```
                                (((...((((..((((........)))).(((((.......)))))).....(......((
chr-1.trna8-Ala-AGC             GGG---GAUGUAGCUCAGAUUGUAGAGCGCUCGCUUAGCAUGCGAGAGGUAC------GG 51
chr-1.trna15-Ala-AGC            GGG---GAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUAC------GG 51
chr-1.trna39-Ala-AGC            GGG---GAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUAC------GG 51
chr-1.trna2-Ala-AGC             GGG---GAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUAC------GG 51
chr-2.trna53-Ala-AGC            GGG---GAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUAC------GG 51
chr-9.trna3-Ala-AGC             GGG---GAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUAC------GG 51
chr-3.trna94-Ala-AGC            GGG---GAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUAC------GG 51
chr-5.trna97-Ala-AGC            GGG---GAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAGAGGUAC------GG 51
chr-4.trna39-Ala-TGC            GGG---GAUGUAGCUCAGAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGUAC------GG 51
chr-10.trna66-Ala-AGC           GGG---GAUGUAGCUCAGAUGGUAGAGCGCUCGUUUAGCAUGCGAAAGGUAC------GG 51
chr-2.trna91-Ala-AGC            GGG---GAUGUAGCUCAGAUGGUAGAGCACUCGCUUAGCAUGCGAGAGGUAC------GG 51
chr-6.trna44-Ala-AGC            GGG---GAUGUAGCUCAGAUGGUAGAGCGCUGGCUUAGCAUGCGAGAGGCAU------GG 51
chr-7.trna94-Ala-AGC            GAG---GAUGUAGCUUAGAUGGUAGAGCGCUCGCUUAGCAUGCGAAAGGUAU------GG 51
chr-1.trna42-Ala-TGC            GGG---GAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCAC------GG 51
chr-1.trna206-Ala-TGC           GGG---GAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCAC------GG 51
chr-2.trna55-Ala-TGC            GGG---GAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCAC------GG 51
chr-3.trna76-Ala-TGC            GGG---GAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCAC------GG 51
chr-6.trna109-Ala-TGC           GGG---GAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCAC------GG 51
chr-3.trna90-Ala-TGC            GGG---GAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCAC------GG 51
chr-12.trna51-Ala-TGC           GGG---GAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGCAC------GG 51
chr-3.trna134-Ala-TGC           GGG---GAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGUAC------AG 51
chr-6.trna125-Ala-TGC           GGG---GAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAGAGGUAC------AG 51
chr-1.trna207-Ala-CGC           GGG---GGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCAC------GG 51
chr-3.trna97-Ala-CGC            GGG---GGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCAC------GG 51
chr-12.trna8-Ala-CGC            GGG---GGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGCAC------GG 51
chr-8.trna78-Ala-CGC            GGG---GGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAGAGGUAC------GG 51
chr-1.trna205-Ala-TGC           GGG---GAUGUAGCUCAAAUGGUAGAGCCCUCGCUUUGCAUGCGAGAGGCAC------GG 51
chr-4.trna43-Ala-TGC            GGG---GAUGUAUCUCAAAUGGUAGAGCACUCGCUUUGCAUGCGAGAGACAC------GG 51
chr-9.trna60-Ala-AGC            GGC---GAUGUAGCCCAGAUUGUAGAGCGCUCGCUUAGCAUGCGAGAGGUAC------GG 51
chr-3.trna133-Ala-TGC           GGACGGGAUCUAGCUCAAAUGGUAGAGCACUCGCUUUGCAUGCGAGAGGUAC------AG 54
chr-7.trna153-Ala-AGC           GGG---GAUGUAGCUCAGUUGGUAGAGCGCUUGCUUAGCAUGCGAGAGGUAC------GG 51
chr-8.trna33-Ala-AGC            GGG---GAUGUAGCUCAGUUGGUAGAGCACUUGCUUAGCAUGCGAGAGCUAC------GG 51
chr-2.trna25-Ala-TGC            GGG---AAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGUGAGAGGCACGGGGUUGG 57
chr-5.trna92-Ala-GGC            GUC---GUUGUAGUAUAGUAGUAAGUAUUCCGCCUGGCACGCGGGUGACCC-------G 50
chr-2.trna24-Ala-GGC            AGC---GAUAUAACUCAG-CGGUAGAGUGUCACUUUGGCGUGGUGGAAGUCA------UC 50
                                .........10.........20.........30.........40.........50.........

