```
                                 (((((((..((((.........).....))).(((((.......)))))).....(((((.
chr-9.trna41-Asn-GTT     UAGU----AGCUCAGUAGUAUAG-----AGUGGUCGGUUGUUAAUCGAUUGGUUGUAGGU 51
chr-4.trna23-Asn-GTT     UUCUCAAUAGCUCAUU--GAUAG-----AGCGGACGACUGUUAAUCGAUUGGUCAUAAUU 53
chr-6.trna15-Asn-GTT     UCCACAGUAGCUCAGU--GGUAG-----AGCAGUCGGUUGUUAACCGAUUGGUCGUAGGU 53
chr-1.trna94-Asn-GTT     UUCUCAAUAGCUUAGU--GGUAG-----AGCGGUCGGCUGUUAACCGAUUGGUCGUAGGU 53
chr-11.trna10-Asn-GTT    UCCUCAGUAGCUCAGU--GGUAG-----AGCGGUCGGCUGUUAAUCGAUUGGUCGUAGGU 53
chr-3.trna53-Asn-GTT     UCCUCAGUAGCUCAGU--GGUAG-----AGCGGUCGGCUGUUAACCGAUUGGUCGUAGGU 53
chr-11.trna64-Asn-GTT    UCCUCAGUAGCUCAGU--GGUAG-----AGCGAUCGGAUGUUAACCGAUUGGUCGUAGGU 53
chr-9.trna88-Asn-GTT     UCCUCAGUAGCUCAGU--GGUAG-----AGCGGUCGGCUGUUAACCGAUUAGUCGUAGGU 53
chr-4.trna27-Asn-GTT     UCCUCAGUAGCUCAGU--GGUAG-----AGCGGUCGGUUGUUAACCGAUUGGUCGUAGGU 53
chr-8.trna39-Asn-GTT     UCCUCAGUAGCUUCGU--AGUAG-----AGCGGUCGGCUGUUAACUGAUUGGUCGUAGGU 53
chr-4.trna47-Asn-GTT     ANCUCAGUAGCUCAGU--GGUAG-----AGCGGUCGGCUGUUAACCGAUUGGUCGUAGGU 53
chr-11.trna54-Asn-GTT    UCCUCAGUAGCUCAGU--GGUAG-----AGCAACCGGCUGUUAACCGAUUGGUCGUAGGU 53
chr-3.trna104-Asn-GTT    UCCUCAGUAGCUCAGU--GGUAG-----AGCGGUCGGCUGUUAACCGAUUGGUCAUAGGU 53
chr-11.trna110-Asn-GTT   UCCUCAGUAGCUCAGU--GGUAG-----AGCGGUCGGCUGUUAACCGAUUGGUCGUAGGU 53
chr-8.trna44-Asn-GTT     UCCUCAGUAGCUCAGU--GGUAG-----AGCGGUCGGCUGUUAAUCGAUUGGUCAUAGGU 53
chr-4.trna94-Asn-GTT     UCCUCAGUAGCUCAGU--GGUUG-----AGCGGUCGGCUGUUAACCGAUUGGUCGUAGGU 53
chr-6.trna54-Asn-GTT     UCCUCAGUAGCUCAGU--GAUAG-----AGCGGUCGGCUGUUAACUGAUUGGUAAUAGGU 53
chr-8.trna145-Asn-GTT    UCCUUAGUAGCUCAGU--GGUAG-----AGCGGUCGAUUGUUAACUGAUUGGUCAUAGGU 53
chr-4.trna101-Asn-GTT    UCCUCAGUAGCUCAGU--GGUAA-----AGCGGUCGGUUGUUAACCGAUAGGUCGUAGGU 53
chr-3.trna100-Asn-GTT    UCCUCAGUAGCUCAGU--GGUAG-----AACGGUCGGUUGUUAACCGAUUGGUCGUAGGU 53
chr-8.trna17-Asn-GTT     UCCUCAGUAGCUCAGU--GGUAA-----AGCAGUCGGCUGUUAACCGAUUUGUCGUAGGU 53
chr-8.trna8-Asn-GTT      UCCUCAGUAGCUCAGU--GGUAG-----AGCGGUCGUCUGUUAACCGAUUGGUCGUAGGU 53
chr-3.trna12-Asn-GTT     UCCUCAGUAGCUCAGU--GGUAG-----AGUGGUCGGCUGUUAACCAAUUGUUCGUAGGU 53
chr-6.trna134-Asn-GTT    UCCUCAGUAGCUCAGU--GGUAG-----AGUGGUUGACUGUUAACCGAUUGGUCGUAGGU 53
