```
                                 (((((.....((..((((.........)))).(((((.......)))))).....(((((.
chr-C1.trna38-Arg-CCT    GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGU 54
chr-C1.trna55-Arg-CCT    GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGU 54
chr-C2.trna8-Arg-CCT     GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGU 54
chr-C3.trna5-Arg-CCT     GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGU 54
chr-C3.trna9-Arg-CCT     GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGU 54
chr-C3.trna163-Arg-CCT   GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGU 54
chr-C5.trna68-Arg-CCT    GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGU 54
chr-C5.trna81-Arg-CCT    GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGU 54
chr-C3.trna147-Arg-CCT   GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGAAGGU 54
chr-C1.trna6-Arg-CCT     GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAAGUCGAAGGU 54
chr-C9.trna25-Arg-CCT    GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGAAGGU 54
chr-C5.trna106-Arg-CCT   GCGCC-----UGUAGCUCAGUGGA-UAGAGCGUCUGUUUCCUAAGCAGAAGGCCGUAGGU 54
chr-C9.trna131-Arg-CCT   GCGCC-----UGUACCUCUGUGGA-UAGAACGUCUGUUUCCUAAGCAGAAGGCCGUAGGU 54
chr-C3.trna71-Arg-CCT    GCGCC-----UGUAGCUCAGGG-----GAGCGUCUGUUUCCUAAGCAGAAGGCCGAAGGU 50
chr-C1.trna37-Arg-CCG    GAUCC-----CAUAGCGGAGUGGA-UAUCGCGUUAGACUCCGAAUCUAAAGGUCGUGGGU 54
chr-C5.trna48-Arg-CCG    GAUCC-----CAUAGCGGAGUGGA-UAUCGCGUUAGACUCCGAAUCUAAAGGUUCGUGGGU 54
chr-C2.trna47-Arg-TCG    GACCG-----CAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUUGUGGGU 55
chr-C5.trna54-Arg-TCG    GACCG-----CAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-C3.trna55-Arg-TCG    GACCG-----CAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-C9.trna127-Arg-TCG   GACCG-----CAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-C8.trna143-Arg-TCG   GACCG-----CAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGU 55
chr-C5.trna98-Arg-TCG    GACCG-----CAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGU 55
chr-C8.trna73-Arg-TCG    GACCG-----CAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGU 55
chr-C2.trna151-Arg-TCG   GACCG-----CAUAGCGCAGUGGAUUAGCGCGUUUGACUUCGGAUCAAAAGGUCGUGGGU 55
chr-C3.trna121-Arg-TCG   GACCG-----CAUAGCGCAGUGGAUUAGCGCGUCUGACUUCGGAUCAGAAGGUCGUGGGU 55
chr-C2.trna43-Arg-CCG    GGCCG-----CGUGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGU 54
chr-C6.trna50-Arg-CCG    GACCG-----CGUGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGU 54
chr-C8.trna136-Arg-CCG   GGCCG-----CGUGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUGUGGGU 54
chr-C8.trna66-Arg-CCG    GGCCG-----CGUGGCCUAAUGGA-UAAGGCGCUCGCCUCCGGAGCGGGAGAUUCUGGGU 54
chr-C1.trna92-Arg-TCT    GCACC-----CAUGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGGU 54
chr-C3.trna123-Arg-TCT   GCACC-----CAUGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGGU 54
chr-C7.trna78-Arg-TCT    GCACC-----CAUGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGGU 54
chr-C7.trna93-Arg-TCT    GCACC-----CAUGGCCUAAUGGA-UAAGGCGCUUGACUUCUAAUCAAGCGAUUGUGGGU 54
chr-C1.trna54-Arg-TCT    GCACC-----CGUGGCCUAAUGGA-UAAGGCGUUUGACUUCUAAUCAAACGAUUGUGGGU 54
chr-C3.trna4-Arg-TCT     GCGCC-----CGUGGCCUAAUGGA-UAAGGCGUUUGACUUCUAAUCAAACGAUUGUGGGU 54
chr-C3.trna41-Arg-TCT    GCGCC-----CGUGGCCUAAUGGA-UAAGGCGUUUGACUUCUAAUCAAACGAUUGUGGGU 54
chr-C3.trna167-Arg-TCT   GCACC-----CGUGGCCUAAUGGA-UAAGGCGUUUGACUUCUAAUCAAACGAUUGUGGGU 54
chr-C4.trna61-Arg-TCT    GCGCC-----CGUGGCCUAAUGGA-UAAGGCGUUUGACUUCUAAUCAAACGAUUGUGGGU 54
chr-C4.trna66-Arg-TCT    GCGCC-----CGUGGCCUAAUGGA-UAAGGCGUUUGACUUCUAAUCAAACGAUUGUGGGU 54
chr-C9.trna130-Arg-TCT   GCGCC-----CGUGGCCUAAUGGA-UAAGGCGUUUGACUUCUAAUCAAACGAUUGUGGGU 54
