```
                                 ((((....((.(..((((.........)))).(((((.......)))))).....(((((.
chr-4.trna98-Arg-TCT     GC-----UUAC-AUUGUCUAAUGGA-UAGAACAGAGGUCUUCUAAACCUUUGGU-AUAGGU 53
chr-5.trna31-Arg-TCT     AAAAGCGUCC-AUUGUCUAAUGGA-UAGGACAGAGGUCUUCUAAACCUUUGGU-AUAGGU 57
chr-5.trna71-Arg-TCT     GCGC----CU-GUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGACGAUUGUGGGU 54
chr-7.trna78-Arg-TCT     GCGC----UC-GUGGCCUAAUGGA-UAAGGCGCCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-5.trna59-Arg-TCT     GCGC----CC-AUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-5.trna94-Arg-TCT     GCGC----CC-AUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-6.trna40-Arg-TCT     GCGC----CC-AUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-6.trna43-Arg-TCT     GCGC----CC-AUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-9.trna60-Arg-TCT     GCGC----CC-AUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-4.trna99-Arg-TCT     GCGC----UC-GUGGCCUAAUGGA-UAAGGUGUCUGACUUCUAAUCAGACGAUUGUGGGU 54
chr-1.trna59-Arg-TCT     GCGC----CC-AUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-2.trna57-Arg-TCT     GCGC----CC-AUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-6.trna41-Arg-TCT     GCGC----CC-AUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-6.trna42-Arg-TCT     GCGC----CC-AUGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-7.trna76-Arg-TCT     GCGC----UC-GUGGCCUAAUGGA-UAAGGCGCCUGACUUCUAAUCAGGCGAUUGUGGGU 54
chr-10.trna30-Arg-CCG    GUUC----GC-GUGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGU 54
chr-7.trna36-Arg-CCG     GUUC----GC-GUGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGU 54
chr-7.trna37-Arg-CCG     GUUC----GC-GUGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUAUGGGU 54
chr-7.trna56-Arg-ACG     GUUC----GC-GUGGCCUAAUGGA-UAAGGCGGUCGCCUACGGAGCGGGAGAUUGUGGGU 54
chr-5.trna81-Arg-ACG     GACU----CU-GUGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-5.trna122-Arg-ACG    GACU----CU-GUGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-11.trna13-Arg-ACG    GACU----CC-AUGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-5.trna80-Arg-ACG     GACU----UC-AUGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-9.trna39-Arg-ACG     GACU----CC-AUGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-5.trna82-Arg-ACG     GACU----CC-AUGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-2.trna73-Arg-ACG     GAUU----CC-AUGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-5.trna121-Arg-ACG    GACU----CC-GUGGCCCAAUCGA-UAAGUCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-1.trna56-Arg-CCT     GCGC----CU-GUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-2.trna116-Arg-CCT    GCGC----CU-GUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGUCGUAGGU 54
chr-2.trna31-Arg-CCT     GCGC----CU-GUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-2.trna105-Arg-CCT    GCGC----CU-GUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-2.trna111-Arg-CCT    GCGC----CU-GUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-3.trna14-Arg-CCT     GCGC----CU-GUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-4.trna20-Arg-CCT     GCGC----CU-GUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-6.trna71-Arg-CCT     GCGC----CU-GUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-6.trna99-Arg-CCT     GCGC----CU-GUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-11.trna17-Arg-CCT    GCGC----CU-GUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-2.trna17-Arg-CCT     GCGU----UG-GUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-1.trna79-Arg-TCG     GACC----GC-AUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-6.trna68-Arg-TCG     GACC----GC-AUAGCGCAGUGGAUUAACGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-10.trna48-Arg-TCG    GACC----GC-AUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-11.trna4-Arg-TCG     GACC----GC-AUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-11.trna6-Arg-TCG     GACC----GC-AUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-1.trna6-Arg-TCG      GACC----GC-AUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-9.trna52-Arg-TCG     GACC----GC-AUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-11.trna7-Arg-TCG     GACC----GC-AUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-9.trna10-Arg-TCG     GACC----GC-AUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-2.trna110-Arg-TCG    GACC----GC-AUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-2.trna81-Arg-TCG     GACC----GC-AUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGU 55
chr-1.trna80-Arg-TCG     GACC----GC-AUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGUGU 55
chr-2.trna34-Arg-CCG     GGUC----GC-AUAGCGGAGUGGA-UAUCGCAUUAGACUCCGGAUCUAAAGGUCGUGGGU 54
chr-3.trna90-Arg-ACG     GGGUGGGGCCUGUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCACGGUGUC-GGGGU 59
                         .........10.........20.........30.........40.........50.........

