```
                                (((((((..((((........)))).(((((.......)))))).....(((((.......
chr-C2.trna25-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C2.trna144-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C3.trna1-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C9.trna192-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C9.trna118-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C4.trna94-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C9.trna176-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C5.trna1-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C8.trna19-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C8.trna5-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C5.trna10-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C7.trna123-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C7.trna122-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C7.trna116-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C7.trna73-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C9.trna134-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C7.trna55-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C9.trna174-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C9.trna13-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C7.trna37-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C1.trna17-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGCACGGGGA----UC 56
chr-C2.trna100-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGCACGGGGA----UC 56
chr-C2.trna1-Ala-AGC     GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C8.trna89-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACGGGGA----UC 56
chr-C2.trna89-Ala-AGC    GGGCAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGCACGGGGA----UC 56
chr-C4.trna35-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACCGGGA----UC 56
chr-C7.trna45-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUACCGGGA----UC 56
chr-C9.trna152-Ala-AGC   GGGGAUGUAGCUCAGAUGAUAGAGCGGUCGCUUAGCAUGCGAGAGGUACAGAGA----UU 56
chr-C2.trna70-Ala-AGC    GGGGAUGUAGCUCAGAUGGUAGAGCGGUCGGUUAGCAUGCGAGAGGUACAGGGA----UC 56
chr-C3.trna179-Ala-AGC   GGGGUUGUAGCUCAGAUGGUAGAGCGGUCGCUUAGCAUGCGAGAGGUAUGGGGA----UC 56
chr-C3.trna45-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACGGGGU----UC 56
chr-C3.trna139-Ala-TGC   GGGGAUGUAGCUCAAAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACGGGGU----UC 56
chr-C4.trna150-Ala-TGC   GGGGAUGUAGCUCAAAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACGGGGU----UC 56
chr-C5.trna101-Ala-TGC   GGGGAUGUAGCUCAAAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACGGGGU----UC 56
chr-C8.trna28-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACGGGGU----UC 56
chr-C8.trna101-Ala-TGC   GGGGAUGUAGCUCAAAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACGGGGU----UC 56
