```
                        (((((((..((((........)))).(((((.......)))))).......(((((.....
chr-2.trna36-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACCGGGAUCGA 58
chr-2.trna8-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACGGGGAUCGA 58
chr-2.trna37-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACGGGGAUCGA 58
chr-2.trna38-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACGGGGAUCGA 58
chr-8.trna65-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACGGGGAUCGA 58
chr-8.trna61-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACGGGGAUCGA 58
chr-2.trna39-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACGGGGAUCGA 58
chr-2.trna40-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACGGGGAUCGA 58
chr-2.trna41-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACGGGGAUCGA 58
chr-2.trna80-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACGGGGAUCGA 58
chr-1.trna9-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACGGGGAUCGA 58
chr-7.trna43-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACGGGGAUCGA 58
chr-3.trna38-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACGGGGAUCGA 58
chr-3.trna53-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACGGGGAUCGA 58
chr-12.trna38-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACGGGGAUCGA 58
chr-12.trna39-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACAGGGAUCGA 58
chr-10.trna6-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUACGGGGAUCGA 58
chr-6.trna39-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUAUGGGGAUCGA 58
chr-7.trna34-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGCUCGCUUAGCAUGCGAG--AGGUAUGGGGAUCGA 58
chr-9.trna22-Ala-AGC    GGAGAUGUAGCUCAGAUGGUAGAGCGCUCACUUAGCAUGCAAG--AGGUACGGGGAUCAA 58
chr-8.trna6-Ala-TGC     GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGCACGGGGUUCGA 58
chr-2.trna61-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGCACGGGGUUCGA 58
chr-2.trna62-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGCACGGGGUUCGA 58
chr-1.trna12-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGUACAGGGUUCGA 58
chr-12.trna12-Ala-TGC   GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGUACAGGGUUCGA 58
chr-3.trna28-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGUACAGGGUUCGA 58
chr-3.trna29-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGUACAGGGUUCGA 58
chr-5.trna1-Ala-TGC     GGGGAUGUAGCUCAAACGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGCACGGGGUUCGA 58
chr-5.trna2-Ala-TGC     GGGGAUGUAGCUCAAACGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGCACGGGGUUCGA 58
chr-6.trna57-Ala-TGC    GGGGAUGUAGCUCAAACGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGCACGGGGUUCGA 58
chr-11.trna45-Ala-TGC   GGGGAUGUAGCUCAAACGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGCACGGGGUUCGA 58
chr-2.trna83-Ala-CGC    GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAG--AGGCACGGGGUUCGA 58
chr-6.trna21-Ala-CGC    GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAG--AGGCACGGGGUUCGA 58
chr-12.trna30-Ala-CGC   GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAG--AGGCACGGGGUUCGA 58
chr-12.trna54-Ala-CGC   GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAG--AGGCACGGGGUUCGA 58
chr-9.trna34-Ala-CGC    GGGGGUGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAG--AGGCACGGGGUUCGA 58
chr-10.trna38-Ala-CGC   GGGGACGUAGCUCAUAUGGUAGAGCGCUCGCUUCGCAUGCGAG--AGGCACGGGGUUCGA 58
chr-7.trna47-Ala-TGC    GGGGAUGUAGCUCACAUGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGUACGGGGUUCGA 58
chr-7.trna49-Ala-TGC    GGGGAUGUAGCUCACAUGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGUACGGGGUUCGA 58
chr-7.trna50-Ala-TGC    GGGGAUGUAGCUCACAUGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGUACGGGGUUCGA 58
chr-12.trna33-Ala-TGC   GGGGAUGUAGCUCACAUGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGUACGGGGUUCGA 58
chr-2.trna60-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGCGCUCGCUUUGCAUGCGAG--AGGCACGGG-UUCGA 57
chr-9.trna27-Ala-AGC    GGGGAUGUAACUCAGAUGGUAGACCGCUCGCUUAGCAUGCGAGAGAGGUACGGGGAUCGA 60
chr-7.trna48-Ala-TGC    AGGAAUGUAGCUCGAAUGAUAGAGCGCUUUGCAUGUGAG--AGGUACAGGGUUCGA 58
chr-2.trna72-Ala-AGC    GGGGAUGUAGCUCAAAUGGUAGAGCAUGUGGUCCA-GCCUACACAAGGAACGAGGAUCGA 59
chr-2.trna73-Ala-AGC    GGGGAUGUAGCUCAAAUGGUAGAGCAUGUGGUCCA-GCUUACACAAGGAACGAGGAUCGA 59
                        .........10........20........30........40........50.........

