```
                         (((((((..((((.........)))).(((((.......)))))).....(((((.......
chr-16.trna12-Ala-AGC    GCUCUUGUAGCUC----GGUUAGAGCACCCGUUUAGCAAGCGGGAGGUCUUGAGUUCGAC 56
chr-9.trna64-Ala-AGC     GCUUUCAUAGCUCAGUUGGUUAGAGCACCCGUUUAGCAAGCGGGAACUCUUGAGUUCGAC 60
chr-14.trna34-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGUGAGAGGUACGGGGAUCGAU 59
chr-14.trna36-Ala-AGC    GGGGAUGUAGCUUAGAUGG-UAGAGUGCUCGCUUAGCAUGUGAGAGGUAUAGGGAUUGAU 59
chr-14.trna35-Ala-AGC    GGGGAUGUAGCUUAGAUGG-UAGAGCGCUUGCUUAGCAUGUGAGAGGUACGGGGAUUGAU 59
chr-6.trna5-Ala-AGC      GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGCACGGGGAUCGAU 59
chr-2.trna69-Ala-AGC     GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGCACGGGGAUCGAU 59
chr-18.trna53-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGCACGGGGAUCGAU 59
chr-5.trna24-Ala-AGC     GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-9.trna16-Ala-AGC     GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-9.trna34-Ala-AGC     GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-19.trna38-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-10.trna7-Ala-AGC     GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-24.trna45-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-17.trna46-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-10.trna76-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-17.trna24-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-12.trna44-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-15.trna20-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-14.trna49-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-14.trna48-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-14.trna47-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-14.trna46-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-14.trna21-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-14.trna33-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-14.trna37-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-14.trna40-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-14.trna39-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-14.trna45-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUAUGGGGAUCGAU 59
chr-14.trna44-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUAUGGGGAUCGAU 59
chr-6.trna13-Ala-AGC     GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-7.trna45-Ala-AGC     GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-19.trna19-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 59
chr-24.trna68-Ala-AGC    GGGGAUGUAGCUCAGAUGA-UAGAGCGCUCGCUUAGCAUGCGAGAGGUAUGGGGAUCGAU 59
chr-5.trna63-Ala-AGC     GGGGAUGUAGCUCAGAUGG-UAGAGUGCUCGCUUAGCAUGCGAGAGGUACAGGGAUCGAU 59
chr-23.trna3-Ala-AGC     GGGGAUGUAGCUCAGGUGG-UAGAGCGCUCGCUUAGCAUGCGAGAGGUACGGAGAUCGAU 59
chr-17.trna25-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGAGAGAGGUACGGGGAUCGAU 59
chr-10.trna63-Ala-AGC    GGGGAUGUAGCUCAGAUGG-UAAAGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCAAU 59
chr-6.trna12-Ala-AGC     GGGGAUGUAGCUUAGAUGG-UAGAGCGCUCGCUUAGCAUGCAAGAGGUACGGGGAUCGAU 59
chr-25.trna8-Ala-AGC     GGGGUUGUAGCUCAGAUGG-UAGAGCGCUCGCUUAGCAUGCAAGAGGUACGGGGAUCGAU 59
chr-14.trna41-Ala-AGC    GGGGAU--AGCUCAGAUGG-UAGAGCGCUUGCUUAGCAUGCGAGAGGUACGGGGAUCGAU 57
                         .........10........20........30........40........50.........

                         .)))))))))))).
chr-16.trna12-Ala-AGC    UCUCAACAAGAGCA 70
chr-9.trna64-Ala-AGC     UCUCAAUGAAAGCA 74
chr-14.trna34-Ala-AGC    ACCUCGCAUCUCUA 73
chr-14.trna36-Ala-AGC    ACCUUGCAUCUCCA 73
chr-14.trna35-Ala-AGC    ACCCCGCAUCUCCA 73
chr-6.trna5-Ala-AGC      ACCCCGCAUCUCCA 73
chr-2.trna69-Ala-AGC     ACCCCGCAUCUCCA 73
chr-18.trna53-Ala-AGC    ACCCCGCAUCUCCA 73
chr-5.trna24-Ala-AGC     ACCCCGCAUCUCCA 73
chr-9.trna16-Ala-AGC     ACCCCGCAUCUCCA 73
chr-9.trna34-Ala-AGC     ACCCCGCAUCUCCA 73
chr-19.trna38-Ala-AGC    ACCCCGCAUCUCCA 73
chr-10.trna7-Ala-AGC     ACCCCGCAUCUCCA 73
chr-24.trna45-Ala-AGC    ACCCCGCAUCUCCA 73
chr-17.trna46-Ala-AGC    ACCCCGCAUCUCCA 73
chr-10.trna76-Ala-AGC    ACCCCGCAUCUCCA 73
chr-17.trna24-Ala-AGC    ACCCCGCAUUUCCA 73
chr-12.trna44-Ala-AGC    ACCCCGCAUCUCCA 73
chr-15.trna20-Ala-AGC    ACCCCGCAUCUCCA 73
chr-14.trna49-Ala-AGC    ACCCCGCAUCUCCA 73
chr-14.trna48-Ala-AGC    ACCCCGCAUCUCCA 73
chr-14.trna47-Ala-AGC    ACCCCGCAUCUCCA 73
chr-14.trna46-Ala-AGC    ACCCCGCAUCUCCA 73
chr-14.trna21-Ala-AGC    ACCCCGCAUCUCCA 73
chr-14.trna33-Ala-AGC    ACCCCGCAUCUCCA 73
chr-14.trna37-Ala-AGC    ACCCCGCAUCUCCA 73
chr-14.trna40-Ala-AGC    ACCCCGCAUCUCCA 73
chr-14.trna39-Ala-AGC    ACCCCGCAUCUCCA 73
chr-14.trna45-Ala-AGC    ACCCCGCAUCUCUA 73
chr-14.trna44-Ala-AGC    ACCCCGCAUCUCCA 73
chr-6.trna13-Ala-AGC     AUCCCGCAUCUCCA 73
chr-7.trna45-Ala-AGC     ACCCCGUAUCUCCA 73
chr-19.trna19-Ala-AGC    ACCCCGUAUCUCCA 73
chr-24.trna68-Ala-AGC    ACCCCGCAUCUCCA 73
chr-5.trna63-Ala-AGC     ACCCCGCAUCUCCA 73
chr-23.trna3-Ala-AGC     ACCCCGCAUCUCCA 73
chr-17.trna25-Ala-AGC    ACCCCGCAUUUCCA 73
chr-10.trna63-Ala-AGC    ACCCCGCAUCUCCA 73
chr-6.trna12-Ala-AGC     ACCCUGUAUCUCCA 73
chr-25.trna8-Ala-AGC     ACCCCGCAUCUCCA 73
chr-14.trna41-Ala-AGC    ACCCCGCAUCUCCA 71
                         .........70...

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