chr-C8.trna115-Ala-TGC   GGGGAUGUAGCUCAAAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACGGGGU----UC 56
chr-C5.trna88-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACGGGGU----UC 56
chr-C8.trna76-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGUACAGGGU----UC 56
chr-C9.trna173-Ala-TGC   GGGGAUGUAGCUCAAAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACGGGGU----UC 56
chr-C8.trna100-Ala-TGC   GGGGAUGUAGCUCAAAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACGGGGU----UC 56
chr-C6.trna26-Ala-TGC    GGGGAUGUAGCUCAUAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACAGGGU----UC 56
chr-C8.trna54-Ala-TGC    GGGGAUGUAGCUCAUAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACAGGGU----UC 56
chr-C8.trna109-Ala-TGC   GGGGAUGUAGCUCAUAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACAGGGU----UC 56
chr-C4.trna102-Ala-TGC   GGGGAUGUAGCUCAUAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACAGGGU----UC 56
chr-C1.trna8-Ala-TGC     GGGGAUGUAGCUCAUAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACAGGGU----UC 56
chr-C1.trna15-Ala-CGC    GGGGGUGUAGCUCAUAUGGUAGAGCGGUCGCUUCGCAUGCGAGAGGCACGGGGU----UC 56
chr-C4.trna68-Ala-CGC    GGGGGUGUAGCUCAUAUGGUAGAGCGGUCGCUUCGCAUGCGAGAGGCACGGGGU----UC 56
chr-C9.trna119-Ala-CGC   GGGGGUGUAGCUCAUAUGGUAGAGCGGUCGCUUCGCAUGCGAGAGGCACGGGGU----UC 56
chr-C6.trna25-Ala-CGC    GGGGAUGUAGCUCAUAUGGUAGAGCGGUCGCUUCGCAUGCGAGAGGCACGGGGU----UC 56
chr-C9.trna18-Ala-CGC    GGGGAUGUAGCUCAUAUGGUAGAGCGGUCGCUUCGCAUGCGAGAGGCACGGGGU----UC 56
chr-C7.trna71-Ala-CGC    GGGGGUGUAGCUCAUAUGGUAGAGCGGUCGCUUCGCAUGCGAGAGGCACGGGGU----UC 56
chr-C8.trna53-Ala-CGC    GGGGGUGUAGCUCAUAUGGUAGAGCGGUCGCUUCGCAUGCGAGAGGCACGGGGU----UC 56
chr-C8.trna112-Ala-CGC   GGGGGUGUAGCUCAUAUGGUAGAGCGGUCGCUUCGCAUGCGAGAGGCACGGGGU----UC 56
chr-C3.trna132-Ala-TGC   GGGGGUGUAGCUCAUAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACGGGGU----UC 56
chr-C9.trna181-Ala-TGC   GGGGGUGUAGCUCAUAUGGUAGAGCGGUCGCUUUGCAUGCGAGAGGCACGGUGU----UC 56
chr-C7.trna53-Ala-CGC    GGGGAUGUAGCUCAUAUGGUAGAGCGGUCGCUUCGCAUGCGAGAGGCACCGGGU----UC 56
chr-C7.trna26-Ala-TGC    GGGGAUGUAGCUCAAAUGGUAGAGCGGUCUUGCUUUGCAUGCGAGAGGCACGGACU----UC 56
chr-C2.trna21-Ala-TGC    GGGGAUGUAGCUCAAAUUGCAGAGCGGUCGCUUUGCAUGCGAGAGGCAAGGGGU----UC 56
chr-C4.trna96-Ala-TGC    GGGGAUGUAGCUCAUAUGGUAGAUCGGUCGCUUUGCAUGCGAGAGCCACAGGGU----UC 56
chr-C9.trna86-Ala-AGC    GGGGAUGUAGCU-AGAUGGUAGAGCGGUCGCUGAGCCUGCGGGAGAUUCUGGGA----UC 55
chr-C2.trna99-Ala-TGC    -GGGAUGUAGCUCAAAUGGUAGAGCGGUCGCUUUGCAUGCGUGAGGCACGGGGUUCGAUC 59
chr-C7.trna129-Ala-AGC   GGGGAUGUAGCUCAGAUGGUAGAGUGGUCGCUUAGCAUGCGUGAGGUACGGGGA----UA 56
                         .........10........20........30........40........50.........
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                         ....)))))))))))).
chr-C2.trna25-Ala-AGC    GAUACCCCGCAUCUCCA 73
chr-C2.trna144-Ala-AGC   GAUACCCCGCAUCUCCA 73
chr-C3.trna1-Ala-AGC     GAUACCCCGCAUCUCCA 73
