```
                                 (((((((....((((.........)))).(((((.......)))))).............
chr-20.trna4-Tyr-GTA             GUCGUUG--UAGUAUAG-UGGUAAGUGUUUCCGCCUGUAACGCGGG-UGA---------- 46
chr-2.trna43-Tyr-GTA             CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-22.trna25-Tyr-GTA            CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-14.trna66-Tyr-GTA            CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACCGUAGAUCCUUAGGU---------- 47
chr-26.trna12-Tyr-GTA            CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-21.trna1-Tyr-GTA             CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-6.trna14-Tyr-GTA             CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-10.trna44-Tyr-GTA            CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-13.trna12-Tyr-GTA            CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-19.trna73-Tyr-GTA            CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-14.trna20-Tyr-GTA            CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-13.trna16-Tyr-GTA            CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-19.trna53-Tyr-GTA            CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-2.trna42-Tyr-GTA             CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-4.trna42-Tyr-GTA             CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-18.trna23-Tyr-GTA            CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-10.trna67-Tyr-GTA            CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-7.trna19-Tyr-GTA             CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-14.trna67-Tyr-GTA            CCGACCU--UAGCUCAG-UUGGUAGAGCAGAGGACUGUAGAUCCUUAGGU---------- 47
chr-4.trna40-Tyr-GTA             UCGACCU--UAGCUCAG-UUGGUAGGGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-12.trna66-Tyr-GTA            CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-19.trna29-Tyr-GTA            UCGACCU--UAGCUAAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-4.trna41-Tyr-GTA             UCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-13.trna13-Tyr-GTA            CCGACCU--UAGCUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-10.trna54-Tyr-GTA            CCGACCU--UAGUUCAG-UUGGUAGAGCGGAGGACUGUAGAUCCUUAGGU---------- 47
chr-13.trna17-Tyr-GTA            UCAAUUUGGUACAUAUGUUUGGUAGAGCGGAGGACUGUAGAUCGUUAGGU---------- 50
chr-15.trna49-Tyr-GTA            GGGUCAA--UGCCCAAGCGGUUAAUGGGGACUGACUGUAAAUUCGUUGGCAAUAUGUCUA 58
chr-20.trna63-Tyr-GTA            GGGUCAA--UGCCCAAGCGGUUAAUGGGGACUGACUGUAAAUUCGUUGGCAAUAUGUCUA 58
chr-19.trna113-Tyr-GTA           GGGUCGA--UGCCCGAGCAGUUAAUAGGGACGGACUGUAAAUUCGUUGGCAAUAUGUCUA 58
chr-19.trna78-Tyr-ATA            AGGUUGA--UGCCCGAGCGGUUAAUGGGAAUGGAUUAUAAAUUCAUUGGCAAUAUGUCUA 58
chr-23.trna17-Tyr-ATA            GGGUCGA--UGCCCGAGUGGUUAAUGGGGACGGACUAUAAAUUCGUUGGCAAUAUGUCUA 58
chr-22.trna40-Tyr-GTA            GGGUCGA--UUCCUGAGCGGUUAAUGGGGGCAGACUGUAAAUUUGUUGGCAAUAUGUCUA 58
chr-15.trna5-Tyr-GTA             GGGAGAG--UGGCCGAGUGGUCAAAAGCGACAGACUGUAAAUCUGUUGAA-GUUUUUCUA 57
                                 .........10........20........30........40........50.........

                                 .(((((.......)))))))))).)).
chr-20.trna4-Tyr-GTA             CCCGGGUUCGAUCCCUGGCAACG-GCG 72
chr-2.trna43-Tyr-GTA             CGCUGGUUCGAAUCAGGCAGGUC-GGA 73
chr-22.trna25-Tyr-GTA            CGCUGGUUCGAAUCCGGCAGGUC-GGA 73
chr-14.trna66-Tyr-GTA            CGCUGGUUCGAAUCCGGCAGGUC-GGA 73
chr-26.trna12-Tyr-GTA            CGCUGGUUCGAAUCCGGCAGGUC-GGA 73
chr-21.trna1-Tyr-GTA             CGCUGGUUCGAAUCCGGCAGGUC-GGA 73
chr-6.trna14-Tyr-GTA             CGCUGGUUCGAAUCCGGCAGGUC-GGA 73
chr-10.trna44-Tyr-GTA            CGCUGGUUCGAAUCCGGCAGGUC-GGA 73
chr-13.trna12-Tyr-GTA            CGCUGGUUCGAAUCCGGCAGGUC-GGA 73
chr-19.trna73-Tyr-GTA            CGCUGGUUCGAAUCCGGCAGGUC-GGA 73
chr-14.trna20-Tyr-GTA            CGCUGGUUCGAAUCCGGCAGGUC-GGA 73
chr-13.trna16-Tyr-GTA            CGCUGGUUCGAAUCCGGCAGGUC-GGA 73
chr-19.trna53-Tyr-GTA            CACUGGUUCGAAUCCGGUAGGUC-GGA 73
chr-2.trna42-Tyr-GTA             CACUGGUUCGAAUCCGGUAGGUC-GGA 73
chr-4.trna42-Tyr-GTA             CACUGGUUCGAAUCCGGUAGGUC-GGA 73
chr-18.trna23-Tyr-GTA            CACUGGUUCGAAUCCGGUAGGUC-GGA 73
chr-10.trna67-Tyr-GTA            CACUGGUUCGAAUCCGGUAGGUC-GGA 73
chr-7.trna19-Tyr-GTA             CACUGGUUCGAAUCCGGUAGGUC-GGA 73
chr-14.trna67-Tyr-GTA            CGCUGGUUCGAAUCCGGCAGGUC-GGA 73
chr-4.trna40-Tyr-GTA             CACUGGUUCGAAUCCGGUAGGUC-GGA 73
chr-12.trna66-Tyr-GTA            CACUGGUUCGAAUCCGGUAAGUC-GGA 73
chr-19.trna29-Tyr-GTA            CGCUGGUUCGAAUCCGGCAGGUC-GGA 73
chr-4.trna41-Tyr-GTA             CACUGGUUCGAAUCCGAUAGGUC-GGA 73
chr-13.trna13-Tyr-GTA            CGCUGGUUCGAAUCCUGCAGGUC-GGA 73
chr-10.trna54-Tyr-GTA            CGCUGGAUCGAAUCCUGCAGGUC-GGA 73
chr-13.trna17-Tyr-GTA            CGCUGGUUCGAAUCCAGCAGGUCAGAA 77
chr-15.trna49-Tyr-GTA            CGCUGGUUCAAAUCUAGCUCGGC-CCA 84
chr-20.trna63-Tyr-GTA            CGCUGGUUCAAAUCUAGCUCGGC-CCA 84
chr-19.trna113-Tyr-GTA           CGCUGGUUCAAAUCCAGCUCGGC-CCA 84
chr-19.trna78-Tyr-ATA            UGCUGGUUUAAAUCUAGCUCAAC-CCA 84
chr-23.trna17-Tyr-ATA            UACUGGUUAAAAUCCAGCUCGGC-CCA 84
chr-22.trna40-Tyr-GTA            CGCUCGUUCAAAUCCAGCUCGGC-CCA 84
chr-15.trna5-Tyr-GTA             CGUAGGUUCGAAUCCUGCCUCUC-CCA 83
                                 .........70........80......
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