```
                         (((((((.....((((.........)))).(((((.....)))))).....(((((.
chr-1.trna85-Arg-CCT     GCGCUUG-----UAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGUCGUAGGU 54
chr-5.trna67-Arg-CCT     GCGCCUG-----UAGCUCAGUGGA-UAGAGCGUCCGUUUCCUAAGCGGAAGGUCGUAGGU 54
chr-3.trna117-Arg-CCT    GCGCCUG-----UAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGUCGUAGGU 54
chr-3.trna71-Arg-CCT     GCGCUUG-----UAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGUCGUAGGU 54
chr-6.trna59-Arg-CCT     GCGCCUG-----UAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGUCGUAGGU 54
chr-1.trna13-Arg-CCT     GCGCCUG-----UAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-1.trna150-Arg-CCT    GCGCCUG-----UAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-7.trna73-Arg-CCT     GCGCCUG-----UAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-4.trna125-Arg-CCT    GCGCCUG-----UAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGU 54
chr-4.trna183-Arg-TCG    GACCGCA-----UAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGU 55
chr-7.trna47-Arg-TCG     GACCGCA-----UAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-1.trna47-Arg-TCG     GACCGCA-----UAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-4.trna5-Arg-TCG      GACCGCA-----UAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-5.trna41-Arg-TCG     GACCGCA-----UAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGU 55
chr-2.trna114-Arg-TCG    GACCGCA-----UAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGU 55
chr-3.trna68-Arg-TCG     GACCGCA-----UAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGU 55
chr-7.trna5-Arg-CCG      GGUCGCA-----UAGCGGAGUGGA-UAUCGCGUUUGACUCCGAAUCUAAAGGUCGUGGGU 54
chr-1.trna35-Arg-TCT     GCACCCG-----UGGCCUAACGGA-UAAGGCGUUUGACUUCUAAUCAAGCGAUUGUGGGU 54
chr-1.trna42-Arg-TCT     GCGCCCA-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGGU 54
chr-1.trna102-Arg-TCT    GCGCUCA-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGGU 54
chr-2.trna39-Arg-TCT     GCGCCCA-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGGU 54
chr-2.trna49-Arg-TCT     GCGCCCA-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGGU 54
chr-3.trna62-Arg-TCT     GCGCCCA-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGGU 54
chr-8.trna5-Arg-TCT      GCGCCCA-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGGU 54
chr-7.trna80-Arg-TCT     GCACCCG-----UGGCCUAAUGGA-UAAGGCGUUUGACUUCUAAUCAAGCGAUUGUGGGU 54
chr-4.trna122-Arg-TCT    GCACCCG-----UGGCCUAAUGGA-UAAGGCGUUUGACUUCUAAUCAAGCGAUUGUGGGU 54
chr-4.trna123-Arg-TCT    GCGCCCG-----UGGCCUAAUGGA-UAAGGCGUUUGACUUCUAAUCAAGCGAUUGUGGGU 54
chr-2.trna76-Arg-TCT     GCACCCG-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGGU 54
chr-3.trna80-Arg-CCG     GGUCGCG-----UGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGU 54
chr-8.trna111-Arg-CCG    GACCGCG-----UGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGU 54
chr-7.trna63-Arg-CCG     GUUCGCG-----UGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGU 54
chr-4.trna69-Arg-ACG     GACUCCG-----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-4.trna67-Arg-ACG     GACUCCG-----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-1.trna88-Arg-ACG     GACUUCA-----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-4.trna103-Arg-ACG    GACUCUG-----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-5.trna65-Arg-ACG     GACUUCA-----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-1.trna152-Arg-ACG    GACUUCA-----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-3.trna48-Arg-ACG     GACUUCA-----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-8.trna23-Arg-ACG     GACUUCA-----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-3.trna107-Arg-ACG    GACUCCA-----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-8.trna63-Arg-ACG     GACUUCA-----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-3.trna49-Arg-ACG     GAUAUCA-----UGGCCCAAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGU 54
chr-4.trna151-Arg-TCT    GCGUCCA-----UUGUCUAAUGGA-UAGGACAGAGGUCUUCUAAACCUUUGGU-AUAGGU 53
chr-4.trna165-Arg-TCT    GCGUCCA-----UUGUCUAAUGGA-UAGGACAGAGGUCUUCUAAACCUUUGGU-AUAGGU 53
chr-6.trna60-Arg-TCT     GCACCCA-----UGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGUGAUUGUGGGU 54
chr-1.trna77-Arg-ACG     GGGUGGGGCCUGUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCACGGUGUCGGGGGU 60
chr-4.trna3-Arg-ACG      GGGUGGGGCCUGUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCACGGUGUCGGGGGU 60
chr-4.trna25-Arg-ACG     GGGUGGGGCCUGUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCACGGUGUCGGGGGU 60
chr-7.trna13-Arg-ACG     GGGUGGGGCCUGUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCACGGUGUCGGGGGU 60
chr-5.trna18-Arg-ACG     GGGC-----UUGUAGCUCAGAGGAUUAGAGCACGUGGUUACGAACCACGAUGUCGGGGGU 55
                         .........10........20........30........40........50.........
