```
                                 (((((.....((..((((.........)))).(((((.......)))))).....(((((.
chr-6.trna60-Arg-ACG             GGGC-----CUGUAGCUUAGAGGAUUAGAGCACGUGGCUACGAACCACGGUGUCGGGGGU 55
chr-10.trna14-Arg-ACG            GGGC-----UUGUAGCUCAAAGGAUUAGAACGUGUGGUUACGAACCACAGUGUAGGGGAU 55
chr-10.trna34-Arg-ACG            GGGC-----UUGUAGCUCAAAGGAUUAGAACGUGUGGUUACGAACCACAGUGUAGGGGAU 55
chr-5.trna7-Arg-ACG              GGGUGGGUCCUAUAGCUCAGAGGAUUAGAGUACAUAGCUACGAACCAUGGUGUCGGGGGU 60
chr-5.trna22-Arg-ACG             GGGUGGGGCCUGUAGCUCUAAGGAUUAGAGCACGUGGCUACGAACCACGGUGUCGGGGGU 60
chr-2.trna110-Arg-ACG            GGGUGGGGCCUGUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCAUGGUGUCGGGGGU 60
chr-1.trna41-Arg-TCG             GACCG-----CAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-2.trna58-Arg-TCG             GACCG-----CAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-5.trna59-Arg-TCG             GACCG-----CAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-7.trna24-Arg-TCG             GACCG-----CAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-2.trna51-Arg-TCG             GACCG-----CAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGU 55
chr-2.trna56-Arg-TCG             GACCG-----CAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGU 55
chr-6.trna26-Arg-TCG             GACCG-----CAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGU 55
chr-8.trna33-Arg-CCG             GAUCG-----CAUAGCGGAGUGGA-UAUCGCGUUAGACUCCGAAUCUAAAGGUCGUGGGU 54
chr-1.trna65-Arg-ACG             GACUC-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-3.trna36-Arg-ACG             GACUC-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAACCAGAGAUUCUGGGU 54
chr-6.trna35-Arg-ACG             GACUC-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-12.trna13-Arg-ACG            GACUU-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-4.trna8-Arg-ACG              GACUC-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-11.trna41-Arg-ACG            GACUC-----CGUGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-12.trna14-Arg-ACG            GACUC-----CAUGGCCCAAUGGA-UAAGGCGCUAGUCUACGGAACUAGAGAUUCUGGGU 54
chr-5.trna48-Arg-ACG             GACUC-----CGUGGCCCAAUGGA-CAAGGCGCUAGUCUACGGAGCUAGAGAUUCUGUUU 54
chr-3.trna9-Arg-CCG              GUUCG-----CGUGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGU 54
chr-4.trna30-Arg-CCG             GAUCG-----CGUGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGU 54
chr-4.trna31-Arg-CCG             GAUCG-----CGUGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGU 54
chr-2.trna91-Arg-CCG             GAUCG-----CGUGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGU 54
chr-4.trna4-Arg-TCT              GCGCC-----UGUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGACGAUUGUGGGU 54
chr-6.trna44-Arg-TCT             GCGCC-----UGUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGACGAUUGUGGGU 54
chr-7.trna19-Arg-TCT             GCGCC-----CGUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-1.trna11-Arg-TCT             GCGCC-----CGUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-11.trna20-Arg-TCT            GCGCC-----CGUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-4.trna38-Arg-TCT             GCGCC-----CAUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-5.trna62-Arg-TCT             GCGCC-----UAUGGCCUAAUGGA-UAAGGCGCCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-4.trna46-Arg-TCT             GUACC-----CGUGGCCUAACGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-1.trna75-Arg-TCT             GCGCC-----CGUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-1.trna63-Arg-CCT             GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-4.trna40-Arg-CCT             GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-7.trna5-Arg-CCT              GCGUC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-10.trna11-Arg-CCT            GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-2.trna1-Arg-CCT              GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGUCAUAGGU 54
chr-11.trna42-Arg-CCT            GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCCGUUUCCUAAGCGGAAGGUCAUAGGU 54
chr-2.trna2-Arg-CCT              GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGUCAUAGGU 54
chr-4.trna51-Arg-CCT             GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCCGUUUCCUAAGCGGAAGGUCAUAGGU 54
chr-2.trna105-Arg-TCT            GCAUC-----CAUUGUCUAAUGGA-UAGGACAGAGGUCUUCUAAACCUUUAGU-AUAGGU 53
                                 .........10........20........30........40........50.........