chr-C5.trna67-Arg-TCT    GCACC-----CGUGGCCUAAUGGA-UAAGGCGUUUGACUUCUAAUCAAACGAUUGUGGGU 54
chr-C1.trna93-Arg-TCT    GCGCC-----CGUGGCCCAAUGGA-UAAGGCGUCUGACUUCUAAUCAGACGAUUGUGGGU 54
chr-C7.trna80-Arg-TCT    GCACC-----CGUGGCCCAAUGGA-UAAGGCGUCUGACUUCUAAUCAGACGAUUGUGGGU 54
chr-C4.trna141-Arg-TCT   GCGCC-----CGUGGCCUAAUGGA-UAAGGCGUUUGACUUCUAAUCAAACGAUUGUGGGU 54
chr-C3.trna124-Arg-ACG   GACUU-----CAUGGCCCAAUGGA-CAAGGCGCCGGUCUACGAAACCGGAGAUUCUGGGU 54
chr-C4.trna89-Arg-ACG    GACUC-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGAUUCUGGGU 54
chr-C8.trna56-Arg-ACG    GACUU-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGAUUCUGGGU 54
chr-C4.trna72-Arg-ACG    GACUU-----UGUGGCCCAAUGGA-UAAGGCACUGGUCUACGAAACCAUAGAUUAUGGGA 54
chr-C8.trna59-Arg-ACG    GACUC-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGACUCUGGGU 54
chr-C8.trna98-Arg-ACG    GACUC-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGACUCUGGGU 54
chr-C4.trna104-Arg-ACG   GACUU-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGAUUCUGGGU 54
chr-C2.trna143-Arg-ACG   GACUC-----UGUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGAUUCUGGGU 54
chr-C4.trna44-Arg-ACG    GACUC-----UGUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGAUUCUGGGU 54
chr-C1.trna99-Arg-ACG    GACUU-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGAUUCUGGGU 54
chr-C5.trna96-Arg-ACG    GACUU-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGAUUCUGGGU 54
chr-C7.trna79-Arg-ACG    GACUU-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGAUUCUGGGU 54
chr-C5.trna44-Arg-ACG    GGUUC-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGAUUCUGAGU 54
chr-C7.trna87-Arg-ACG    GACUU-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGAUUCUGGGU 54
chr-C8.trna114-Arg-ACG   GACUC-----UGUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGAUUCUGGGU 54
chr-C4.trna4-Arg-ACG     GACUC-----CAUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGAUUCUGGGU 54
chr-C2.trna80-Arg-ACG    GACUC-----CGUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGAUUUUGGGU 54
chr-C3.trna146-Arg-ACG   GACUC-----CGUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGAUUCUUGGU 54
chr-C3.trna142-Arg-ACG   GACUU-----UGUGGCCCAAUGGA-UAAGGCGCUGGUCUACGAAACCAGAGAUUAUGAGA 54
chr-C3.trna137-Arg-ACG   GACUU-----UGUGGCCCAAUGGA-UAAGGCACUGGUCUACGAAACCAGAGAUUAUGGGA 54
chr-C1.trna83-Arg-ACG    GACUU-----UGUGGCCCAAUGGA-UAAGGCACUGGUCUACGAAACCAGAGAUUAUGGGA 54
chr-C4.trna147-Arg-ACG   GACUU-----UGUGGCCCAAUGGA-UAAGGCACUGGUCUACGAAACCAGAGAUUAUGGGA 54
chr-C2.trna134-Arg-ACG   GACUU-----UGUGGCCCAAUGGA-UAAGGCACUGGUCUACGAAACCAGAGAUUAUGGGA 54
chr-C3.trna194-Arg-ACG   GACUU-----UGUGGCCCAAUGGA-UAAGGCACUGGUCUACGAAACCAGAGAUUAUGGGA 54
chr-C6.trna1-Arg-ACG     GACUU-----UGUGGCCCAAUGGA-UAAGGCACUGGUCUACGAAACCAGAGAUUAUGGGA 54
chr-C4.trna64-Arg-ACG    GACUU-----UGUGGCCCUAAUGGA-UAAGGCACUGGUCUACGAAACCAGAGAUUAUGGGA 54
chr-C4.trna34-Arg-TCG    GACUU-----UGUGGCCCAAUGGA-UAAGGCAACUUGGUCUCGAACCAGAGAUUAUGGGA 54
chr-C3.trna126-Arg-TCT   GCGCC-----CGUGGCCCGAUGGA-UAAGGCGUCUGACUUCUAAUCAGA-----CUGGGU 49
chr-C2.trna110-Arg-TCT   GCGUC-----CAUUGUCUAAUGGA-UAGGACAUAGGUCUUCUAAACCUUUGGU-AUAGGU 53
chr-C9.trna167-Arg-ACG   GGG-----CUUGUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCACGGUGUCGGGGGG 55
chr-C2.trna63-Arg-ACG    GGG-----CUUGUAGCUCAGAGGAUUAGAGCGCGUGGCUACGAACCACGGUGUC--GGGG 53
chr-C2.trna59-Arg-ACG    GGGUGGGGCUUGUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCACGGUGUCG-GGGU 59
chr-C2.trna106-Arg-ACG   GGGUGGGGCUUGUAGCUCAGAGGAUUAGAGCACGUGGCUACGAACCACGGUGUCGGGGU 60
chr-C7.trna203-Arg-TCT   GU----------AGCCUAAUGGUUAAGGUUUAAAGGCUUCUAACCUAA--GUCUGGGU 47
                         .........10........20........30........40........50.........
