chr-8.trna123-Gly-GCC    CGAUUCCCGGCUGGUGCA 71
chr-8.trna141-Gly-GCC    CGAUUCCCGGCUGGUGCA 71
chr-3.trna5-Gly-GCC      CGAUUCCCGGCUGGUGCA 71
chr-3.trna6-Gly-GCC      CGAUUCCCGGCUGGUGCA 71
chr-8.trna18-Gly-GCC     CGAUUCCCGGCUGGUGCA 71
chr-3.trna7-Gly-GCC      CGAUUCCCGGCUGGUGCA 71
chr-8.trna2-Gly-GCC      CGAUUCCCGGCUGGUGCA 71
chr-3.trna8-Gly-GCC      CGAUUCCCGGCUGGUGCA 71
chr-3.trna31-Gly-GCC     CGAUUCCCGGCUGGUGCA 71
chr-7.trna27-Gly-GCC     CGAUUCCCGGCUGGUGCA 71
chr-6.trna30-Gly-GCC     CGAUUCCCGGCUGGUGCA 71
chr-3.trna33-Gly-GCC     CGAUUCCCGGCUGGUGCA 71
chr-3.trna123-Gly-GCC    CGAUUCCCGGCUGGUGCA 71
chr-5.trna78-Gly-GCC     CGAUUCCCGGCUGGUGCA 71
chr-4.trna39-Gly-GCC     CGAUUCCCGGCUGGUGCA 71
chr-5.trna49-Gly-GCC     CGAUUCCCGGCUGGUGCA 71
chr-5.trna48-Gly-GCC     CGAUUCCCGGCUGGUGCA 71
chr-4.trna51-Gly-GCC     CGAUUCCCGGCUGGUGCA 71
chr-5.trna14-Gly-GCC     CGAUUCCCGGCUGGUGCA 71
chr-4.trna96-Gly-GCC     CGAUUCCCGGCUGGUGCA 71
chr-4.trna133-Gly-GCC    CGAUUCCCGGCUGGUGCA 71
chr-8.trna125-Gly-GCC    CAAUUCCUGGCUGGUGCA 71
chr-8.trna130-Gly-GCC    CAAUUCCUGGCUGGUGCA 71
chr-1.trna44-Gly-CCC     CGAUUCCCUGGAUGCGCA 71
chr-2.trna21-Gly-CCC     CGAUUCCCUGGAUGCGCA 71
chr-7.trna71-Gly-CCC     CGAUUCCCUGGAUGCGCA 71
chr-3.trna97-Gly-CCC     CGAUUCCCUGGAUGCGCA 71
chr-2.trna33-Gly-CCC     CGAUUCCCUGGAUGCGCA 71
chr-2.trna6-Gly-CCC      CGAUUCCCUGGAUGUGCA 71
chr-7.trna72-Gly-TCC     CGAUUCCCUGGAUGCGCA 71
chr-5.trna45-Gly-ACC     CGAAUCCCUCCUCGCCCA 78
                         .........70.......
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