```
                                 (((((((..((((.........)))).((((((....)).)))...).....(((((...
chr-07.trna9-Ile-TAT     GGGGUGGUGGCGCAGUUGGCUAGCGCGUAGGUCUUAUAAUCUU---GAGGUUGAGAGUUU 57
chr-01.trna53-Ile-TAT    GGUCUUGUAACUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCCG---AAAGUCGUGGGUUC 57
chr-01.trna54-Ile-TAT    GGUCUUGUAACUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCCG---AAAGUCGUGGGUUC 57
chr-06.trna22-Ile-TAT    GGUCUUGUAACUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCCG---AAAGUCGUGGGUUC 57
chr-04.trna31-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-01.trna35-Ile-TAT    GGUCUCGUAGCUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-14.trna7-Ile-TAT     GGUCUUGUAGCUCAGUUGGUUAGAGCGCUGGUCUUAUGAGCCG---GAGGUCGCGAGUUC 57
chr-15.trna4-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-01.trna91-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-11.trna33-Ile-TAT    GGUCUUGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-13.trna120-Ile-TAT   GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-13.trna248-Ile-TAT   GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-05.trna159-Ile-TAT   GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-05.trna158-Ile-TAT   GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-15.trna5-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-15.trna27-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-02.trna23-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-04.trna21-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-04.trna33-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-04.trna32-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-11.trna34-Ile-TAT    GGUCUUGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-15.trna34-Ile-TAT    GGUCUUGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-06.trna171-Ile-TAT   GGUCUUGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-01.trna40-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUUGCGGGUUC 57
chr-05.trna85-Ile-TAT    GGUCUCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGUGGGUUC 57
chr-13.trna63-Ile-TAT    GGUCUCGUAGCUCAGUUGGUUAGAGCAUUGGUCUUAUGAGCCG---AAGGUCGCGGGUUC 57
chr-13.trna64-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCGUGGGUUC 57
chr-05.trna68-Ile-TAT    GGUCUCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCG---AAGGUCUCGGGUUC 57
chr-05.trna28-Ile-TAT    GUUGGUGUGGUGUAG-UGGCUAUCACGUUAGUCUUAUACACUAUAAAGGUCCCCAGCUC 59
chr-05.trna31-Ile-TAT    GUUGGUGUGGUGUAG-UGGUUAUCACGUUAGUCUUAUACACUA---AAGGUCCCCAGCUC 56
chr-06.trna185-Ile-TAT   AUCAAAGUGGCACAGCGGA--AGCGUGGUGGGCCUAUAACUCA---CAGGUCCCAGGAUC 55
chr-08.trna141-Ile-TAT   AUUAGAGUGGCACAGUGGA--AGCGUGGUGGGCCUAUAACCCA---CAGGUCCCAAGAUC 55
                                 .........10........20........30........40........50.........

                                 ....)))))))))))).
chr-07.trna9-Ile-TAT     GAGCCUCUCUCACCCCA 74
chr-01.trna53-Ile-TAT    GAGCCCCACCAAGACCA 74
chr-01.trna54-Ile-TAT    GAGCCCCACCAAGACCA 74
chr-06.trna22-Ile-TAT    GAGCCCCACCAAGACCA 74
chr-04.trna31-Ile-TAT    GAGCCCCGCCGGGACCA 74
chr-01.trna35-Ile-TAT    GAGCCUCGCCGGGACCA 74
chr-14.trna7-Ile-TAT     GAGCCUCGCCAGGACCA 74
chr-15.trna4-Ile-TAT     GAGCCCCGCUGGGACCA 74
chr-01.trna91-Ile-TAT    GAGCCCCGCUGGGACCA 74
chr-11.trna33-Ile-TAT    GAGCCCCGCUAGGACCA 74
chr-13.trna120-Ile-TAT   GAGCCCCGCCGGGACCA 74
chr-13.trna248-Ile-TAT   GAGCCCCGCCGGGACCA 74
chr-05.trna159-Ile-TAT   GAGCCCCGCCGGGACCA 74
chr-05.trna158-Ile-TAT   GAGCCCCGCCGGGACCA 74
chr-15.trna5-Ile-TAT     GAGCCCCGCCGGGACCA 74
chr-15.trna27-Ile-TAT    GAGCCCCGCCGGGACCA 74
chr-02.trna23-Ile-TAT    GAGCCCCGCCGGGACCA 74
chr-04.trna21-Ile-TAT    GAGCCCCGCCGGGACCA 74
chr-04.trna33-Ile-TAT    GAGCCCCGCCGGGACCA 74
chr-04.trna32-Ile-TAT    GAGCCCCGCCGGGACCA 74
chr-11.trna34-Ile-TAT    GAGCCUCGCUAGGACCA 74
chr-15.trna34-Ile-TAT    GAGCCUCGCUAGGACCA 74
chr-06.trna171-Ile-TAT   GAGCCUCGCUAGGACCA 74
chr-01.trna40-Ile-TAT    GAGCCCCGCCGGGACCA 74
chr-05.trna85-Ile-TAT    GAGCCCCGCCGGGACCA 74
chr-13.trna63-Ile-TAT    AAGCCCCGCCGGGACCA 74
chr-13.trna64-Ile-TAT    GAACCUCGCCGGGACCA 74
chr-05.trna68-Ile-TAT    GAGCCCCGCCGGGACCA 74
chr-05.trna28-Ile-TAT    AAUCUUGGGCAUCAACA 76
chr-05.trna31-Ile-TAT    AAUCUUGGGCAUCAACA 73
chr-06.trna185-Ile-TAT   AAAACCUAGCUUUGAUA 72
chr-08.trna141-Ile-TAT   GAAACUUGGUUCUUAUU 72
                                 .........70......

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