```
                                 ((((((...((((.........)))).(((((.......)))))).....(((((.... 
chr-3.trna41-Arg-CCT    GCGCCUGU-AGCUC-AGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGUUCG 57
chr-3.trna45-Arg-CCT    GCGCCUGU-AGCUC-AGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGUUCG 57
chr-4.trna29-Arg-CCT    GCGCCUGU-AGCUC-AGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGUUCG 57
chr-18.trna10-Arg-CCT   GCGCCUGU-AGCUC-AGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGUUCG 57
chr-8.trna44-Arg-CCT    GCGCCUGU-AGCUC-AGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGUUCG 57
chr-11.trna5-Arg-CCT    GCGCCUGU-AGCUC-AGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGUAGGUUCG 57
chr-6.trna26-Arg-CCT    GCGCCUGU-AGCUC-AGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGUCAUAGGUUCG 57
chr-12.trna9-Arg-TCG    GACCGCAU-AGCGC-AGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGUUCG 58
chr-12.trna10-Arg-TCG   GACCGCAU-AGCGC-AGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGUUCG 58
chr-8.trna33-Arg-TCG    GACCGCAU-AGCGC-AGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGUUCG 58
chr-9.trna39-Arg-TCG    GACCGCAU-AGCGC-AGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGUUCG 58
chr-11.trna6-Arg-TCG    GACCGCAU-AGCGC-AGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGUUCG 58
chr-13.trna31-Arg-TCG   GACCGCAU-AGCGC-AGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGUUCG 58
chr-13.trna22-Arg-CCG   GAUCGCAU-AGCGG-AGUGGA-UAUCGCGUUAGACUCCGAAUCUAAAGGUCGUGGGUUCG 57
chr-1.trna26-Arg-ACG    GACUCCAU-GGCCC-AAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUUCG 57
chr-12.trna28-Arg-ACG   GACUCUGU-GGCCC-AAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUUCG 57
chr-4.trna32-Arg-ACG    GACUCCAU-GGCCC-AAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUUCG 57
chr-7.trna10-Arg-ACG    GACUCCAU-GGCCC-AAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUUCG 57
chr-10.trna17-Arg-ACG   GACUCCGU-GGCCC-AAUGGA-UAAGGCGCUGGUCUACGGAACCAGAGAUUCUGGGUUCG 57
chr-13.trna3-Arg-ACG    GACUCCAU-GGCCG-AAUGGA-UGAGGCGUUAGUCUACGAAAACAGAGAUUCUGGGUUUG 57
chr-3.trna5-Arg-TCT     GCGCCCGU-GGCCU-AAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGUUCG 57
chr-6.trna3-Arg-TCT     GCGCCCGU-GGCCU-AAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGUUCG 57
chr-18.trna39-Arg-TCT   GCGCCCGU-GGCCU-AAUGGA-UAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGUUCG 57
chr-18.trna7-Arg-TCT    GCGCCCGU-GGCCU-AAUGGA-CAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGUUCG 57
chr-13.trna10-Arg-TCT   GCGCCCGU-GGCCU-AAUGGA-CAAGGCGUCUGACUUCUAAUCAGGCGAUUGUGGGUUCG 57
chr-8.trna22-Arg-TCT    GCGCUCGU-GGCCU-AAUGGA-GAAGGCGUCUGACUUCUAAUCAGGCGACUGUGGGUUCG 57
chr-19.trna18-Arg-CCG   GAUCGCGU-GGCCU-AAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGUUCG 57
chr-4.trna5-Arg-CCG     GAUCGCGU-GGCCU-AAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGUUCG 57
chr-14.trna14-Arg-CCG   GUUCGCGU-GGCCU-AAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGUUCG 57
chr-11.trna20-Arg-TCT   ACGUCCAU-UAUCU-AAUGGA-UAGGAUAGAGGUCUUCUAAACCUUUGGU-AUAGGUUCA 56
chr-4.trna14-Arg-CCG    AGAUCUGUAAGCUCAAAUUGGUGUGAGCGCUCAAUUCCGGGUUGGGAGGAUGGUGGUUCA 60
chr-8.trna40-Arg-TCG    GACUGCAU-AGUAC-AGUAUAUUAGCACAUCUGACUUCGGAUCAGAAGGUCGUGGCUUUG 58
chr-9.trna29-Arg-GCG    GUGGUUGU-AGUUU-AGUGGU-GAGAAUUCCACAUUGCGACUGUGGAGA-CUUGGGCUCG 56
chr-3.trna39-Arg-CCT    GU-------AGCUC-AGUGGA-UAGAGCAUCUAUUUCCUAAGUAGAAAGUCGCAGGUUCG 51
                                .........10........20........30........40........50.........