chr-8.trna124-Asn-GTT    UCCUCAGUAGCUCAGU--ACUAG-----AGCGGUCAGCUGUUAACCGAUUGGUCGUAGGU 53
chr-1.trna169-Asn-GTT    UCCUCAGUAGCUCAGU--GGUAG-----AGAGGUCGGCUGUUAACCGAUUGGUCGUAGGU 53
chr-7.trna24-Asn-GTT     UCCUCAGUAGCUUAGU--GGUAG-----AGCAGUCGGUUGUUAACCGAUUGGUUGUAGGU 53
chr-2.trna33-Asn-GTT     GGGAUUGUAGUUCAAUUGGUCAG-----AGCACCGCCCUGUUAAGGCGGAAGCUGCGGGU 55
chr-2.trna125-Asn-GTT    AGGAUUGUAGUUCAAUUGGUCAG-----AGCACCGCCCUGUUAAGGCGGAAGUUGCGGGU 55
chr-1.trna16-Asn-GTT     GCUGGAAUAGCUCAGUUGGUUAG-----AGCGUAUGGCUGUUAACCAUAAGGUCGGAGGU 55
chr-5.trna102-Asn-GTT    GCUGGAAUAGCUCAGUUGGUUAG-----AGCGUAUGGCUGUUAACCAUAAGGUCGGAGGU 55
chr-11.trna172-Asn-GTT   GCUGGAAUAGCUCAGUUGGUUAG-----AGCGUGUGGCUGUUAACCACAAGGUCGGAGGU 55
chr-2.trna49-Asn-GTT     GCUGGAAUAGCUCAGUUGGUUAG-----AGCGUGUGGCUGUUAACCACAAGGUCGGAGGU 55
chr-8.trna93-Asn-GTT     GCUGGAGUAGCUCAGUUGGUUAG-----AGCGUGUGGCUGUUAACCACAAGGUCGAAGGU 55
chr-2.trna84-Asn-GTT     GCUGGAAUAGCUCAGUUGGUUAG-----AGCGUGUGGCUGUUAACCACAAGGUCGGAGGU 55
chr-12.trna41-Asn-GTT    GCUGGAAUAGCUCAGUUGGUUAG-----AGCGUGUGGCUGUUAACCACAAGGUCGGAGGU 55
chr-2.trna100-Asn-GTT    GCUGGAAUAGCUCAGUUGGUUAG-----AGCGUGUGGCUGUUAACCACAAGGUCGGAGGU 55
chr-2.trna116-Asn-GTT    GCUGGAAUAGCUCAGUUGGUUAG-----AGCGUGUGGCUGUUAACCACAAGGUCGGAGGU 55
chr-6.trna37-Asn-GTT     GCUGGAAUAGCUCAGUUGGUUAG-----AGCGUGUGGCUGUUAACCACAAGGUCGGAGGU 55
chr-11.trna165-Asn-GTT   GCUGGAAUAGCUCAGUUGGUUAG-----AGCGUGUGGCUGUUAACCACAAGGUCGGAGGU 55
chr-11.trna15-Asn-GTT    GCUGGAAUAGCUCAGUUGGUUAG-----AGCGUGUGGCUGUUAACCACAAGGUCGGAGGU 55
chr-11.trna16-Asn-GTT    GCUGGAAUAGCUCAGUUGGUUAG-----AGCGUGUGGCUGUUAACCACAAGGUCGGAGGU 55
chr-6.trna36-Asn-GTT     UCUGGAAUAGCUCAGUUGGUUAG-----AUCGUGUGGUUGUUAACCACAAGGUCGGAGGU 55
chr-2.trna152-Asn-GTT    UCCUCAAUAGCUCAGUGGUAUAGCGGUUAACGGUCGGCUGUUAACCGAUUAGUCGUAGGU 60
chr-12.trna22-Asn-GTT    CC-UAAAUAGUUCAGU--GGUAG-----AGUGGUCGGCUGUUAAUCGAUUGGUCAUAGUU 52
chr-12.trna29-Asn-GTT    GCUCGUCUAGUUCAGUU-GGUAG-----AGCGCAAGGCUGUUAACCUUGUGGUUGUGGAU 54
chr-3.trna106-Asn-GTT    GGCAUUGUAGUAUAGU-GGUGAG-----UAUUCCCGCCUGUUAUGCGGGUAACCUUGGUU 54
chr-8.trna22-Asn-GTT     GUUAUUAUAGUAUAUU-GGUAAG-----UAUUCCUGCUUGUUAUGCGGGU-AUCGGGGUU 53
chr-11.trna80-Asn-GTT    GCUUGGGC-CUAUAGU-GGUAAG-----UAUUUCCGCCUGUUAUGCGGGUGACCCGAGUU 53
                                 .........10.........20.........30.........40.........50.........

