```
                        ((((((.....((((.........)))).(((((.....).))))).....(((((..
chr-1.trna49-Arg-TCT    GCGCCCG----UGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGUU 55
chr-12.trna6-Arg-TCT    GCGCCUG----UGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGACGAUUGUGGGUU 55
chr-8.trna8-Arg-TCT     GCGCCCA----UGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGUU 55
chr-8.trna9-Arg-TCT     GCGCCCA----UGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGUU 55
chr-8.trna40-Arg-TCT    GCGCCCA----UGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGUU 55
chr-9.trna12-Arg-TCT    GCGCCCA----UGGCCUAAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGUU 55
chr-11.trna7-Arg-TCT    GCGCCUG----UGGCCUAAUGGA-UAAGGCGUUUGACUUCUAAUCAAACGAUUGUGGGUU 55
chr-8.trna7-Arg-CCG     GACCGCG----UGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGUU 55
chr-8.trna29-Arg-CCG    GACCGCG----UGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGUU 55
chr-4.trna12-Arg-CCG    GGUCGCG----UGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGUU 55
chr-9.trna14-Arg-CCG    GACCGCG----UGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGUU 55
chr-4.trna28-Arg-CCG    GACCGCG----UGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGUU 55
chr-3.trna47-Arg-CCG    GACCGCG----UGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGUU 55
chr-1.trna25-Arg-ACG    GACUCCG----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUU 55
chr-1.trna19-Arg-ACG    GACUCCG----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUU 55
chr-5.trna44-Arg-ACG    GACUCCG----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUU 55
chr-5.trna33-Arg-ACG    GACUCCG----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUU 55
chr-5.trna28-Arg-ACG    GACUCCG----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUU 55
chr-9.trna2-Arg-ACG     GACUCCG----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUU 55
chr-3.trna26-Arg-ACG    GACUCCG----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUU 55
chr-4.trna8-Arg-ACG     GACUCCA----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUU 55
chr-12.trna19-Arg-ACG   GACUCCA----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUU 55
chr-10.trna21-Arg-ACG   GAUUCCA----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUU 55
chr-3.trna4-Arg-ACG     GACUCCA----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUU 55
chr-1.trna42-Arg-TCG    GACCGCA----UAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGUU 56
chr-3.trna7-Arg-TCG     GACCGCA----UAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGUU 56
chr-5.trna3-Arg-TCG     GACCGCA----UAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGUU 56
chr-5.trna4-Arg-TCG     GACCGCA----UAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGUU 56
chr-1.trna32-Arg-CCG    GAUCAUA----UAGCGAAGUGGA-UAUCGCGUUAGAUUCCGAAUCUAAAAGUCGUGGGUU 55
chr-1.trna75-Arg-CCT    GCGCCUG----UAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGUU 55
chr-12.trna35-Arg-CCT   GCGCCUG----UAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGUU 55
chr-3.trna24-Arg-CCT    GCGCCUG----UAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGUU 55
chr-3.trna63-Arg-CCT    GCGCCUG----UAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGUU 55
chr-11.trna13-Arg-CCT   GCGCCUG----UAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGUU 55
chr-5.trna27-Arg-CCT    GCGCCUG----UAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGUU 55
chr-5.trna9-Arg-CCT     GCGCCUG----UAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGUCGUAGGUU 55
chr-12.trna26-Arg-CCT   GCGCCUG----UUGCUCUGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGUU 55
chr-3.trna45-Arg-CCT    GCGCCUG----UAGCUCAGUGGA-UAGAGCGUUUGUUUCCUAAACAAAAAGCCGAAGGUU 55
chr-5.trna21-Arg-ACG    GGGUGGGCCUAUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCACGGUGUCGGGGUU 60
chr-2.trna9-Arg-ACG     GGGUGGGCUUGUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCACGGUGUC-GGGGUU 59
chr-7.trna18-Arg-CCT    GU----------AGCUUAGUGGA-UAGAGUGUCUGUUUCCUAAGCAGAAGACCAUAGGUU 49
                        .........10........20........30........40........50.........