                                ((.......)))))))))))).
chr-1.trna8-Ala-AGC             GGAUCGAUACCCCGCAUCUCCA 73
chr-1.trna15-Ala-AGC            GGAUCGAUACCCCGCAUCUCCA 73
chr-1.trna39-Ala-AGC            GGAUCGAUACCCCGCAUCUCCA 73
chr-1.trna2-Ala-AGC             GGAUCGAUACCCCGCAUCUCCA 73
chr-2.trna53-Ala-AGC            GGAUCGAUACCCCGCAUCUCCA 73
chr-9.trna3-Ala-AGC             GGAUCGAUACCCCGCAUCUCCA 73
chr-3.trna94-Ala-AGC            GGAUCGAUACCCCGCAUCUCCA 73
chr-5.trna97-Ala-AGC            GGAUCGAUACCCCGCAUCUCCA 73
chr-4.trna39-Ala-TGC            GGAUCGAUACCCCGCAUCUCCA 73
chr-10.trna66-Ala-AGC           GGAUCGAUACCCCGCAUCUCCA 73
chr-2.trna91-Ala-AGC            GGCUCGACACCCCGCAUCUCCA 73
chr-6.trna44-Ala-AGC            GGAUCGAUACCCCGCAUUUCCA 73
chr-7.trna94-Ala-AGC            GGAUCGAUACCCCGCAUCUCCA 73
chr-1.trna42-Ala-TGC            GGUUCGAUCCCCCGCAUCUCCA 73
chr-1.trna206-Ala-TGC           GGUUCGAUCCCCCGCAUCUCCA 73
chr-2.trna55-Ala-TGC            GGUUCGAUCCCCCGCAUCUCCA 73
chr-3.trna76-Ala-TGC            GGUUCGAUCCCCCGCAUCUCCA 73
chr-6.trna109-Ala-TGC           GGUUCGAUCCCCCGCAUCUCCA 73
chr-3.trna90-Ala-TGC            GGUUCGAUCCCCCGCAUCUCCA 73
chr-12.trna51-Ala-TGC           GGUUCGAUCCCCCGCAUCUCCA 73
chr-3.trna134-Ala-TGC           GGUUCGAUCCCCCUGCAUCUCCA 73
chr-6.trna125-Ala-TGC           GGUUCGAUACCCCUGCAUCUCCA 73
chr-1.trna207-Ala-CGC           GGUUCGAUUCCCCGCACCUCCA 73
chr-3.trna97-Ala-CGC            GGUUCGAUUCCCCGCACCUCCA 73
chr-12.trna8-Ala-CGC            GGUUCGAUUCCCCGCACCUCCA 73
chr-8.trna78-Ala-CGC            GGUUCGAUUCCCCGCACCUCCA 73
chr-1.trna205-Ala-TGC           GGUUCGAUCCCCCGCAUCUCCC 73
chr-4.trna43-Ala-TGC            GGUUCAAUCCCCCGCAUCUCCA 73
chr-9.trna60-Ala-AGC            GGAUCGAUACCCCGCAUCUCCA 73
chr-3.trna133-Ala-TGC           GGUUCGGUCCCCUGCACCUCCA 76
chr-7.trna153-Ala-AGC           GGAUAGA----CUGCAUCUCCA 69
chr-8.trna33-Ala-AGC            GGAUUGA----CUGCAUCUUCA 69
chr-2.trna25-Ala-TGC            GGUUCGAUCCCCCGCAUCUCCA 79
chr-5.trna92-Ala-GGC            CGUUCGAUCGUCAACAACGGUG 72
chr-2.trna24-Ala-GGC            AGUUCGAGCCUAAUUAUCCCUA 72
                                .........70.........80.
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