```
                                 (((((((..((((.........)))).(((((.......)))))).....((((....(..
chr-2.trna127-Gln-TTG     UGGGGCGUGGCC-AA-GCGGUAAGGCAACGGGUUUUGGUCCCGCUAUUCGGAG----GUU 54
chr-6.trna136-Gln-TTG     UGGGGCGUGCCC-AA-GCGGUAAGGAAAUGGGUUUUGGUCCCGCUAUUCGAAG----GUU 54
chr-1.trna71-Gln-TTG      UGGGGCAUGGCC-AA-GCGGUAAGGCAACGGGUUUUGGUCCCGCUAUUUGGAG----GUU 54
chr-8.trna115-Gln-TTG     UGGGGCGUGGCC-AA-GCGGUAAGGCAACGGGUUUUGAUCCCGCUAUUCGGAG----GUU 54
chr-11.trna121-Gln-TTG    UAGGGCGUGGCU-AA-GCGGUAAGGCAACGGGUUUUGGUCCCGCUAUUCAGAG----GUU 54
chr-8.trna135-Gln-TTG     UGGGGCGUAGCC-AA-GCGGUAAGGCAAUGGGUUUUGGUCUCGCUAUUCGGAG----GUU 54
chr-2.trna20-Gln-TTG      UGGGGCGUGGCC-AA-GAGGUAAGGCAACGGGUUUUGGUCCCCCUAUUCGAAG----GUU 54
chr-6.trna160-Gln-TTG     UGGGGUGUGGCUCAA-GCAGUAAGGCAAUGGGUUUUGGUCCCGCUAUUCGGAG----GUU 55
chr-5.trna68-Gln-TTG      UGGAGUAUAGCC-AA-GUGGUAAGGCAUCGAUUUUUGGUACCGGCAAGCAAAG----GUU 54
chr-8.trna14-Gln-TTG      UGGAGUAUAGCC-AA-GUGGUAAGGCAUCGGUUUUUGGUACCGGCAUGCAAAG----GUU 54
chr-2.trna92-Gln-TTG      UGGAGUAUAGCC-AA-GUGGUAAGGCAUCGGUUUUUGGUACCGGCAUGCAAAG----GUU 54
chr-8.trna109-Gln-TTG     UGGAGUAUAGCC-AA-GUGGUAAGGCAUCGGUUUUUGGUACCGGCAUGCAAAG----GUU 54
chr-1.trna62-Gln-TTG      AGAAAUGUGGCGCAACUUGGUAGCAUAUUUGUUUUUGGUACAAAAUGUCACAG----GUU 56
chr-3.trna83-Gln-CTG      GGUUCCAUGGUCUAGUG-GUCAGGACAUUGGACUCUGAAUCCAGUAA-CCCGA----GUU 54
chr-4.trna5-Gln-CTG       GGUCCUAUGGUCUAGUG-GUCAGGACAUUGGACUCUGAAUCCAGUAA-CCCGA----GUU 54
chr-3.trna91-Gln-CTG      GGUUCCAUGGUCUAGUG-GUCAGGACAUUGGACUCUGAAUCCAGUAA-CCCGA----GUU 54
chr-5.trna24-Gln-CTG      GGUUCCAUGGUCUAGUG-GUCAGGACAUUGGACUCUGAAUCCAGUAA-CCCGA----GUU 54
chr-7.trna79-Gln-CTG      GGUCCCAUGGUCUAGUG-GUCAGGACAUUGGACUCUGAAUCCAGUAA-CCCGA----GUU 54
chr-2.trna64-Gln-CTG      GGUCCCAUGGUCUAGUG-GUUAGGACAUUGGACUCUGAAUCCAGUAA-CCCGA----GUU 54
chr-4.trna6-Gln-CTG       GGUCCUAUGGUCUAGGG-GUCAGGACAUUGGACUCUGAAUCCAGUAA-CCCGA----GUU 54
chr-10.trna114-Gln-CTG    GGUUCUAUGGUCUAGCG-GUUAGGACAUUGGACUCUGAAUCCAAUAG-CCCGA----GUU 54
chr-10.trna111-Gln-CTG    GGUCCUAUGGACUAGUG-GUUAGGACAUUGGACUCUGAAUCGGGUAA-CCCGA----GUC 54
chr-2.trna59-Gln-TTG      GGUUCUAUGGUGUAGUG-GUUAGCACUCUGGACUUUGAAUCCAGCGA-CCUGG----GUU 54
chr-2.trna88-Gln-TTG      GGUUCUAUGGUGUAGUG-GUUAGCACUCUGGACUUUGAAUCCAGCGA-CCUGG----GUU 54
chr-3.trna46-Gln-TTG      GGUUCUAUGGUGUAGUG-GUUAGCACUCUGGACUUUGAAUCCAGCGA-CCUGG----GUU 54
chr-4.trna7-Gln-TTG       GGUUCUAUGGUGUAGUG-GUUAGCACUCUGGACUUUGAAUCCAGCGA-CCUGG----GUU 54
chr-4.trna15-Gln-TTG      GGUUCUAUGGUGUAGUG-GUUAGCACUCUGGACUUUGAAUCCAGCGA-CCUGG----GUU 54
chr-5.trna49-Gln-TTG      GGUUCUAUGGUGUAGUG-GUUAGCACUCUGGACUUUGAAUCCAGCGA-CCUGG----GUU 54
