```
                                .((((.((..((((........)))).(((((.......)))))).......(((((....
chr-A10.trna20-Phe-GAA     GGUCGGGAUAGCUCAGCUGGUAGAGCAGAGGACUGAAAAUCCUCGAAAUGAAAGGGU-UG 59
chr-B01.trna76-Phe-GAA     -GUGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGUGUGU-UC 56
chr-A01.trna54-Phe-GAA     -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGUGUGU-UC 56
chr-B04.trna7-Phe-GAA      -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGUGUGU-UC 56
chr-A01.trna53-Phe-GAA     -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-A01.trna105-Phe-GAA    -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-A03.trna87-Phe-GAA     -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-A04.trna37-Phe-GAA     -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-B06.trna154-Phe-GAA    -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-B06.trna77-Phe-GAA     -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-B10.trna93-Phe-GAA     -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-A05.trna60-Phe-GAA     -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-A06.trna1-Phe-GAA      -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-B09.trna9-Phe-GAA      -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-A10.trna31-Phe-GAA     -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-B01.trna7-Phe-GAA      -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-B04.trna73-Phe-GAA     -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-B08.trna118-Phe-GAA    -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-B07.trna52-Phe-GAA     -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-B02.trna105-Phe-GAA    -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-B06.trna155-Phe-GAA    -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-B02.trna109-Phe-GAA    -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGGUCUGA--AGGUCGCGUGU-UC 56
chr-A01.trna55-Phe-GAA     -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUUGCGUGU-UC 56
chr-B01.trna77-Phe-GAA     -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUUGCGUGU-UC 56
chr-A08.trna46-Phe-GAA     -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGCCGCGUGU-UC 56
chr-B03.trna31-Phe-GAA     -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUUUGA--AAGUCGCGUGU-UC 56
chr-A01.trna42-Phe-GAA     -GCGGUGAUAGCUUAGUUGGGAGAGCGUCAGAUUGAAGAUCUGA--AGGUUGCAUGU-UC 56
chr-A01.trna43-Phe-GAA     -GCGGUGAUAGCUUAGUUGGGAGAGCGUCAGAUUGAAGAUCUGA--AGGUUGCAUGU-UC 56
chr-A06.trna27-Phe-GAA     -GCGGUGAUAGCUUAGUUGGGAGAGCGUCAGAUUGAAGAUCUGA--AGGUUGCAUGU-UC 56
chr-B03.trna41-Phe-GAA     -GCGGUGAUAGCUUAGUUGGGAGAGCGUCAGAUUGAAGAUCUGA--AGGUUGCAUGU-UC 56
chr-B04.trna162-Phe-GAA    -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-A01.trna51-Phe-GAA     -GCAGGGAUAGCUCAGUUGGGAGAACGUCAGACUGAAGAUCUGA--AGUUCGCGUGU-UC 56