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chr-2.trna36-Ala-AGC    UACCCCGCAUCUCCA 73
chr-2.trna8-Ala-AGC     UACCCCGCAUCUCCA 73
chr-2.trna37-Ala-AGC    UACCCCGCAUCUCCA 73
chr-2.trna38-Ala-AGC    UACCCCGCAUCUCCA 73
chr-8.trna65-Ala-AGC    UACCCCGCAUCUCCA 73
chr-8.trna61-Ala-AGC    UACCCCGCAUCUCCA 73
chr-2.trna39-Ala-AGC    UACCCCGCAUCUCCA 73
chr-2.trna40-Ala-AGC    UACCCCGCAUCUCCA 73
chr-2.trna41-Ala-AGC    UACCCCGCAUCUCCA 73
chr-2.trna80-Ala-AGC    UACCCCGCAUCUCCA 73
chr-1.trna9-Ala-AGC     UACCCCGCAUCUCCA 73
chr-7.trna43-Ala-AGC    UACCCCGCAUCUCCA 73
chr-3.trna38-Ala-AGC    UACCCCGCAUCUCCA 73
chr-3.trna53-Ala-AGC    UACCCCGCAUCUCCA 73
chr-12.trna38-Ala-AGC   UACCCCGCAUCUCCA 73
chr-12.trna39-Ala-AGC   UACCCUGCAUCUCCA 73
chr-10.trna6-Ala-AGC    UGCCCCGCAUCUCCA 73
chr-6.trna39-Ala-AGC    UACCCCACUUCUCCA 73
chr-7.trna34-Ala-AGC    UACCCCACUUCUCCA 73
chr-9.trna22-Ala-AGC    UACCCCGCAUCUCCA 73
chr-8.trna6-Ala-TGC     UCCCCCGCAUCUCCA 73
chr-2.trna61-Ala-TGC    UCCCCCGCAUCUCCA 73
chr-2.trna62-Ala-TGC    UCCCCCGCAUCUCCA 73
chr-1.trna12-Ala-TGC    UCCCCUGCAUCUCCA 73
chr-12.trna12-Ala-TGC   UCCCCUGCAUCUCCA 73
chr-3.trna28-Ala-TGC    UCCCCUGCAUCUCCA 73
chr-3.trna29-Ala-TGC    UCCCCUGCAUCUCCA 73
chr-5.trna1-Ala-TGC     UACCCCGCAUCUCCA 73
chr-5.trna2-Ala-TGC     UACCCCGCAUCUCCA 73
chr-6.trna57-Ala-TGC    UACCCCGCAUCUCCA 73
chr-11.trna45-Ala-TGC   UACCCCGCAUCUCCA 73
chr-2.trna83-Ala-CGC    UUCCCCGCACCUCCA 73
chr-6.trna21-Ala-CGC    UUCCCCGCACCUCCA 73
chr-12.trna30-Ala-CGC   UUCCCCGCACCUCCA 73
chr-12.trna54-Ala-CGC   UUCCCCGCACCUCCA 73
chr-9.trna34-Ala-CGC    UUCCCCGCACCUCCA 73
chr-10.trna38-Ala-CGC   UUCCCCGCGUCUCCA 73
chr-7.trna47-Ala-TGC    UACCCCGCAUCUCCA 73
chr-7.trna49-Ala-TGC    UACCCCGCAUCUCCA 73
chr-7.trna50-Ala-TGC    UACCCCGCAUCUCCA 73
chr-12.trna33-Ala-TGC   UACCCCGCAUCUCCA 73
chr-2.trna60-Ala-TGC    UCCCCCGCAUCUCCA 72
chr-9.trna27-Ala-AGC    UACCCCGCAUCUCCA 75
chr-7.trna48-Ala-TGC    UACCCCGCAUCUCCA 73
chr-2.trna72-Ala-AGC    UACCUUGCAUCUCCA 74
chr-2.trna73-Ala-AGC    UACCUUGCAUCUCCA 74
                        .........70....
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