```
                                ((.(((((.......((((.........)))).(((((.......)))))).....(((((
chr-6.trna76-Arg-CCT     GC-GCCUG-----UAGCUCAGUGGA-UAGAGCGUCUGGUUCCUAAGCAGAAGGUCGUAGG 53
chr-12.trna40-Arg-CCT    GC-GCUUG-----UAGCUCAGUGGA-UAGAGCGUCUGGUUCCUAAGCAGAAGGUCGUAGG 53
chr-2.trna62-Arg-CCT     GC-GCCUG-----UAGCUCAGUGGA-UAGAGCGUCUGGUUCCUAAGCAGAAGGUCGUAGG 53
chr-5.trna38-Arg-CCT     GC-GCCUG-----UAGCUCAGUGGA-UAGAGCGUCUGGUUCCUAAGCAGAAAGUCGUAGG 53
chr-6.trna75-Arg-CCT     GC-GCCUG-----UAGCUCAGUGGA-UAGAGCGUCUGGUUCCUAAGCAGAAAGUCGUAGG 53
chr-6.trna105-Arg-CCT    GC-GCCUG-----UAGCUCAGUGGA-UAGAGCGUCUGGUUCCUAAGCAGAAAGUCGUAGG 53
chr-6.trna106-Arg-CCT    GC-GACUG-----UAGCUCAGUGGA-UAGAGCGCCUGGUUCCUAAGCAGAAAGUCGUAGG 53
chr-12.trna65-Arg-CCT    GC-GCCUG-----UAGCUCAGUGGG-UAGAGCGUCUAAUUCCUAAGCAGAAAGUCGUACG 53
chr-10.trna36-Arg-TCG    GA-CCGCA-----UAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGG 54
chr-8.trna107-Arg-TCG    GA-CCGCA-----UAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGG 54
chr-9.trna28-Arg-TCG     GA-CCGCA-----UAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGCCGUGGG 54
chr-5.trna58-Arg-TCG     GA-CCGCA-----UAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGG 54
chr-5.trna100-Arg-TCG    GA-CCGCA-----UAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGG 54
chr-3.trna58-Arg-CCG     GA-UCUCA-----UAGCGGAGUGGA-UAUCGCGUUAGAUUCCGAAUCUAAAGGUCGUGGG 53
chr-2.trna53-Arg-ACG     GA-CUCCA-----UGGCCCAAUGGA-UAAGGCGCUGGCUACGAAACCAGAGAUUCUGGG 53
chr-12.trna46-Arg-ACG    GA-CUCUG-----UGGCCCAAUGGA-UAAGGCGCUGGCUACGGAACCAGAGAUUCUGGG 53
chr-4.trna29-Arg-ACG     GA-CUCUG-----UGGCCCAAUGGA-UAAGGCGCUGGCUACGGAACCAGAGAUUCUGGG 53
chr-10.trna122-Arg-ACG   GA-CUCUG-----UGGCCCAAUGGA-UAAGGCGCUGGCUACGGAACCAGAGAUUCUGGG 53
chr-7.trna85-Arg-ACG     GA-CUCUG-----UGGCCCAAUGGA-UAAGGCGCUGGCUACGGAACCAGAGAUUCUGGG 53
chr-7.trna90-Arg-ACG     GA-CUCUG-----UGGCCCAAUGGA-UAAGGCGCUGGCUACGGAACCAGAGAUUCUGGG 53
chr-11.trna75-Arg-ACG    GA-CUUCA-----UGGCCCAAUGGA-UAAGGCGCUGGCUACGGAACCAGAGAUUCUGGG 53
chr-3.trna66-Arg-CCG     GU-UCGCG-----UGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGG 53
chr-5.trna41-Arg-CCG     GU-UCGCG-----UGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGG 53
chr-7.trna91-Arg-CCG     GA-UCGCG-----UGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGG 53
chr-2.trna43-Arg-TCT     GC-GCCCA-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGG 53
chr-8.trna91-Arg-TCT     GC-GCCCA-----UGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGG 53
chr-8.trna169-Arg-TCT    GC-ACCCA-----UGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGG 53
chr-2.trna77-Arg-TCT     GC-GCCCA-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGG 53
