```
                          (((..((((.......((((.............)))))..(((((....)))))))))))..
chr-A1.trna15-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A2.trna24-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A10.trna44-Asp-GTC    GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A2.trna34-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A10.trna22-Asp-GTC    GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A2.trna35-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A10.trna5-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A2.trna57-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A2.trna83-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A9.trna122-Asp-GTC    GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A9.trna112-Asp-GTC    GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A9.trna111-Asp-GTC    GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A9.trna93-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A9.trna89-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A9.trna75-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A2.trna111-Asp-GTC    GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A8.trna72-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A8.trna70-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A8.trna69-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A3.trna14-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A7.trna83-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A7.trna76-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A7.trna74-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A7.trna63-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A7.trna52-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A7.trna49-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A6.trna61-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A6.trna25-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A6.trna23-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A3.trna22-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A3.trna53-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A3.trna56-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A3.trna79-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A3.trna118-Asp-GTC    GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A4.trna41-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A4.trna25-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A4.trna5-Asp-GTC      GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A2.trna17-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUGCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A5.trna51-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A10.trna11-Asp-GTC    GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A9.trna125-Asp-GTC    GUC--GUUGUAGUAUAGUGG----UAAGUAUUCUGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A9.trna140-Asp-GTC    GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCAUGCGGGUGACCCGGGUU 54
chr-A2.trna117-Asp-GTC    GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCAGUCACGCGGGUGACCCGGGUU 54
chr-A3.trna19-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A5.trna6-Asp-GTC      GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A6.trna22-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A4.trna58-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAAUCCGCCUGUCACGCGGGUGACCCGAGUU 54
chr-A1.trna44-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCUGCCUGUCACCCGGGUGACCCGGGUU 54
chr-A2.trna39-Asp-GTC     GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACCCGGGUGACCCGGGUU 54
chr-A9.trna9-Asp-GTC      GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A10.trna62-Asp-GTC    GUC--GUUGUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 54
chr-A5.trna63-Asp-GTC     GUC--GUUGUAAUAUAGUGG----UAAGUAUUCCGCUAUGUCACACGGGUGACCCGGGUU 54
chr-A2.trna54-Asp-GTC     AUCAGAUUGUAGUAUAGUGG----CAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 56
chr-A4.trna8-Asp-GTC      GUU-----GUAGUAUAGUGG----UAAGUAUUCCGCCUGUCACGCGGGUGACCCGGGUU 51
chr-A10.trna43-Asp-GTC    GUC--GUUGUAGUAUAGUGGUAAUUAAGUAUUCUCGCCUGUCACGCGGAUGACCCGUGUU 58
chr-A7.trna97-Asp-ATC     UCC-GAUUGUUGUCUAGCUG---GUGAGGAUACUCGGCUAUCACCCGAGAGACCUGGGUU 56
                          .........10........20........30........40........50.........
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                          .....))))))))))))).
chr-A1.trna15-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A2.trna24-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A10.trna44-Asp-GTC    CGAUCCCCGGCAACGGCG 72
chr-A2.trna34-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A10.trna22-Asp-GTC    CGAUCCCCGGCAACGGCG 72
chr-A2.trna35-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A10.trna5-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A2.trna57-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A2.trna83-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A9.trna122-Asp-GTC    CGAUCCCCGGCAACGGCG 72
chr-A9.trna112-Asp-GTC    CGAUCCCCGGCAACGGCG 72
chr-A9.trna111-Asp-GTC    CGAUCCCCGGCAACGGCG 72
chr-A9.trna93-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A9.trna89-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A9.trna75-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A2.trna111-Asp-GTC    CGAUCCCCGGCAACGGCG 72
chr-A8.trna72-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A8.trna70-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A8.trna69-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A3.trna14-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A7.trna83-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A7.trna76-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A7.trna74-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A7.trna63-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A7.trna52-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A7.trna49-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A6.trna61-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A6.trna25-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A6.trna23-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A3.trna22-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A3.trna53-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A3.trna56-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A3.trna79-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A3.trna118-Asp-GTC    CGAUCCCCGGCAACGGCG 72
chr-A4.trna41-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A4.trna25-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A4.trna5-Asp-GTC      CGAUCCCCGGCAACGGCG 72
chr-A2.trna17-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A5.trna51-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A10.trna11-Asp-GTC    CGAUCCCCGGUAACGGCG 72
chr-A9.trna125-Asp-GTC    CGAUCCCCGGCAACGGCG 72
chr-A9.trna140-Asp-GTC    CGAUCCCCGGCAACGGCG 72
chr-A2.trna117-Asp-GTC    CGAUCCCCGGCAACGGCG 72
chr-A3.trna19-Asp-GTC     UGAUCCCCGGCAACGACG 72
chr-A5.trna6-Asp-GTC      CGAUCCCCGGCAAUGGCG 72
chr-A6.trna22-Asp-GTC     CGAUGCCCGGCAACGGCG 72
chr-A4.trna58-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A1.trna44-Asp-GTC     GGAUUCCCGGCAACGGCG 72
chr-A2.trna39-Asp-GTC     CGAUCCCCGGCAACGGCG 72
chr-A9.trna9-Asp-GTC      CGAU-CCCGGCAACGGCG 71
chr-A10.trna62-Asp-GTC    CGAU-CCCGGCAACGGCG 71
chr-A5.trna63-Asp-GTC     CGAUCCUCGGCAACGGCG 72
chr-A2.trna54-Asp-GTC     CGAUCCCUAGCAACGGUG 74
chr-A4.trna8-Asp-GTC      UGAUCUCCGGCGGCGACA 69
chr-A10.trna43-Asp-GTC    UGAU-CCCGGCAACGGCU 75
chr-A7.trna97-Asp-ATC     CAAGGACCGGCAACGGAG 74
                          .........70.......
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