                         ......)))))))))))).
chr-4.trna98-Arg-TCT     UUAAAUCCUAUUGGAUCCA 72
chr-5.trna31-Arg-TCT     UCAAAUCCUAUUGGUUUUA 76
chr-5.trna71-Arg-TCT     UCGAGUCCCACCAGGCGUG 73
chr-7.trna78-Arg-TCT     UCGAGUCCCACCGGGCGUG 73
chr-5.trna59-Arg-TCT     UCGAGUCCCACUGGGCGUG 73
chr-5.trna94-Arg-TCT     UCGAGUCCCACUGGGCGUG 73
chr-6.trna40-Arg-TCT     UCGAGUCCCACUGGGCGUG 73
chr-6.trna43-Arg-TCT     UCGAGUCCCACUGGGCGUG 73
chr-9.trna60-Arg-TCT     UCGAGUCCCACUGGGCGUG 73
chr-4.trna99-Arg-TCT     UCGAGUCCCACCGAGCGUG 73
chr-1.trna59-Arg-TCT     UCGAAUCCCACUGGGCGUG 73
chr-2.trna57-Arg-TCT     UCGAAUCCCACUGGGCGUG 73
chr-6.trna41-Arg-TCT     UCGAAUCCCACUGGGCGUG 73
chr-6.trna42-Arg-TCT     UCGAAUCCCACUGGGCGUG 73
chr-7.trna76-Arg-TCT     UCGAAUCCCACCGUGCGUG 73
chr-10.trna30-Arg-CCG    UCGAGUCCCAUCGCGAACG 73
chr-7.trna36-Arg-CCG     UCGAGUCCCAUCGUGAACG 73
chr-7.trna37-Arg-CCG     UCGAAUCCCAUCGUGAACG 73
chr-7.trna56-Arg-ACG     UCGAGUCCCAUCGUGAACG 73
chr-5.trna81-Arg-ACG     UCGAUCCCCAGCAGAGUCG 73
chr-5.trna122-Arg-ACG    UCGAUCCCCAGCAGAGUCG 73
chr-11.trna13-Arg-ACG    UCGAUCCCCAGUGGAGUCG 73
chr-5.trna80-Arg-ACG     UCGAUCCCCAGUGAAGUCG 73
chr-9.trna39-Arg-ACG     UCGAUCCCCAGUGGAGUCG 73
chr-5.trna82-Arg-ACG     UCGAUCCCCAGUGGAGUCG 73
chr-2.trna73-Arg-ACG     UCGAUCCCCAGUGGAGUCG 73
chr-5.trna121-Arg-ACG    UCGAUCCCCAGCGGAGUUG 73
chr-1.trna56-Arg-CCT     UCGACCUCUACCUGGCGCG 73
chr-2.trna116-Arg-CCT    UCGACCCUACCUGGCGCG 73
chr-2.trna31-Arg-CCT     UCGACCCUACCUGGCGCG 73
chr-2.trna105-Arg-CCT    UCGACCCUACCUGGCGCG 73
chr-2.trna111-Arg-CCT    UCGACCCUACCUGGCGCG 73
chr-3.trna14-Arg-CCT     UCGACCCUACCUGGCGCG 73
chr-4.trna20-Arg-CCT     UCGACCCUACCUGGCGCG 73
chr-6.trna71-Arg-CCT     UCGACCCUACCUGGCGCG 73
chr-6.trna99-Arg-CCT     UCGACCCUACCUGGCGCG 73
chr-11.trna17-Arg-CCT    UCGACCCUACCUGGCGUG 73
chr-2.trna17-Arg-CCT     UUGACCCUAUCUGGCGUG 73
chr-1.trna79-Arg-TCG     UCGACUCCCACUGUGGUCG 74
chr-6.trna68-Arg-TCG     UCGACUCCCACUGUGGUUG 74
chr-10.trna48-Arg-TCG    UCGACUCCCACUGUGGUCG 74
chr-11.trna4-Arg-TCG     UCGACUCCCACUGUGGUCG 74
chr-11.trna6-Arg-TCG     UCGACUCCCACUGUGGUCG 74
chr-1.trna6-Arg-TCG      UCGACUCCCACUGUGGUCG 74
chr-9.trna52-Arg-TCG     UCGACUCCCACUGUGGUCG 74
chr-11.trna7-Arg-TCG     UCGACUCCCACUGUGGUCG 74
chr-9.trna10-Arg-TCG     UCGACUCCCACUGUGGUCG 74
chr-2.trna110-Arg-TCG    UCGACUUCCACUGUGGUCG 74
chr-2.trna81-Arg-TCG     UCGACUCCCACUGUGGUCG 74
chr-1.trna80-Arg-TCG     UCGACUCCCACUGUGGUCG 74
chr-2.trna34-Arg-CCG     UCGAAUCCCACUGCGAUCG 73
chr-3.trna90-Arg-ACG     UCGAAUCCCUCCUCGCCCA 78
                         .........70........
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