chr-2.trna99-Arg-TCT     GC-GCCCA-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGG 53
chr-2.trna105-Arg-TCT    GC-GCCCA-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGG 53
chr-4.trna45-Arg-TCT     GC-GCCCA-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGG 53
chr-7.trna71-Arg-TCT     GC-GCCCA-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGG 53
chr-9.trna86-Arg-TCT     GC-GCCCA-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGG 53
chr-10.trna69-Arg-TCT    GC-GCCCA-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGG 53
chr-1.trna89-Arg-TCT     GC-CCCCA-----UGGCCUAAUGGA-UAAGGUGCUUGACUUCUAAUCAAGCGAUUGCGGG 53
chr-11.trna56-Arg-TCT    AC-GUCCA-----UUGUCUAAUGGA-UAGGACAGAGGUCUUCUAAACCUUUGGU-AUAGG 52
chr-12.trna20-Arg-TCT    GC-GUCCA-----UUGUCUAAUGGA-UAGGACAGAGGUCUUCUAAAACUUUGGC-AUAGG 52
chr-11.trna33-Arg-TCT    GU-GUCUA-----UUGUCUAAUGGA-UAGGACAGAGGUCUUCUAAACCUUUGGU-AUAGG 52
chr-1.trna115-Arg-TCT    GC-GCCCA-----UUGUCUAAUGGA-UAGGACUGAGGUCUUCUAAACCUUUGGU-AUAGG 52
chr-12.trna11-Arg-TCT    GC-ACUCG-----UGGCCUAAUGGA-UAAGGCGUCCGACUUCUAAUCGGCGAUUAUGGG 53
chr-11.trna87-Arg-ACG    GG-GUGGAGCCUGUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCACGGUAUCGGGGG 59
chr-1.trna143-Arg-ACG    GG-GUGGGGCCUGUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCAUGGUGUCGAGGG 59
chr-3.trna123-Arg-ACG    GG-GUGGGGCCUGUAGCUCAGAGGAUUAGAGCACAUGGCUACGAACCAUGGUGUCGGGGG 59
chr-6.trna27-Arg-ACG     GG-GUGGGGCCUGUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCACGGUGUCGGGGG 59
chr-9.trna71-Arg-ACG     GG-GUGGGGCCUGCAGCUCAGAGGAUUAGAGAACGUGGCUACGAACCACGGUGUCGGGGG 59
chr-4.trna93-Arg-ACG     GG-GUGGGGCCUGUAGCUCAAAGGAUUAGAGCACGUGGCUACGAACCACGGUGUCAGGGG 59
chr-4.trna25-Arg-ACG     GG-GUGGGGCCUGUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCACGGUGUCAGGGG 59
chr-1.trna78-Arg-ACG     GG-GUGGGUCCUGUAGCUCAGAGUAUUAGAGCACGUGGCUACGAACCAUGGUGUCGGGGG 59
chr-8.trna144-Arg-ACG    GG-GUGGGGCCUAUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCACGUUGUCGGGGU 59
chr-10.trna25-Arg-ACG    GG-GC-----AUCUAGCUUAGAGGAUUAGAGCACGUGGCUACGAACCACGGUGUCGGGGG 54
chr-11.trna63-Arg-ACG    GG-GC-----CUGUAGCUUACAGGAUUAGAGCACGUGGCUACGAACCACGGUGUCGGGGG 54
chr-3.trna126-Arg-ACG    GG-GC-----CUGUAGCUUAGAGAAUUAGAGCACAUGGCUACGAACCAUGGUGUCGGGGA 54
chr-6.trna125-Arg-GCG    AG-GUCCU-----UAGCUUAGUCA--UAGAGCAUUUGACUGCGGAUCAAGAGGUCACUAG 52
chr-6.trna120-Arg-GCG    AGUGUCCU-----UACCUCAGUCA--UAGAGCAUUUGACUGCGGAUCAAGAGGUCACCAG 53
chr-8.trna12-Arg-TCT     GCUCUU--------AGUUCAGUUUGGUAGAACGUAGGCUUCUAAAUUCAAUGUCGUAGG 52
                         .........10........20........30........40........50.........
                         ..................))))))))))....)).