chr-C9.trna192-Ala-AGC   GAUACCCCGCAUCUCCA 73
chr-C9.trna118-Ala-AGC   GAUACCCCGCAUCUCCA 73
chr-C4.trna94-Ala-AGC    GAUACCCCGCAUCUCCA 73
chr-C9.trna176-Ala-AGC   GAUACCCCGCAUCUCCA 73
chr-C5.trna1-Ala-AGC     GAUACCCCGCAUCUCCA 73
chr-C8.trna19-Ala-AGC    GAUACCCCGCAUCUCCA 73
chr-C8.trna5-Ala-AGC     GAUACCCCGCAUCUCCA 73
chr-C5.trna10-Ala-AGC    GAUACCCCGCAUCUCCA 73
chr-C7.trna123-Ala-AGC   GAUACCCCGCAUCUCCA 73
chr-C7.trna122-Ala-AGC   GAUACCCCGCAUCUCCA 73
chr-C7.trna116-Ala-AGC   GAUACCCCGCAUCUCCA 73
chr-C7.trna73-Ala-AGC    GAUACCCCGCAUCUCCA 73
chr-C9.trna134-Ala-AGC   GAUACCCCGCAUCUCCA 73
chr-C7.trna55-Ala-AGC    GAUACCCCGCAUCUCCA 73
chr-C9.trna174-Ala-AGC   GAUACCCCGCAUCUCCA 73
chr-C9.trna13-Ala-AGC    GAUACCCCGCAUCUCCA 73
chr-C7.trna37-Ala-AGC    GAUACCCCGCAUCUCCA 73
chr-C1.trna17-Ala-AGC    GAUACCCCGCAUUUCCA 73
chr-C2.trna100-Ala-AGC   GAUACCCCGCAUUUCCA 73
chr-C2.trna1-Ala-AGC     GAUAUCCCGCAUCUCCA 73
chr-C8.trna89-Ala-AGC    GAUAUCCCGCAUCUCCA 73
chr-C2.trna89-Ala-AGC    GAUACCCCGCUUGUCCA 73
chr-C4.trna35-Ala-AGC    GAUAGCCCGCAUCUCCA 73
chr-C7.trna45-Ala-AGC    GAUAGCCCGCAUCUCCA 73
chr-C9.trna152-Ala-AGC   GAUACCCCGCAUCUCCA 73
chr-C2.trna70-Ala-AGC    GAUAUCCCGCAUCUCCA 73
chr-C3.trna179-Ala-AGC   GAUAGCCCGCAUCUCCU 73
chr-C3.trna45-Ala-TGC    GAUACCCCGCAUCUCCA 73
chr-C3.trna139-Ala-TGC   GAUACCCCGCAUCUCCA 73
chr-C4.trna150-Ala-TGC   GAUACCCCGCAUCUCCA 73
chr-C5.trna101-Ala-TGC   GAUACCCCGCAUCUCCA 73
chr-C8.trna28-Ala-TGC    GAUACCCCGCAUCUCCA 73
chr-C8.trna101-Ala-TGC   GAUACCCCGCAUCUCCA 73
chr-C8.trna115-Ala-TGC   GAUACCCCGCAUCUCCA 73
chr-C5.trna88-Ala-TGC    GAUACCCCGCAUUUCCA 73
chr-C8.trna76-Ala-TGC    GAUACCCUGCAUCUCCA 73
chr-C9.trna173-Ala-TGC   GAUCCCCCGCAUCUCCA 73
chr-C8.trna100-Ala-TGC   GAUUCCCCGCAUCUCCA 73
chr-C6.trna26-Ala-TGC    GAUUCCCUGCAUCUCCA 73
chr-C8.trna54-Ala-TGC    GAUUCCCUGCAUCUCCA 73
chr-C8.trna109-Ala-TGC   GAUUCCCUGCAUCUCCA 73
chr-C4.trna102-Ala-TGC   GAUUCCCUGCAUCUCCA 73
chr-C1.trna8-Ala-TGC     GAUUCCCUGCAUUUCCA 73
chr-C1.trna15-Ala-CGC    GAUUCCCCGCACCUCCA 73
chr-C4.trna68-Ala-CGC    GAUUCCCCGCACCUCCA 73
chr-C9.trna119-Ala-CGC   GAUUCCCCGCACCUCCA 73
chr-C6.trna25-Ala-CGC    GAUUCCCCGCAUCUCCA 73
chr-C9.trna18-Ala-CGC    GAUUCCCCGCAUCUCCA 73
chr-C7.trna71-Ala-CGC    GAUUCCCCGCACCUCCA 73
chr-C8.trna53-Ala-CGC    GAUUCCCCGCAUCUCCA 73
chr-C8.trna112-Ala-CGC   GAUUCCCCGCAUCUCCA 73
chr-C3.trna132-Ala-TGC   GAU-CCCCGCACCUCCA 72
chr-C9.trna181-Ala-TGC   GAU-UAUCGCACCUCCA 72
chr-C7.trna53-Ala-CGC    GAUUCCCCGCUUCUCCA 73
chr-C7.trna26-Ala-TGC    GAUUCCCCACAUUUCCA 73
chr-C2.trna21-Ala-TGC    GAUGCCCCGCAUCUCCA 73
chr-C4.trna96-Ala-TGC    GAUUCCAUGAAUCUCCA 73
chr-C9.trna86-Ala-AGC    GAUACCCUGCUUCUCCA 72
chr-C2.trna99-Ala-TGC    GAUCCCCCGCAUCUCCA 76
chr-C7.trna129-Ala-AGC   GAUG--CCGUAUCUCCA 71
                         .........70......
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