chr-A08.trna45-Phe-GAA     -GCGGGGAUAGUUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-U- 55
chr-B08.trna119-Phe-GAA    -GCGAGGAUAGCUCAGUUGGGAGAGCUUCAAACUGAAGAUCUGA--AGGUUGCGUGU-UC 56
chr-A01.trna104-Phe-GAA    -GUCGGGAUAGCUCAGCUGGUAGAGCAGAGGACUGAAAAUCCUC--GUGUCACCAGU-UC 56
chr-A06.trna41-Phe-GAA     -GUCGGGAUAGCUCAGCUGGUAGAGCAGAGGACUGAAAAUCCUC--GUGUCACCAGU-UC 56
chr-B06.trna5-Phe-GAA      -GUCGGGAUAGCUCAGCUGGUAGAGCAGAGGACUGAAAAUCCUC--GUGUCACCAGU-UC 56
chr-B07.trna95-Phe-GAA     -GUCGGGAUAGCUCAGCUGGUAGAGCAGAGGACUGAAAAUCCUC--GUGUCACCAGU-UC 56
chr-B10.trna67-Phe-GAA     -GUCGGGAUAGCUCAGCUGGUAGAGCAGAGGACUGAAAAUCCUC--GUGUCACCAGU-UC 56
chr-B10.trna65-Phe-GAA     -GUCGGGAUAGCUCAGCUGGUAGAGCAGAGGACUGAAAAUCCUC--GUGUCACCAGU-UC 56
chr-B07.trna116-Phe-GAA    -GUUAGGAUAGCUCAGCUGGUAGAGCAGAGGACUGAAAAUUCUC--GUGUCACCAGU-UC 56
chr-B02.trna30-Phe-GAA     -GUCGGGAUAGCUCAGCUGGUAGAGCAGAGGACUGAAAAUCCUC--AUGUCACCAGU-UC 56
chr-B01.trna10-Phe-GAA     -GUCGGGAUAGCUCAGCUGGUAGAGCAGAGGACUGAAAAUCCGC--GUGUCACCAGU-UC 56
chr-A01.trna20-Phe-GAA     -ACGGGUAUAGCUCAGCUGGUAGAGCAGAGGACUGAAAAUCCUC--GUGUCACCAGU-UC 56
chr-B07.trna51-Phe-GAA     -GCGGGGAUAGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 56
chr-A06.trna36-Phe-GAA     -GGAU----AGCUCAGUUGGGAGAGCGUCAGACUGAAGAUCUGA--AGGUCGCGUGU-UC 52
chr-B01.trna71-Phe-GAA     GUCAGAAU-AGCUCAGCCGGUAGAGCAGAAGACUGAAAAUCCUC--GUGUCACCAGU-UC 56
chr-A02.trna37-Phe-GAA     GUCAGAAU-AGCUCAGCCGGUAGAGCAGAAGACUGAAAAUCCUC--GUGUCACCAGUGUC 57
chr-B07.trna37-Phe-GAA     GGAUA-----GCUCAGCUGGUAGAGCAGAGGACUGAAAAUCCUC--GUGUCACCAGU-UC 52
chr-B08.trna126-Phe-GAA    ---GUCUAUAGCUCAG-UGGUAGAACAUUUGACUGAAAAUCAAG--AGAUCCCUGA---- 50
chr-B04.trna146-Phe-GAA    ---GUCUAUAGCUCAG-UGGUAGAACAUUUGACUGAAAAUCAAG--AGAUCCCUGA---- 50
chr-B05.trna51-Phe-GAA     ---GUCUAUAGCUCAG-UGGUAGAACAUUUGACUGAAAAUCAAG--AGAUCCCUGA---- 50
chr-B05.trna50-Phe-GAA     ---GUCUAUAGCUCAG-UGGUAGAACAUUUGACUGAAAAUCAAG--AGAUCCCUGA---- 50
chr-B05.trna97-Phe-GAA     ---GUCUAUAGCUCAG-UGGUAGAACAUUUGACUGAAAAUCAAG--AGAUCCCUGA---- 50
                           .........10........20........30........40........50.........
                           ..........................................................
                           ......))))).......)).)))))..
chr-A10.trna20-Phe-GAA     GAU--UCGCUU----------UGACCG 74
chr-B01.trna76-Phe-GAA     GAU--CCACGC-------UCACCGC-A 73
chr-A01.trna54-Phe-GAA     GAU--CCACGC-------UCACCGC-A 73
chr-B04.trna7-Phe-GAA      GAU--CCACGC-------UCACCGC-A 73
chr-A01.trna53-Phe-GAA     GAU--CCACGC-------UCACCGC-A 73
chr-A01.trna105-Phe-GAA    GAU--CCACGC-------UCACCGC-A 73
chr-A03.trna87-Phe-GAA     GAU--CCACGC-------UCACCGC-A 73
chr-A04.trna37-Phe-GAA     GAU--CCACGC-------UCACCGC-A 73