                                 ......)))))))))))).
chr-6.trna60-Arg-ACG             UCAAAUCCCUCUUUGCCUA 74
chr-10.trna14-Arg-ACG            UUGAAUCCCUUCUUGCCUA 74
chr-10.trna34-Arg-ACG            UUGAAUCCCUUCUUGCCUA 74
chr-5.trna7-Arg-ACG              UCGAAUCCCUCCUUACCCA 79
chr-5.trna22-Arg-ACG             UCGAAUCCCUCCUCACCCA 79
chr-2.trna110-Arg-ACG            UCGAAUCCCUCCUCGCCCA 79
chr-1.trna41-Arg-TCG             UCGACUCCCACUGUGGUCG 74
chr-2.trna58-Arg-TCG             UCGACUCCCACUGUGGUCG 74
chr-5.trna59-Arg-TCG             UCGACUCCCACUGUGGUCG 74
chr-7.trna24-Arg-TCG             UCGACUCCCACUGUGGUCG 74
chr-2.trna51-Arg-TCG             UCGACUCCCACUGUGGUCG 74
chr-2.trna56-Arg-TCG             UCGACUCCCACUGUGGUCG 74
chr-6.trna26-Arg-TCG             UCGACUCCCACUGUGGUCG 74
chr-8.trna33-Arg-CCG             UCGAUUCCCACUGCGAUCG 73
chr-1.trna65-Arg-ACG             UCGAUCCCCAGUGGAGUCG 73
chr-3.trna36-Arg-ACG             UCGAUCCCCAGUGGAGUCG 73
chr-6.trna35-Arg-ACG             UCGAUCCCCAGUGGAGUCG 73
chr-12.trna13-Arg-ACG            UCGAUCCCCAGUGAAGUCG 73
chr-4.trna8-Arg-ACG              UCGAUCCCCAGUGGAGUCG 73
chr-11.trna41-Arg-ACG            UCGAUCCCCAGCGGAGUCG 73
chr-12.trna14-Arg-ACG            UCGAUCCCCAGUGGAGUCG 73
chr-5.trna48-Arg-ACG             UCGAUCCCCAGCGGAGUCG 73
chr-3.trna9-Arg-CCG              UCGAGUCCCACCGUGAACG 73
chr-4.trna30-Arg-CCG             UCGAGUCCCAUCGCGAUCG 73
chr-4.trna31-Arg-CCG             UCGAGUCCCAUCGCGAUCG 73
chr-2.trna91-Arg-CCG             UCGAGUCCCAUCGUGAUCG 73
chr-4.trna4-Arg-TCT              UCGAGUCCCACCAGGCGUG 73
chr-6.trna44-Arg-TCT             UCGAGUCCCACCAGGCGUG 73
chr-7.trna19-Arg-TCT             UCGAGUCCCACCGGGCGUG 73
chr-1.trna11-Arg-TCT             UCGAGUCCCACCGGGCGUG 73
chr-11.trna20-Arg-TCT            UCGAGUCCCACCGGGCGUG 73
chr-4.trna38-Arg-TCT             UCGAGUCCCACUGGGCGUG 73
chr-5.trna62-Arg-TCT             UCGAGUCCCACUGGGCGUG 73
chr-4.trna46-Arg-TCT             UCGAGUCCCACCGGGUAUG 73
chr-1.trna75-Arg-TCT             ACGAGUCCCACCGGGCGUG 73
chr-1.trna63-Arg-CCT             UCGACCCCUACCUGGCGCG 73
chr-4.trna40-Arg-CCT             UCGACCCCUACCUGGCGCG 73
chr-7.trna5-Arg-CCT              UCGACCCCUACCUGACGCG 73
chr-10.trna11-Arg-CCT            UCGACCCCUACCUGGCGCG 73
chr-2.trna1-Arg-CCT              UCGACCCCUAUCUGGCGCG 73
chr-11.trna42-Arg-CCT            UCGACCCCUAUCUGGCGCG 73
chr-2.trna2-Arg-CCT              UCGACCCCUAUCUGGCGCG 73
chr-4.trna51-Arg-CCT             UCGAUCCCUAUCUGGCGCG 73
chr-2.trna105-Arg-TCT            UCAAAUCCUAUUGGACAAG 72
                                 .........70.........
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