```
                         (((((((..((((........))))...(((((.......)))))).....(((((.....
chr-3.trna43-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGCGCGCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 60
chr-1.trna14-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-1.trna56-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-16.trna13-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-16.trna12-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-16.trna7-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-1.trna1-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-17.trna8-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-3.trna13-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-3.trna14-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-3.trna24-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-5.trna3-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-13.trna1-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-5.trna4-Ala-AGC      GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-11.trna26-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-5.trna56-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-6.trna47-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-7.trna18-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-7.trna12-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-1.trna46-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGC--GCUCGCUUAGCAUGCGAGAGGUACGGGGAUCGA 58
chr-6.trna46-Ala-TGC     GGGGAUGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGUACAGGGUUCGA 58
chr-5.trna12-Ala-TGC     GGGGAUGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGUACAGGGUUCGA 58
chr-18.trna15-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGUACAGGGUUCGA 58
chr-9.trna44-Ala-TGC     GGGGAUGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGUACAGGGUUCGA 58
chr-19.trna14-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGUACAGGGUUCGA 58
chr-13.trna9-Ala-TGC     GGGGAUGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGUACAGGGUUCGA 58
chr-3.trna33-Ala-TGC     GGGGAUGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGUACAGGGUUCGA 58
chr-1.trna27-Ala-TGC     GGGGAUGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGA 58
chr-16.trna5-Ala-TGC     GGGGAUGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGA 58
chr-1.trna66-Ala-TGC     GGGGAUGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGA 58
chr-6.trna36-Ala-TGC     GGGGAUGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGA 58
chr-9.trna9-Ala-TGC      GGGGAUGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGA 58
chr-1.trna67-Ala-TGC     GGGGAUGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGA 58
chr-14.trna10-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGA 58
chr-2.trna18-Ala-TGC     GGGGAUGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGCACGGGGUUCGA 58
chr-1.trna78-Ala-CGC     GGGGUUGUAGCUCAUAUGGUAGAGC--GCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGA 58
chr-3.trna16-Ala-CGC     GGGGUUGUAGCUCAUAUGGUAGAGC--GCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGA 58
chr-12.trna3-Ala-CGC     GGGGGUGUAGCUCAUAUGGUAGAGC--GCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGA 58
chr-14.trna9-Ala-CGC     GGGGAUGUAGCUCAUAUGGUAGAGC--GCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGA 58
chr-15.trna29-Ala-CGC    GGGGGUGUAGCUCAUAUGGUAGAGC--GCUCGCUUCGCAUGCGAGAGGCACGGGGUUCGA 58
chr-13.trna4-Ala-TGC     GGGGAUGUAGCACAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGUACAGGGUUCGA 58
chr-5.trna7-Ala-TGC      GGGGACGUAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGUACAAGGUUAGA 58
chr-5.trna9-Ala-TGC      ------GUAGCUCAAAUGGUAGAGC--GCU-GCUUUGCAUGCGAGAGGUACAGUGUUCGA 51
chr-5.trna10-Ala-TGC     ------GUAGCUCAAAUGGUAGAGC--GCU-GCUUUGCAUGCGAGAGGUACAGUGUUCGA 51
chr-5.trna8-Ala-TGC      ------GGAGCUCAAAUGGUAGAGC--GCUCGCUUUGCAUGCGAGAGGUACAGGGUUCGA 52
chr-1.trna80-Ala-AGC     GCUCUCGUAGCUCAGUUGGUUAGAG-CACCAAUCUAGCAAGC--UGGCUCUUGAGUUCGA 57
chr-1.trna75-Ala-TGC     GGG---GUAGCUCAACUGGUCAGGC--CUUGGGUUUGCUCCCCAAUGGUCAUGAAUUCGA 55
                         .........10........20........30........40........50.........