chr-B06.trna154-Phe-GAA    GAU--CCACGC-------UCACCGC-A 73
chr-B06.trna77-Phe-GAA     GAU--CCACGC-------UCACCGC-A 73
chr-B10.trna93-Phe-GAA     GAU--CCACGC-------UCACCGC-A 73
chr-A05.trna60-Phe-GAA     GAU--CCACGC-------UCACCGC-A 73
chr-A06.trna1-Phe-GAA      GAU--CCACGC-------UCACCGC-A 73
chr-B09.trna9-Phe-GAA      GAU--CCACGC-------UCACCGC-A 73
chr-A10.trna31-Phe-GAA     GAU--CCACGC-------UCACCGC-A 73
chr-B01.trna7-Phe-GAA      GAU--CCACGC-------UCACCGC-A 73
chr-B04.trna73-Phe-GAA     GAU--CCACGC-------UCACCGC-A 73
chr-B08.trna118-Phe-GAA    GAU--CCACGC-------UCACCGC-A 73
chr-B07.trna52-Phe-GAA     GAU--CCACGC-------UCACCGC-A 73
chr-B02.trna105-Phe-GAA    GAU--CCACGC-------UCACCGC-A 73
chr-B06.trna155-Phe-GAA    GAU--CCACGC-------UCACUGC-A 73
chr-B02.trna109-Phe-GAA    GAU--CCACGC-------UCACCGC-A 73
chr-A01.trna55-Phe-GAA     GAU--UCACGC-------UCACCGC-A 73
chr-B01.trna77-Phe-GAA     GAU--UCACGC-------UCACCGC-A 73
chr-A08.trna46-Phe-GAA     AAU--CCACGC-------UCACCGC-A 73
chr-B03.trna31-Phe-GAA     GAU--CCACGC-------UCACCGC-A 73
chr-A01.trna42-Phe-GAA     AAU--CCAUGC-------UCACCGC-A 73
chr-A01.trna43-Phe-GAA     AAU--CCAUGC-------UCACCGC-A 73
chr-A06.trna27-Phe-GAA     AAU--CCAUGC-------UCACCGC-A 73
chr-B03.trna41-Phe-GAA     AAU--CCAUGC-------UCACCGC-A 73
chr-B04.trna162-Phe-GAA    GAU--CAACGC-------UCACCGC-A 73
chr-A01.trna51-Phe-GAA     GAU--CCACGC-------UCACCGC-A 73
chr-A08.trna45-Phe-GAA     GAU--CCACGC-------UCACCGC-A 72
chr-B08.trna119-Phe-GAA    GAU--CCACAC-------UCACUGC-A 73
chr-A01.trna104-Phe-GAA    AAA--UCUGGU-------UCCUGGC-A 73
chr-A06.trna41-Phe-GAA     AAA--UCUGGU-------UCCUGGC-A 73
chr-B06.trna5-Phe-GAA      AAA--UCUGGU-------UCCUGGC-A 73
chr-B07.trna95-Phe-GAA     AAA--UCUGGU-------UCCUGGC-A 73
chr-B10.trna67-Phe-GAA     AAA--UCUGGU-------UCCUGGC-A 73
chr-B10.trna65-Phe-GAA     AAA--UCUGGU-------UCCUGGC-A 73
chr-B07.trna116-Phe-GAA    AAA--UCUGGU-------UCCUGGC-A 73
chr-B02.trna30-Phe-GAA     AAA--UCUGGU-------UCCUGGC-A 73
chr-B01.trna10-Phe-GAA     AAA--UCUGGU-------UCCUGGC-A 73
chr-A01.trna20-Phe-GAA     AAA--UCUGGU-------UCCUGGC-A 73
chr-B07.trna51-Phe-GAA     GAU--CCACACAAAUAUUUUUCUGUCA 81
chr-A06.trna36-Phe-GAA     GAU--CCACGC-------UUUAUAACA 70
chr-B01.trna71-Phe-GAA     AAA--UCUGGUUAUAUAAAUAAUGACU 81
chr-A02.trna37-Phe-GAA     AAAAGUCUGGUUCCUUA-------ACA 77
chr-B07.trna37-Phe-GAA     AAA--UCUG----------UAUAUGCU 67
chr-B08.trna126-Phe-GAA    GAUACCUCAGG-------GG-AUAC-A 68
chr-B04.trna146-Phe-GAA    GAUACCUCAGG-------GG-AUAC-A 68
chr-B05.trna51-Phe-GAA     GAUACCUCAGG-------GG-AUAC-A 68
chr-B05.trna50-Phe-GAA     GAUACCUCAGG-------GG-AUAC-A 68
chr-B05.trna97-Phe-GAA     GAUGCCUCAGG-------GG-AUAC-A 68
                           .........70........80......
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