```
                                (((((((....(((((.(((.....))).)))))).........((((...)))))..(((
chr-2.trna123-Ser-CGA     GUCGAUAUGUCCGAGUGGUUAAGGAGAUAGACUCGAAAUCUAUUGGGCUUUGCCUGCGCA 60
chr-2.trna125-Ser-CGA     GUCGAUAUGUCCGAGUGGUUAAGGAGAUAGACUCGAAAUCUAUUGGGCUUUGCCUGCGCA 60
chr-2.trna128-Ser-CGA     GUCGAUAUGUCCGAGUGGUUAAGGAGAUAGACUCGAAAUCUAUUGGGCUUUGCCUGCGCA 60
chr-5.trna241-Ser-CGA     GUCAAUAUGUCCGAGUGGUUAAGGAGAUAGACUCGAAAUCUAUUGGGCUUUGCCUGCGCA 60
chr-5.trna283-Ser-CGA     GUUGAUAUGUCCGAGUGGUUAAGGAGAUAGACUCGAAAUCUAUUGGGCUUUGCCUGCGCA 60
chr-11.trna16-Ser-CGA     GUCAAUAUGUCCGAGUGGUUAAGGAGAUAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-4.trna88-Ser-CGA      GUCAAUAUGUCUGAGUGGUUAAGGAGAUAGACUCGAAAUCUAUUGGGCUUUGCCUGCGCA 60
chr-1.trna98-Ser-CGA      GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-14.trna197-Ser-CGA    GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUAGGCUUUGCCUGCGCA 60
chr-5.trna50-Ser-CGA      GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-14.trna156-Ser-CGA    GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-8.trna224-Ser-CGA     GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-8.trna109-Ser-CGA     GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-10.trna129-Ser-CGA    GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-7.trna159-Ser-CGA     GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-3.trna92-Ser-CGA      GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-3.trna94-Ser-CGA      GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-10.trna107-Ser-CGA    GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-8.trna226-Ser-CGA     GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-11.trna184-Ser-CGA    GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-3.trna93-Ser-CGA      GUCGAUAUGUCCGAGUGGUUAAAGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-3.trna166-Ser-CGA     GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-7.trna167-Ser-CGA     GUCAAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUACGCA 60
chr-8.trna225-Ser-CGA     GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUAUGCCUGCGCA 60
chr-6.trna152-Ser-CGA     GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUUGGCUUUGCCUGCGCA 60
chr-5.trna236-Ser-CGA     GUCAAUAUGUCCGAGUGGUUAAGGAGAUAGACUCGAAAUCUAUUGGGCUUUGCCUGCGUA 60
chr-8.trna223-Ser-CGA     GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGCA 60
chr-3.trna106-Ser-CGA     GUCGAUAUGUCCGAGUGGUUAAGGAGAUAGACUCGAAAUCUGUUGGGCUUUGCCUGCGUA 60
chr-5.trna235-Ser-CGA     GUCAAUAUGUUCGAGUGGUUAAGGAGAUAGACUCGAAAUCUAUUGGGCUUUGCCUGCGCA 60
chr-5.trna280-Ser-CGA     GUCGAUAUGUUCGAGUGGUUAAGGAGAUAGACUCGAAAUCUAUUGGGCUUUGCCUGCGCA 60
chr-7.trna158-Ser-CGA     GUCGAUAUGU-CGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUCUGCCUGCGCA 59
chr-5.trna231-Ser-CGA     GUCAAUAUGUCCGAGUGGUUAAGGAGAUAGACUCGAAAUCUAUUGGGCUUUGCUUGCGCA 60
chr-5.trna222-Ser-CGA     GUCAAUAUGUUCGAGUGGUUAAGGAGAUAGACUCGAAAUUUAUUGGGCUUUGCUUGCGCC 60
chr-5.trna220-Ser-CGA     GGCAAUAUGUCUGAGUGGUUAAGGAGAUAGACCCGAAAUCUAUUGGGCUUUGCCUGCGUA 60
chr-6.trna99-Ser-CGA      GUCGAUAUGUCCGAGUGGUUAAGGAGACAGACUCGAAAUCUGUUGGGCUUUGCCUGCGUA 60
chr-5.trna217-Ser-CGA     GUCAAUAUGUUCGAGUGGUUAAGGAGAUAGACUCGAAAUCUACA--------------A 45
                          .........10........20........30........40........50.........