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chr-3.trna41-Arg-CCT    ACCCCUACCUGGCGCG 73
chr-3.trna45-Arg-CCT    ACCCCUACCUGGCGCG 73
chr-4.trna29-Arg-CCT    ACCCCUACCUGGCGCG 73
chr-18.trna10-Arg-CCT   ACCCCUACCUGGCGCG 73
chr-8.trna44-Arg-CCT    ACCCCUACCUGGCGCG 73
chr-11.trna5-Arg-CCT    ACCCCUACCUGGCGCG 73
chr-6.trna26-Arg-CCT    ACCCCUAUCUGGCGCG 73
chr-12.trna9-Arg-TCG    ACUCCCACUGUGGUCG 74
chr-12.trna10-Arg-TCG   ACUCCCACUGUGGUCG 74
chr-8.trna33-Arg-TCG    ACUCCCACUGUGGUCG 74
chr-9.trna39-Arg-TCG    ACUCCCACUGUGGUCG 74
chr-11.trna6-Arg-TCG    ACUCCCACUGUGGUCG 74
chr-13.trna31-Arg-TCG   ACUCCCACUGUGGUCG 74
chr-13.trna22-Arg-CCG   AAUCCCACUGCGAUCG 73
chr-1.trna26-Arg-ACG    AUCCCCAGUGGAGUCG 73
chr-12.trna28-Arg-ACG   AUCCCCAGCAGAGUCG 73
chr-4.trna32-Arg-ACG    AUCCCCAGUGGAGUCG 73
chr-7.trna10-Arg-ACG    AUCCCCAGUGGAGUCG 73
chr-10.trna17-Arg-ACG   AUCCCCAGCGGAGUCG 73
chr-13.trna3-Arg-ACG    AUCCCCGGUGGAGUCG 73
chr-3.trna5-Arg-TCT     AGUCCCACCGGGCGUG 73
chr-6.trna3-Arg-TCT     AGUCCCACCGGGCGUG 73
chr-18.trna39-Arg-TCT   AGUCCCACCGGGCGUG 73
chr-18.trna7-Arg-TCT    AGUCCCACCGGGCGUG 73
chr-13.trna10-Arg-TCT   AGUCCCACCGGGCGUG 73
chr-8.trna22-Arg-TCT    AGUCCCACCGGGCGUG 73
chr-19.trna18-Arg-CCG   AGUCCCAUCGCGAUCG 73
chr-4.trna5-Arg-CCG     AGUCCCACCGUGAUCG 73
chr-14.trna14-Arg-CCG   AGUCCCAUCGUGAACG 73
chr-11.trna20-Arg-TCT   AAUCCUAUUGGACGCA 72
chr-4.trna14-Arg-CCG    AAUCCGCUCAGAUCUU 76
chr-8.trna40-Arg-TCG    ACUCCCACUAUGGUCA 74
chr-9.trna29-Arg-GCG    AAUCCUAGUAACCACA 72
chr-3.trna39-Arg-CCT    ACCCCUAUCUG--GCA 65
                                .........70.....
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