```
                         (((((((..(((.............)))..((((........))))))..(((((.....
chr-B08.trna6-Ser-GCT    GUCGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-A01.trna45-Ser-GCT   GUCGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-B08.trna2-Ser-GCT    GUCGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-B08.trna8-Ser-GCT    GUCGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-B06.trna168-Ser-GCT  GUCGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-A05.trna88-Ser-GCT   GUCGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-A07.trna33-Ser-GCT   GUCGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-B06.trna4-Ser-GCT    GUCGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-B06.trna3-Ser-GCT    GUCGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-B08.trna7-Ser-GCT    GUCGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-B04.trna1-Ser-GCT    GUCGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-B03.trna193-Ser-GCT  GUCGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-B08.trna55-Ser-GCT   GUCGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-B03.trna8-Ser-GCT    GUCGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-A01.trna41-Ser-GCT   GACGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-B03.trna11-Ser-GCT   GACGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-B03.trna88-Ser-GCT   GACGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-B03.trna190-Ser-GCT  GACGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-B03.trna191-Ser-GCT  GACGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-B03.trna14-Ser-GCT   GACGCUUUGGCC---GAGUGG-UUAAGGCGUGUGCCUGCUA-AGUAC-AUGGGG---UUU 51
chr-A02.trna16-Ser-GCT   GGAGAGAUGGCU---GAGUGGACUAAAGCGUCGGAUUGCUA-AUCCGUUGUACGAAUUUU 56
chr-A03.trna19-Ser-GCT   GGAGAGAUGGCU---GAGUGGACUAAAGCGUCGGAUUGCUA-AUCCGUUGUACGAAUUUU 56
chr-A03.trna20-Ser-GCT   GGAGAGAUGGCU---GAGUGGACUAAAGCGUCGGAUUGCUA-AUCCGUUGUACGAAUUUU 56
chr-B07.trna115-Ser-GCT  GGAGAGAUGGCU---GAGUGGACUAAAGCGUCGGAUUGCUA-AUCCGUUGUACGAAUUUU 56
chr-A09.trna14-Ser-GCT   GGAGAGAUGGCU---GAGUGGACUAAAGCGUCGGAUUGCUA-AUCCGUUGUACGAAUUUU 56
chr-A01.trna24-Ser-GCT   GGAGAGAUGGCU---GAGUGGACUAAAGCACCGGAUUGCUA-AUCCGUUGUACGAAUUUU 56
chr-B05.trna58-Ser-GCT   GGAGAGAUGGCU---GAGUGGACUAAAGUGUCGGAUUGCUA-AUCCGUUGUACGAAUUUU 56
chr-A01.trna34-Ser-GCT   GGAGAGAUGGCU---GAGUGGACUAAAGCGUCGGAUUGCUA-AUCCGUUGUACGAAUUUU 56
chr-B06.trna107-Ser-GCT  GGAGAGAUGGCU---GAGUGGACUAAAGCAUUGGAUUGCUA-AUCCAUUGUACGAAUUUU 56
chr-A05.trna22-Ser-GCT   AGAGAGAUGGCU---AAGUGGACUAAAGCGUCGGAUUGCUA-AUCUGUUGUACAAAUUUU 56
chr-A09.trna12-Ser-GCT   GGAGAGAUGGCU---GAGUGGACUAAAGCGUCAGAUUGCUA-U--------------UUU 42
chr-B05.trna130-Ser-GCT  AGAGAGAUGGCU---AAGUGGACUAAAGCGUCGGAUUGCUA-U--------------UUU 42
chr-B06.trna86-Ser-GCT   GGAUCCAUGAGCUCAAGUUGGUAUGAGCGCCCAAACUGCUACGUCUG-GGAGGA------ 53
chr-B03.trna156-Ser-GCT  GC---GCUCAGUU--GGUGGGGAGAGCGCAGCAUCCUGCUG-GGGUG------------- 41
                         .........10........20........30........40........50.........

                         )))))..(((((.......)))))))))))).
chr-B08.trna6-Ser-GCT    CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-A01.trna45-Ser-GCT   CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-B08.trna2-Ser-GCT    CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-B08.trna8-Ser-GCT    CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-B06.trna168-Ser-GCT  CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-A05.trna88-Ser-GCT   CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-A07.trna33-Ser-GCT   CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-B06.trna4-Ser-GCT    CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-B06.trna3-Ser-GCT    CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-B08.trna7-Ser-GCT    CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-B04.trna1-Ser-GCT    CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-B03.trna193-Ser-GCT  CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-B08.trna55-Ser-GCT   CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-B03.trna8-Ser-GCT    CCCCGCGAGAGUUCGAAUCUCUCAGGCGACG 82
chr-A01.trna41-Ser-GCT   CCCCGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-B03.trna11-Ser-GCT   CCCCGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-B03.trna88-Ser-GCT   CCCCGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-B03.trna190-Ser-GCT  CCCCGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-B03.trna191-Ser-GCT  CCCCGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-B03.trna14-Ser-GCT   CCCCGCGAGAGUUCGAAUCUCUCAGGCGUCG 82
chr-A02.trna16-Ser-GCT   UGUACCGAGGGUUCGAAUCCCUCUCUUUCCG 87
chr-A03.trna19-Ser-GCT   UGUACCGAGGGUUCGAAUCCCUCUCUUUCCG 87
chr-A03.trna20-Ser-GCT   UGUACCGAGGGUUCGAAUCCCUCUCUUUCCG 87
chr-B07.trna115-Ser-GCT  UGUACCGAGGGUUCGAAUCCCUCUCUUUCCG 87
chr-A09.trna14-Ser-GCT   UGUACCGAGGGUUCGAAUCCCUCUCUUUCCA 87
chr-A01.trna24-Ser-GCT   UGUACCGAGGGUUCGAAUCCCUCUCUUUCCG 87
chr-B05.trna58-Ser-GCT   UGUACCGAGGGUUCGAAUCCCUCUCUUUCCG 87
chr-A01.trna34-Ser-GCT   UGUACCGAGGGUUCGAAUUUCUCUCUUUCCG 87
chr-B06.trna107-Ser-GCT  UGUACCGAGGGUUCGAAUCCCUCUCUUUCCG 87
chr-A05.trna22-Ser-GCT   UGUAUCGAGGGUUCGAAUUCCUCUCUUUUCG 87
chr-A09.trna12-Ser-GCT   UGUACCGAGGGUUCGAAUCCCUCUCUUUCCG 73
chr-B05.trna130-Ser-GCT  UGUACCGAGGGUUCGAAUCCCUCUCUUUCCG 73
chr-B06.trna86-Ser-GCT   -----UGGUGGUUCGACUCCACCUGGAUCCG 79
chr-B03.trna156-Ser-GCT  AGGCUCUAGG-UUCGAAUCCUUGGAGAAGCA 71
                         .........70........80........90
```