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                         .......))))))))))..)).
chr-C1.trna38-Arg-CCT    UCGAC-CCCUACCUGGC--GCG 73
chr-C1.trna55-Arg-CCT    UCGAC-CCCUACCUGGC--GCG 73
chr-C2.trna8-Arg-CCT     UCGAC-CCCUACCUGGC--GCG 73
chr-C3.trna5-Arg-CCT     UCGAC-CCCUACCUGGC--GCG 73
chr-C3.trna9-Arg-CCT     UCGAC-CCCUACCUGGC--GCG 73
chr-C3.trna163-Arg-CCT   UCGAC-CCCUACCUGGC--GCG 73
chr-C5.trna68-Arg-CCT    UCGAC-CCCUACCUGGC--GCG 73
chr-C5.trna81-Arg-CCT    UCGAC-CCCUACCUGGC--GCG 73
chr-C3.trna147-Arg-CCT   UCGAC-CCCUUCCUGGC--GCG 73
chr-C1.trna6-Arg-CCT     UCGAC-CCCUUCCUGGC--GCG 73
chr-C9.trna25-Arg-CCT    UCGAC-CAUUUCCUGGC--GCG 73
chr-C5.trna106-Arg-CCT   UCGAC-UCCUACCUGGCGGGCG 75
chr-C9.trna131-Arg-CCT   UCGAC-CCCUACCUGGC--GCG 73
chr-C3.trna71-Arg-CCT    UCGAC-CCUUUCCUGGC--GCG 69
chr-C1.trna37-Arg-CCG    UCGAU-UCCCACUGGGA--UCA 73
chr-C5.trna48-Arg-CCG    UCGAU-GCCCACUGGGA--UCA 73
chr-C2.trna47-Arg-TCG    UCCAC-UCCCACUGUGG--UCG 74
chr-C5.trna54-Arg-TCG    UCUAC-UCCCAAUGUGG--UCG 74
chr-C3.trna55-Arg-TCG    UCGAC-UCCCACUGUGG--UCG 74
chr-C9.trna127-Arg-TCG   UCGAC-UCCCACUGUGG--UCG 74
chr-C8.trna143-Arg-TCG   UCGAC-UCCCACUGUGG--UCG 74
chr-C5.trna98-Arg-TCG    UCGAC-UCCCACUGUGG--UCG 74
chr-C8.trna73-Arg-TCG    UCGAC-UCCCACUGUGG--UCG 74
chr-C2.trna151-Arg-TCG   UCGAC-GCCCACUGUGG--UCG 74
chr-C3.trna121-Arg-TCG   UCGAC-GCCCUCUGUGG--UCG 74
chr-C2.trna43-Arg-CCG    UCGAG-UCCCACCCUGG--UCG 73
chr-C6.trna50-Arg-CCG    UCGAG-UCCCACCGUGG--UCG 73
chr-C8.trna136-Arg-CCG   UCGAG-UCCCACCGUGG--UCG 73
chr-C8.trna66-Arg-CCG    UCGAG-UCCCAGCGUGG--UCG 73
chr-C1.trna92-Arg-TCT    UCGAG-UCCCACUGGGU--GUG 73
chr-C3.trna123-Arg-TCT   UCGAG-UCCCACUGGGU--GUG 73
chr-C7.trna78-Arg-TCT    UCGAG-UCCCACUGGGU--GUG 73
chr-C7.trna93-Arg-TCT    UCGAG-UCCCACUGGGU--GUG 73
chr-C1.trna54-Arg-TCT    UCGAG-UCCCACCGGGU--GUG 73
chr-C3.trna4-Arg-TCT     UCGAG-UCCCACCGGGC--GUG 73
chr-C3.trna41-Arg-TCT    UCGAG-UCCCACCGGGC--GUG 73
chr-C3.trna167-Arg-TCT   UCGAG-UCCCACCGGGU--GUG 73
chr-C4.trna61-Arg-TCT    UCGAG-UCCCACCGGGC--GUG 73
chr-C4.trna66-Arg-TCT    UCGAG-UCCCACCGGGC--GUG 73