                                                                                      

                          ((.............)))))))))))).
chr-2.trna123-Ser-CGA     GGUUCGA------AUCCUGCUGUCGACG 82
chr-2.trna125-Ser-CGA     GGUUCGA------AUCCUGCUGUCGACG 82
chr-2.trna128-Ser-CGA     GGUUCGA------AUCCUGCUGUCGACG 82
chr-5.trna241-Ser-CGA     GGUUCGA------AUCCUGUUGUUGACG 82
chr-5.trna283-Ser-CGA     GGUUCGA------AUCCUGCUGUCGAUG 82
chr-11.trna16-Ser-CGA     GGUUCAA------AUCCUGCUGUUGACG 82
chr-4.trna88-Ser-CGA      GGUUCAA------AUCCUGCUGUUGACG 82
chr-1.trna98-Ser-CGA      GGUUCGA------AUCCUGCUGUCGACG 82
chr-14.trna197-Ser-CGA    GGUUCGA------AUCCUGCUGUCGACG 82
chr-5.trna50-Ser-CGA      GGUUCGA------AUCCUUCUGUCGACG 82
chr-14.trna156-Ser-CGA    GGUUCGA------AUCCUGCUGUCGACG 82
chr-8.trna224-Ser-CGA     GGUUCGA------AUCCUGCUGUCGACG 82
chr-8.trna109-Ser-CGA     GGUUCGA------AUCCUGCUGUCGACG 82
chr-10.trna129-Ser-CGA    GGUUCGA------AUCCUGCUGUCGACG 82
chr-7.trna159-Ser-CGA     GGUUCGA------AUCCUGCUGUCGACG 82
chr-3.trna92-Ser-CGA      GGUUCGA------AUCCUGCUGUCGACG 82
chr-3.trna94-Ser-CGA      GGUUCGA------AUCCUGCUGUCGACG 82
chr-10.trna107-Ser-CGA    GGUUCGA------AUCCUGCUGUCGACG 82
chr-8.trna226-Ser-CGA     GGUUCGA------AUCCUGCUGUCGACG 82
chr-11.trna184-Ser-CGA    GGUUCGA------AUCCUGCUGUCGACG 82
chr-3.trna93-Ser-CGA      GGUUCGA------AUCCUGCUGUCGACG 82
chr-3.trna166-Ser-CGA     GGUUCAA------AUCCUGCUGUCGACG 82
chr-7.trna167-Ser-CGA     GGUUCAA------AUCCUGCUGUUGACG 82
chr-8.trna225-Ser-CGA     GGUUCAA------AUCCUGCUGUCGACG 82
chr-6.trna152-Ser-CGA     GGUUCGA------AUCCUGCUGUCGACG 82
chr-5.trna236-Ser-CGA     GGUUUGA------AUACUACUGUUGACG 82
chr-8.trna223-Ser-CGA     GGUUCAA------AUCCUGCUGCCGACG 82
chr-3.trna106-Ser-CGA     GGUUCGA------AUCCUGCUGUCAACG 82
chr-5.trna235-Ser-CGA     GGUUCAA------AUCCUAUUGUUGACG 82
chr-5.trna280-Ser-CGA     GGUUCAA------AACCUGUUGUCGACG 82
chr-7.trna158-Ser-CGA     GGUUCAA------AUCCUGCUGUCGACG 81
chr-5.trna231-Ser-CGA     UGUUCGA------AUCCUUCUGUUGACG 82
chr-5.trna222-Ser-CGA     GGUUCGA------AUCCUGCUGUUGUCG 82
chr-5.trna220-Ser-CGA     GGUUUGA------AUCUUGCUGUUGAUG 82
chr-6.trna99-Ser-CGA      GGUUCGACGUUCUUUCUAGUUAUCAACU 88
chr-5.trna217-Ser-CGA     UGUUCGA------AUCCUGGUGUUGACG 67
                          .........70........80.......
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