                                 ......)).)))))))).)).
chr-9.trna41-Asn-GTT     UCGAAUCC--UAUCCAGC-ACAA 71
chr-4.trna23-Asn-GTT     UCGAAUCC--UACUUGAG--GAG 72
chr-6.trna15-Asn-GTT     UAAAAUCC--UACUUGGG--GAG 72
chr-1.trna94-Asn-GTT     UCGAAUCC--UACUUGGG--AAG 72
chr-11.trna10-Asn-GTT    UCGAAUCC--UACUUGGG--GAG 72
chr-3.trna53-Asn-GTT     UCGAAUCC--UACUUGGG--GAN 72
chr-11.trna64-Asn-GTT    UCGAAUCC--UACUUGGG--GAG 72
chr-9.trna88-Asn-GTT     UCGAAUCC--UACUUGGG--GAG 72
chr-4.trna27-Asn-GTT     UCGAAUCC--UACAUGGG--GAG 72
chr-8.trna39-Asn-GTT     UCGAAUCC--UACCUGGG--GAG 72
chr-4.trna47-Asn-GTT     UCGAAUCC--UACUUGGG--GAG 72
chr-11.trna54-Asn-GTT    UCGAAUCC--UACUUGGG--GAG 72
chr-3.trna104-Asn-GTT    UUGAAUCC--UACUUGGG--GAG 72
chr-11.trna110-Asn-GTT   UUGAAUCC--UACUUGGG--GAG 72
chr-8.trna44-Asn-GTT     UCGAAUCC--UACUUGGG--GAG 72
chr-4.trna94-Asn-GTT     UUGAAUCC--UACUUGGG--GAG 72
chr-6.trna54-Asn-GTT     UUGAAUCC--UACUUGGG--GAG 72
chr-8.trna145-Asn-GTT    UCGAAUCC--UACUUGGG--GAG 72
chr-4.trna101-Asn-GTT    UUGAAUCC--UACUUGGG--GAG 72
chr-3.trna100-Asn-GTT    UCGAAUCC--UACUUAGG--GAG 72
chr-8.trna17-Asn-GTT     UUGAAUCC--UACUUAGG--GAG 72
chr-8.trna8-Asn-GTT      UAGAAUCC--UACUUUGG--GAG 72
chr-3.trna12-Asn-GTT     UCGAAUCC--UACUUGGG--GAG 72
chr-6.trna134-Asn-GTT    UUGAAUCC--UACUUGGG--GAG 72
chr-8.trna124-Asn-GTT    UCGAAUCG--UACUUGGG--GAG 72
chr-1.trna169-Asn-GTT    UCGAAUCC--UUCUUGGG--GAG 72
chr-7.trna24-Asn-GTT     UCGAAUCC--CACUUGGGUAGAU 74
chr-2.trna33-Asn-GTT     UCGAGCCU--CGUUAGUC--CCG 74
chr-2.trna125-Asn-GTT    UCGAGCCC--CGUUAGUC--UCG 74
chr-1.trna16-Asn-GTT     UCGACCCC--UCCUUCUA--GCG 74
chr-5.trna102-Asn-GTT    UCGACCCC--UCCUUCUA--GCG 74
chr-11.trna172-Asn-GTT   UCGACCCC--UCCUUCUA--GCG 74
chr-2.trna49-Asn-GTT     UCAAGCCC--UCCUUCUA--GCG 74
chr-8.trna93-Asn-GTT     UCAAGCCC--UUCCUCUA--GCG 74
chr-2.trna84-Asn-GTT     UCAAGCCC--UCCUUCUA--GCG 74
chr-12.trna41-Asn-GTT    UCAAGCCC--UCCUUCUA--GCG 74
chr-2.trna100-Asn-GTT    UCAAGCCC--UCCUUCUA--GCG 74
chr-2.trna116-Asn-GTT    UCAAGCCC--UCCUUCUA--GCG 74
chr-6.trna37-Asn-GTT     UCAAGCCC--UCCUUCUA--GCG 74
chr-11.trna165-Asn-GTT   UCAAGCCC--UCCUUCUA--GCG 74
chr-11.trna15-Asn-GTT    UCAAGCCC--UCCUUCUA--GCG 74
chr-11.trna16-Asn-GTT    UCAAGCCC--UCCUUCUA--GCG 74
chr-6.trna36-Asn-GTT     UCAAGCCC--UUCUUCUA--GCG 74
chr-2.trna152-Asn-GTT    UCGAAUCC--UACUUGGG--GAG 79
chr-12.trna22-Asn-GTT    UCGAAUCC--UAC--UAGAAGGA 71
chr-12.trna29-Asn-GTT    UCAA------CAUGGUGG--GCG 69
chr-3.trna106-Asn-GTT    UCAUCCUCGGCAACAAUG--CCA 75
chr-8.trna22-Asn-GTT     CGAUCCCCGAUAAC-GCA--ACA 73
chr-11.trna80-Asn-GTT    CGAU-CCGG---ACCCAA--GCA 70
                                 .........70.........80..
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