                        .......))))))))))))).
chr-1.trna49-Arg-TCT    --CGAGUCCCACCGGGCGUG 73
chr-12.trna6-Arg-TCT    --CGAGUCCCACCAGGCGUG 73
chr-8.trna8-Arg-TCT     --CGAGUCCCACUGGGCGUG 73
chr-8.trna9-Arg-TCT     --CGAGUCCCACUGGGCGUG 73
chr-8.trna40-Arg-TCT    --CGAGUCCCACUGGGCGUG 73
chr-9.trna12-Arg-TCT    --CGAGUCCCACUGGGCGUG 73
chr-11.trna7-Arg-TCT    --CGAGUCCCACCAGGCGUG 73
chr-8.trna7-Arg-CCG     --CAAGUCCCAUCGUGGUCG 73
chr-8.trna29-Arg-CCG    --CGAGUCCCAUCGUGGUCG 73
chr-4.trna12-Arg-CCG    --CGAGUCCCACCGUGAUCG 73
chr-9.trna14-Arg-CCG    --CGAGUCCCAUCGUGGUCG 73
chr-4.trna28-Arg-CCG    --CGAGUCCCAUCGUGGUCG 73
chr-3.trna47-Arg-CCG    --CGAGUCCCAUCGUGGUCG 73
chr-1.trna25-Arg-ACG    --CGAUCCCCAGCGGAGUCG 73
chr-1.trna19-Arg-ACG    --CGAUCCCCAGCGGAGUCG 73
chr-5.trna44-Arg-ACG    --CGAUCCCCAGCGGAGUCG 73
chr-5.trna33-Arg-ACG    --CGAUCCCCAGCGGAGUCG 73
chr-5.trna28-Arg-ACG    --CGAUCCCCAGCGGAGUCG 73
chr-9.trna2-Arg-ACG     --CGAUCCCCAGCGGAGUCG 73
chr-3.trna26-Arg-ACG    --CGAUCCCCAGCGGAGUCG 73
chr-4.trna8-Arg-ACG     --CGAUCCCCAGUGGAGUCG 73
chr-12.trna19-Arg-ACG   --CGAUCCCCAGUGGAGUCG 73
chr-10.trna21-Arg-ACG   --CGAUCCCCAGUGGAAUCG 73
chr-3.trna4-Arg-ACG     CUCGAUCCCCAGUGGAGUCG 75
chr-1.trna42-Arg-TCG    --CGACUCCCACUGUGGUCG 74
chr-3.trna7-Arg-TCG     --CGACUCCCACUGUGGUCG 74
chr-5.trna3-Arg-TCG     --CGACUCCCACUGUGGUCG 74
chr-5.trna4-Arg-TCG     --CGACUCCCACUGUGGUCG 74
chr-1.trna32-Arg-CCG    --CGAAUCCCACUAUGAUCG 73
chr-1.trna75-Arg-CCT    --CGACCCCUACCUGGCGCG 73
chr-12.trna35-Arg-CCT   --CGACCCCUACCUGGCGCG 73
chr-3.trna24-Arg-CCT    --CGACCCCUACCUGGCGCG 73
chr-3.trna63-Arg-CCT    --CGACCCCUACCUGGCGCG 73
chr-11.trna13-Arg-CCT   --CGACCCCUACCUGGCGCG 73
chr-5.trna27-Arg-CCT    --CGACCCCUACCUGGCGCG 73
chr-5.trna9-Arg-CCT     --CGACCCCUACCUGGCGCG 73
chr-12.trna26-Arg-CCT   --CGACCCCUACCUGGCGCG 73
chr-3.trna45-Arg-CCT    --CGAACCCUUCCUGGCGCA 73
chr-5.trna21-Arg-ACG    --CGAAUCCCUCCUCGCCCA 78
chr-2.trna9-Arg-ACG     --CGAAUCCCUCCUCGCCCA 77
chr-7.trna18-Arg-CCT    --CGACACCUAC--GUAACG 65
                        .........70.........
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