chr-6.trna76-Arg-CCT     UUCGA----------CCCCUACCUGGC----GCG 73
chr-12.trna40-Arg-CCT    UUCGA----------CCCCUACCUAGC----GCG 73
chr-2.trna62-Arg-CCT     UUCGA----------CCCCUAUCUGGC----GCG 73
chr-5.trna38-Arg-CCT     UUCGA----------CCCCUACCUGGC----GCG 73
chr-6.trna75-Arg-CCT     UUCGA----------CCCCUACCUGGC----GCG 73
chr-6.trna105-Arg-CCT    UUCGA----------CCCCUACCUGGC----GCG 73
chr-6.trna106-Arg-CCT    UUCGA----------CCCCUACCUGGC----GCG 73
chr-12.trna65-Arg-CCT    CUCGAU---------CCCCUACCUGGC----UCG 74
chr-10.trna36-Arg-TCG    UUCGA----------CUCCCACUGUGG----UCG 74
chr-8.trna107-Arg-TCG    UUCGA----------CUCCCACUGUGG----UCG 74
chr-9.trna28-Arg-TCG     UUCGA----------CUCCCACUGUGG----UCG 74
chr-5.trna58-Arg-TCG     UUCGA----------CUCCCACUGUGG----UCG 74
chr-5.trna100-Arg-TCG    UUCGA----------CUCCCACUGUGG----UCG 74
chr-3.trna58-Arg-CCG     UUCGA----------AUCCCACUGAGA----UCA 73
chr-2.trna53-Arg-ACG     UUCGA----------UCCCCAGUGGAG----UCG 73
chr-12.trna46-Arg-ACG    UUCGA----------UCCCCAGCAGAG----UCG 73
chr-4.trna29-Arg-ACG     UUCGA----------UCCCCAGCAGAG----UCG 73
chr-10.trna122-Arg-ACG   UUCGA----------UCCCCAGCAGAG----UCG 73
chr-7.trna85-Arg-ACG     UUCGA----------UCCCCAGCAGAG----UCG 73
chr-7.trna90-Arg-ACG     UUCGA----------UCCCCAGCAGAG----UCG 73
chr-11.trna75-Arg-ACG    UUCGA----------UCCCCAGUGAAG----UCG 73
chr-3.trna66-Arg-CCG     UUCGA----------GUCCCACCGUGA----ACG 73
chr-5.trna41-Arg-CCG     UUCGA----------GUCCCACCGUGA----ACG 73
chr-7.trna91-Arg-CCG     UUCGA----------GUCCCAUCGCGA----UCG 73
chr-2.trna43-Arg-TCT     UUUGA----------GUCCCACUGGGC----GUG 73
chr-8.trna91-Arg-TCT     UUCGA----------GUCCCACUGGGC----GUG 73
chr-8.trna169-Arg-TCT    UUCGA----------GUCCCACUGGGU----GUG 73
chr-2.trna77-Arg-TCT     UUCGA----------GUCCCACUGGGC----GUG 73
chr-2.trna99-Arg-TCT     UUCGA----------GUCCCACUGGGC----GUG 73
chr-2.trna105-Arg-TCT    UUCGA----------GUCCCACUGGGC----GUG 73
chr-4.trna45-Arg-TCT     UUCGA----------GUCCCACUGGGC----GUG 73
chr-7.trna71-Arg-TCT     UUCGA----------GUCCCACUGGGC----GUG 73
chr-9.trna86-Arg-TCT     UUCGA----------GUCCCACUGGGC----GUG 73
chr-10.trna69-Arg-TCT    UUCGA----------GUCCCACUGGGC----GUG 73
chr-1.trna89-Arg-TCT     UUCGA----------GUCCCACUGGGGUUGAGCU 77
chr-11.trna56-Arg-TCT    UUAAA----------AUCCUAUUGGAC----GCA 72
chr-12.trna20-Arg-TCT    UUCAA----------AUCCUAUUGGAC----GCA 72
chr-11.trna33-Arg-TCT    UUCAA----------AUCAUGUUGGAC----GCA 72
chr-1.trna115-Arg-TCT    UUCAA----------AUCCUAUUGGAU----GCA 72
chr-12.trna11-Arg-TCT    AUCGUGGGAUCUCUAGUCCCACCGGGU----GUG 83
chr-11.trna87-Arg-ACG    UUCGA----------AUCCCUCCUCGC----CCA 79
chr-1.trna143-Arg-ACG    UUCGA----------AUCCCUCCUCGC----CCA 79
chr-3.trna123-Arg-ACG    UUCGA----------AUCCCUCCUCGC----CCA 79
chr-6.trna27-Arg-ACG     UUUGA----------AUCCCUCCUCGC----CUA 79
chr-9.trna71-Arg-ACG     UUCGA----------AUCCCUCCUCGC----CCA 79
chr-4.trna93-Arg-ACG     UUCGA----------AUCCCUCCUCGC----CCA 79
chr-4.trna25-Arg-ACG     UUCGA----------AUCCCUCCUCGC----CCA 79
chr-1.trna78-Arg-ACG     CUCGA----------AUCCCUCCUCGC----CCA 79
chr-8.trna144-Arg-ACG    UUCAA----------AUCCCUCCUCGC----CCA 79
chr-10.trna25-Arg-ACG    UUUGA----------AUCCCUCCUCGC----CCA 74
chr-11.trna63-Arg-ACG    UUCGA----------AUCCCUCCUCGC----CCA 74
chr-3.trna126-Arg-ACG    UUCGA----------AUCCCUCCUCGC----CCA 74
chr-6.trna125-Arg-GCG    UUCGA----------ACCAAGUAGGGC----CCU 72
chr-6.trna120-Arg-GCG    UUAGA----------ACCUAGUAGGGC----CUU 73
chr-8.trna12-Arg-TCT     UUCAA----------AAUCCUAUAAAAG---AGCG 74
                         .........70........80........90...
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