chr-C9.trna130-Arg-TCT   UCGAG-UCCCACCGGGC--GUG 73
chr-C5.trna67-Arg-TCT    UCGAG-UCCCACCGGGU--GUG 73
chr-C1.trna93-Arg-TCT    UCGAG-UCCCACCGGGC--GUG 73
chr-C7.trna80-Arg-TCT    UCGAU-CCCCACCGGGU--GUG 73
chr-C4.trna141-Arg-TCT   UCGCG-UACCACCGGGC--GUG 73
chr-C3.trna124-Arg-ACG   UCGAU-UACCAGUGAAG--UCG 73
chr-C4.trna89-Arg-ACG    UCGAU-ACCCAGUGCAG--UCG 73
chr-C8.trna56-Arg-ACG    UCGAU-CCCCAGUGUAG--UCG 73
chr-C4.trna72-Arg-ACG    UCGAU-CCCCAGCAGAG--UCU 73
chr-C8.trna59-Arg-ACG    UCGAU-CCCCAGUGGAG--UCG 73
chr-C8.trna98-Arg-ACG    UCGAU-CCCCAGUGGAG--UCG 73
chr-C4.trna104-Arg-ACG   UCGAU-CCCCAGUGAAG--UCG 73
chr-C2.trna143-Arg-ACG   UCGAU-CCCCAGCAGAG--UCG 73
chr-C4.trna44-Arg-ACG    UCGAU-CCCCAGCAGAG--UCG 73
chr-C1.trna99-Arg-ACG    UCGAU-CCCCAGUGAAG--UCG 73
chr-C5.trna96-Arg-ACG    UCGAU-CCCCAGUGAAG--UCG 73
chr-C7.trna79-Arg-ACG    UCGAU-CCCCAGUGAAG--UCG 73
chr-C5.trna44-Arg-ACG    UCGAU-CCUCAGUGGAA--UCG 73
chr-C7.trna87-Arg-ACG    UCGAU-ACCCAGUGAAG--UCG 73
chr-C8.trna114-Arg-ACG   UCGAU-UCCCAGCAGAG--UCG 73
chr-C4.trna4-Arg-ACG     UCGCUCCCCCAGUGGAG--UCG 74
chr-C2.trna80-Arg-ACG    UCAAU-GCCUAGCGGAG--UCG 73
chr-C3.trna146-Arg-ACG   UCGAU-GGCCAGCGGAU--UCG 73
chr-C3.trna142-Arg-ACG   UCGAU-CCCCAACAGAG--UCU 73
chr-C3.trna137-Arg-ACG   UCGAU-CCCCAGCAGAG--UCU 73
chr-C1.trna83-Arg-ACG    UCGAU-CCCUAGCAGAG--UCU 73
chr-C4.trna147-Arg-ACG   UCGAU-CCCCAGCAGAG--UCU 73
chr-C2.trna134-Arg-ACG   UCGAU-CCCCAGCAGAG--UCU 73
chr-C3.trna194-Arg-ACG   UCGAU-CCCCAGCAGAG--UCU 73
chr-C6.trna1-Arg-ACG     UCGAU-CCCCAGCAGAG--UCU 73
chr-C4.trna64-Arg-ACG    UCGAU-CCCCAGAGAG--UCU 73
chr-C4.trna34-Arg-TCG    UCGAU-CCCCAGCAGAG--UCU 73
chr-C3.trna126-Arg-TCT   UCGAA-UACCACCGGGC--GUG 68
chr-C2.trna110-Arg-TCT   UCAAA-UCCUAUUGGAC--CUA 72
chr-C9.trna167-Arg-ACG   UUCAAUCCCUCCUAAGC--ACA 75
chr-C2.trna63-Arg-ACG    UUGAAUCCCUCCU-CGC--CCA 72
chr-C2.trna59-Arg-ACG    UCGAAU-CCUCCU-CGC--CCA 77
chr-C2.trna106-Arg-ACG   UCGAAU-CCUCCU-CGC--CCA 78
chr-C7.trna203-Arg-TCT   UCGAA--UCCCAGACUA-UGCA 66
                         .........70........80.
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