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chr-3.trna43-Ala-AGC     UACCCCGCAUCUCCA 75
chr-1.trna14-Ala-AGC     UACCCCGCAUCUCCA 73
chr-1.trna56-Ala-AGC     UACCCCGCAUCUCCA 73
chr-16.trna13-Ala-AGC    UACCCCGCAUCUCCA 73
chr-16.trna12-Ala-AGC    UACCCCGCAUCUCCA 73
chr-16.trna7-Ala-AGC     UACCCCGCAUCUCCA 73
chr-1.trna1-Ala-AGC      UACCCCGCAUCUCCA 73
chr-17.trna8-Ala-AGC     UACCCCGCAUCUCCA 73
chr-3.trna13-Ala-AGC     UACCCCGCAUCUCCA 73
chr-3.trna14-Ala-AGC     UACCCCGCAUCUCCA 73
chr-3.trna24-Ala-AGC     UACCCCGCAUCUCCA 73
chr-5.trna3-Ala-AGC      UACCCCGCAUCUCCA 73
chr-13.trna1-Ala-AGC     UACCCCGCAUCUCCA 73
chr-5.trna4-Ala-AGC      UACCCCGCAUCUCCA 73
chr-11.trna26-Ala-AGC    UACCCCGCAUCUCCA 73
chr-5.trna56-Ala-AGC     UACCCCGCAUCUCCA 73
chr-6.trna47-Ala-AGC     UACCCCGCAUCUCCA 73
chr-7.trna18-Ala-AGC     UACCCCGCAUCUCCA 73
chr-7.trna12-Ala-AGC     UACCCCGCAUCUCCA 73
chr-1.trna46-Ala-AGC     UACCCUGCAUCUCCA 73
chr-6.trna46-Ala-TGC     UCCCCUGCAUCUCCA 73
chr-5.trna12-Ala-TGC     UCCCCUGCAUCUCCA 73
chr-18.trna15-Ala-TGC    UCCCCUGCAUCUCCA 73
chr-9.trna44-Ala-TGC     UCCCCUGCAUCUCCA 73
chr-19.trna14-Ala-TGC    UCCCCUGCAUCUCCA 73
chr-13.trna9-Ala-TGC     UCCCCUGCAUCUCCA 73
chr-3.trna33-Ala-TGC     UCCCCUGCAUCUCCA 73
chr-1.trna27-Ala-TGC     UCCCCCGCAUCUCCA 73
chr-16.trna5-Ala-TGC     UCCCCCGCAUCUCCA 73
chr-1.trna66-Ala-TGC     UCCCCCGCAUCUCCA 73
chr-6.trna36-Ala-TGC     UCCCCCGCAUCUCCA 73
chr-9.trna9-Ala-TGC      UCCCCCGCAUCUCCA 73
chr-1.trna67-Ala-TGC     UCCCCCGCAUCUCCA 73
chr-14.trna10-Ala-TGC    UCCCCCGCAUCUCCA 73
chr-2.trna18-Ala-TGC     UCCCCCGCAUCUCCA 73
chr-1.trna78-Ala-CGC     UUCCCCGCAGCUCCA 73
chr-3.trna16-Ala-CGC     UUCCCCGCAGCUCCA 73
chr-12.trna3-Ala-CGC     UUCCCCGCACCUCCA 73
chr-14.trna9-Ala-CGC     UUCCCCGCAUCUCCA 73
chr-15.trna29-Ala-CGC    UUCCCCGCACCUCCA 73
chr-13.trna4-Ala-TGC     UCCCCUGCAUCUCCA 73
chr-5.trna7-Ala-TGC      UCCCCUGCAUUCUAU 73
chr-5.trna9-Ala-TGC      UCCCCUGCAUCUCCA 66
chr-5.trna10-Ala-TGC     UCCCCUGCAUCUCCA 66
chr-5.trna8-Ala-TGC      UCCCCUGCAUCUCCA 67
chr-1.trna80-Ala-AGC     CUCUCAACGAGAGCA 72
chr-1.trna75-Ala-TGC     GUCUCAUCAGGGCCA 70
                         .........70....
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