                         ......))))))))).))).
chr-1.trna85-Arg-CCT     UCGACCCCUACCUGG--CGCG 73
chr-5.trna67-Arg-CCT     UCGACCCCUACCUGG--CGCG 73
chr-3.trna117-Arg-CCT    UCGACCCCUACCUGG--CGCG 73
chr-3.trna71-Arg-CCT     UCGACCCCUAUCUGG--CGCG 73
chr-6.trna59-Arg-CCT     UCGACCCCUAUCUGG--CGUG 73
chr-1.trna13-Arg-CCT     UCGACCCCUACCUGG--CGCG 73
chr-1.trna150-Arg-CCT    UCGACCCCUACCUGG--CGCG 73
chr-7.trna73-Arg-CCT     UCGACCCCUACCUGG--CGCG 73
chr-4.trna125-Arg-CCT    UCGACCCCUACCUGG--CGCG 73
chr-4.trna183-Arg-TCG    UCGACUACCAUUGUG--GUCG 74
chr-7.trna47-Arg-TCG     UCGACUCCCACUGUG--GUCG 74
chr-1.trna47-Arg-TCG     UCGACUCCCACUGUG--GUCG 74
chr-4.trna5-Arg-TCG      UCGACUCCCACUGUG--GUCG 74
chr-5.trna41-Arg-TCG     UCGACUCCCACUGUG--GUCG 74
chr-2.trna114-Arg-TCG    UCGACUCCCACUGUG--GUCG 74
chr-3.trna68-Arg-TCG     UCGACUCCCACUGUG--GUCG 74
chr-7.trna5-Arg-CCG      UCGAUUCCCACUGCG--AUCA 73
chr-1.trna35-Arg-TCT     UCGAGUCCCACCGGG--UGUG 73
chr-1.trna42-Arg-TCT     UCGAGUCCCACUGGG--CGUG 73
chr-1.trna102-Arg-TCT    UCGAGUCCCACUGGG--CGUG 73
chr-2.trna39-Arg-TCT     UCGAGUCCCACUGGG--CGUG 73
chr-2.trna49-Arg-TCT     UCGAGUCCCACUGGG--CGUG 73
chr-3.trna62-Arg-TCT     UCGAGUCCCACUGGG--CGUG 73
chr-8.trna5-Arg-TCT      UCGAGUCCCACUGGG--CGUG 73
chr-7.trna80-Arg-TCT     UCGAGUCCCACCGGG--UGUG 73
chr-4.trna122-Arg-TCT    UCGAGUCCCACCGGG--UGUG 73
chr-4.trna123-Arg-TCT    UCGAGUCCCACCGGG--CGUG 73
chr-2.trna76-Arg-TCT     UCGAGUCCCACCGGG--UGUG 73
chr-3.trna80-Arg-CCG     UCGAGUCCCACCGUG--AUCG 73
chr-8.trna111-Arg-CCG    UCGAGUCCCACCGUG--GUCG 73
chr-7.trna63-Arg-CCG     UCGAGUCCCAUCGUG--AACG 73
chr-4.trna69-Arg-ACG     UCGAUCCCCAGCGGA--GUCG 73
chr-4.trna67-Arg-ACG     UCGAUCCCCAGCGGA--GUCG 73
chr-1.trna88-Arg-ACG     UCGAUCCCCAGUGAA--GUCG 73
chr-4.trna103-Arg-ACG    UCGAUCCCCAGCAGA--GUCG 73
chr-5.trna65-Arg-ACG     UCGAUCCCCAGUGAA--GUCG 73
chr-1.trna152-Arg-ACG    UCGAUCCCCAGUGAA--GUCG 73
chr-3.trna48-Arg-ACG     UCGAUCCCCAGUGAA--GUCG 73
chr-8.trna23-Arg-ACG     UCGAUCCCCAGUGAA--GUCG 73
chr-3.trna107-Arg-ACG    UCGAUCCCCAGUGGA--GUCG 73
chr-8.trna63-Arg-ACG     UCGAUCCCCAGUGAA--GUCG 73
chr-3.trna49-Arg-ACG     UCGACCCCCAGUGAA--GUCG 73
chr-4.trna151-Arg-TCT    UCAAAUCCUAUUGGA--CGCA 72
chr-4.trna165-Arg-TCT    UCAAAUCCUAUUGGA--CGCA 72
chr-6.trna60-Arg-TCT     UUGAGUUCCAUUGGGUUGUU 75
chr-1.trna77-Arg-ACG     UCGAAUCCCUCCUCG--CCCA 79
chr-4.trna3-Arg-ACG      UCGAAUCCCUCCUCG--CCCA 79
chr-4.trna25-Arg-ACG     UCGAAUCCCUCCUCG--CCCA 79
chr-7.trna13-Arg-ACG     UCGAAUCCCUCCUCG--CCCA 79
chr-5.trna18-Arg-ACG     UAGAAUCCCUCCUCG--CCCA 74
                         .........70........80
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