chr-6.trna58-Gln-TTG      GGUUCUAUGGUGUAGUG-GUUAGCACUCUGGACUUUGAAUCCAGCGA-CCUGG----GUU 54
chr-9.trna40-Gln-TTG      GGUUCUAUGGUGUAGUG-GUUAGCACUCUGGACUUUGAAUCCAGCGA-CCUGG----GUU 54
chr-10.trna63-Gln-TTG     GGUUCUAUGGUGUAGUG-GUUAGCACUCUGGACUUUGAAUCCUGCAA-CCUGG----GUU 54
chr-4.trna8-Gln-TTG       GGUUUUAUGGUGUAGUG-GUUAGCACUCUGGACUUUGAAUCCAGCGA-CCUGG----GUU 54
chr-1.trna76-Gln-TTG      GGUUCUAUGGUGUAGUG-GUUAGCACUCUGUACUUUGAAACCAGCGA-CUUGG----GUU 54
chr-8.trna95-Gln-CTG      GGUCCCAUGGUCUAGUG-GUCAGGACAUUGGACUCUGAAUC----------GA----GUU 45
chr-3.trna87-Gln-CTG      GGGGUGGUGAUGCAGUUGGCUAACGCGUAGGUCUCUGUAUCCUAAGGUCGAGAGUUAGUU 60
                          .........10........20........30........40........50.........

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chr-2.trna127-Gln-TTG     CGAAUCCUUCU-GUCCCAG 72
chr-6.trna136-Gln-TTG     CGAAUCCUUCC-GUCCCAG 72
chr-1.trna71-Gln-TTG      CGAAUCCUUCC-GUCCCAG 72
chr-8.trna115-Gln-TTG     CGAAUUCAUCU-GUCCCAG 72
chr-11.trna121-Gln-TTG    CGAAUCCUUCC-GUCCCAG 72
chr-8.trna135-Gln-TTG     CGAAUCCUUCC-AUCCCAG 72
chr-2.trna20-Gln-TTG      CAAAUCCUUUC-GUCCCAG 72
chr-6.trna160-Gln-TTG     CGAAUCCUUCC-GUCCCAG 73
chr-5.trna68-Gln-TTG      CGAAUCCUUUU-ACUCUAU 72
chr-8.trna14-Gln-TTG      CGAAUCCUUUU-ACUCCAG 72
chr-2.trna92-Gln-TTG      CGAAUCCUUUU-ACUCCAG 72
chr-8.trna109-Gln-TTG     CGAAUCCUUUU-ACUCCAG 72
chr-1.trna62-Gln-TTG      CAAAUCCUGUC-AUCCCUG 74
chr-3.trna83-Gln-CTG      CAAAUCUCGGU-GGAACCU 72
chr-4.trna5-Gln-CTG       CAAAUCUCGGU-AGGACCU 72
chr-3.trna91-Gln-CTG      CAAAUCUCGGU-GGAACCU 72
chr-5.trna24-Gln-CTG      CAAAUCUCGGU-GGAACCU 72
chr-7.trna79-Gln-CTG      CAAAUCUCGGU-GGGACCU 72
chr-2.trna64-Gln-CTG      CAAAUCUCGGU-GGGACCU 72
chr-4.trna6-Gln-CTG       CAAAUCUCGGU-AGGACCU 72
chr-10.trna114-Gln-CTG    CAAUUCUCGGU-AGAACCU 72
chr-10.trna111-Gln-CTG    CAAAUCUCUGU-AGGAUCU 72
chr-2.trna59-Gln-TTG      CGACUCCCGGU-AGGACCU 72
chr-2.trna88-Gln-TTG      CGACUCCCGGU-AGGACCU 72
chr-3.trna46-Gln-TTG      CGACUCCCGGU-AGGACCU 72
chr-4.trna7-Gln-TTG       CGACUCCCGGU-AGGACCU 72
chr-4.trna15-Gln-TTG      CGACUCCCGGU-AGGACCU 72
chr-5.trna49-Gln-TTG      CGACUCCCGGU-AGGACCU 72
chr-6.trna58-Gln-TTG      CGACUCCCGGU-AGGACCU 72
chr-9.trna40-Gln-TTG      CGACUCCCGGU-AGGACCU 72
chr-10.trna63-Gln-TTG     CGACUCCCGAU-AGGACCU 72
chr-4.trna8-Gln-TTG       CGACUCCUGGUAGGAACCU 73
chr-1.trna76-Gln-TTG      CGACUGCCGAU-AGGACCU 72
chr-8.trna95-Gln-CTG      CAAAUCUCGGU-GGGACCU 63
chr-3.trna87-Gln-CTG      CCAGCCUCUCU-CAUCCCA 78
                          .........70........

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