```
                                 ((((((.(..((((.........)))).(((((.......)))))).....(((((....
chr-12.trna88-Ile-TAT    GAGGGG--UAGAGGAAUUGGUCAACUCUUCAGGCUUAUAACCUGAAGAUUACA-GGUUCG 57
chr-9.trna29-Ile-TAT     GGUAUU-AUGGUUUAAUUGGUUGAAACUUACCACUUAUAAUGGUGAUAUAGUAGGUUCAA 59
chr-7.trna30-Ile-TAT     GGUCCC-GUGGCUCAGUUGGUUAGAGAGUUGGUCUUAUGAGCCGAAGGUC-GCGAGU--U 56
chr-7.trna33-Ile-TAT     GAUCCC-GUGGCUCAGUUGGUUAGAGCAUUGGUCUUAUGAGCCGAAGGUC-GCGAGU--U 56
chr-11.trna98-Ile-AAT    GGCCCA-UUAGCUCAGUUGAUUAGAGCGUCGUGCUAAUAACGCGAAGGUC-GCAGGU--U 56
chr-2.trna85-Ile-AAT     GGCCCA-UUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUC-GCAGGU--U 56
chr-3.trna93-Ile-AAT     GGCCCA-UUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUC-GCAGGU--U 56
chr-4.trna7-Ile-AAT      GGCCCA-UUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUC-GCAGGU--U 56
chr-4.trna65-Ile-AAT     GGCCCA-UUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUC-GCAGGU--U 56
chr-4.trna66-Ile-AAT     GGCCCA-UUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUC-GCAGGU--U 56
chr-11.trna97-Ile-AAT    GGCCCA-UUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUC-GCAGGU--U 56
chr-11.trna95-Ile-AAT    GGCCCA-UUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUC-GCAGGU--U 56
chr-11.trna94-Ile-AAT    GGCCCA-UUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUC-GCAGGU--U 56
chr-11.trna87-Ile-AAT    GGCCCA-UUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUC-GCAGGU--U 56
chr-5.trna56-Ile-AAT     GGCCUA-UUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUC-GCAGGU--U 56
chr-6.trna76-Ile-AAT     GGCCCA-UUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUC-GCAGGU--U 56
chr-8.trna79-Ile-AAT     GGCCCA-UUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUC-GCAGGU--U 56
chr-10.trna29-Ile-AAT    GGCCCA-UUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGGUC-GCAGGU--U 56
chr-10.trna83-Ile-AAT    GGUCCA-UUAGCUCAGUUGGUUAGAGCGUUGUGCUAAUAACGCGAAGGUC-GCAGGU--U 56
chr-7.trna76-Ile-TAT     GGUCCC-GUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUC-GCGGGU--U 56
chr-9.trna52-Ile-TAT     GGUCCU-GUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUC-GCGGGU--U 56
chr-2.trna35-Ile-TAT     GGUCCC-GUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUC-GCGGGU--U 56
chr-5.trna3-Ile-TAT      GGUCCC-GUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUC-GCGGGU--U 56
chr-10.trna10-Ile-TAT    GGUCCC-GUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUC-GCGGGU--U 56
chr-5.trna32-Ile-TAT     GGUCCC-GUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGGUC-GCGGGU--U 56
chr-11.trna86-Ile-AAT    GGCCUA-UUAGCUUAGUUGGUUAGAGCAUUGUGCUAAUAAUGCGAAGGUA-GCAGGUUUU 58
chr-10.trna26-Ile-AAT    UGGCCUGUUAGCUAAGUUCGUUAGAAUGUCGUGCUAAUAACGCGAAGGUC-ACAGGU--U 57
chr-3.trna50-Ile-TAT     GCCCGC-UUAGCGCAG-AGGUUAGAGCAUCGCAUUUAUAAUGCGAUGGUC-AUCGGU--U 55
chr-7.trna132-Ile-AAT    UGCGGG-GUAAAGUAUUUGGUAUCUCACAAGGAUAAUAACCUUGAGGUC-ACGGGU--U 56
chr-4.trna53-Ile-TAT     GCGCCU-AUGGCCUAA-UGGAUAAGGCCCUUGACUUAUAAUCGAGCGAUC-GUGGGU--U 55
chr-12.trna99-Ile-GAT    AGGGAU-AUAACUCAGC--GGUAGAGUGUCACCUUGAUGUGGGUGGAAGUC-AUCAGU--U 54
chr-3.trna115-Ile-GAT    AGGGAU-AUAACUCAGU--GGUAGAGUGUCACCUUGAUGUGGGUAGAAGUC-AUCAGU--U 54
chr-7.trna110-Ile-TAT    ACCUAC-UUAAUUCAGU-GGUUAGAGUACUGCUUUUAUACGACGGGAGUC-AUUGGU--U 55
chr-11.trna55-Ile-AAT    ACUCUC-GUAGCUCAGUUGGUUAGAGCACCUGCUUAAUAAGCGGGAGGUC-UUGAUU--U 56
chr-2.trna21-Ile-AAT     GAAUCC-AUGGCUGAAU-GGUUAAAGCGCCAACUAAUAAUUGGCGAAUUCAUAGGU--U 56
chr-2.trna15-Ile-TAT     GUAUCC-AUGGCUGAAU-GGUUAAAUUGCCAACUUAUAAUUGGCAAAUUUGUAGGU--U 56
chr-9.trna11-Ile-TAT     GCAUCU-AUGGUUGAAU-GGUUAAAGCUCCAACUUAUAAUUGGAGAAUUCGUAGGU--U 56
chr-3.trna143-Ile-TAT    AUCAGA-GUGGCGCAAU--GGAAGCGUGGUGGGCCUAUAACCUAUAGGUC-CCAGGA--U 54
chr-9.trna59-Ile-TAT     GUUACU-GUGGUGUAGU-GGUUAUCACCUCAGUCUUAUACACUAAAGGUC-CCCAGU--U 55
                         .........10........20........30........40........50.........

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chr-12.trna88-Ile-TAT    AAUCUUUUCCUCACCU-- 73
chr-9.trna29-Ile-TAT     GUCCUACUAAGCCUACCA 77
chr-7.trna30-Ile-TAT     CGAGCCCAGCCGGGAUCA 74
chr-7.trna33-Ile-TAT     CGAGCCCGCAGGGACCA 74
chr-11.trna98-Ile-AAT    CGAGACCUGCAUGGGCCA 74
chr-2.trna85-Ile-AAT     CGAGACCUGCAUGGGCCA 74
chr-3.trna93-Ile-AAT     CGAGACCUGCAUGGGCCA 74
chr-4.trna7-Ile-AAT      CGAGACCUGCAUGGGCCA 74
chr-4.trna65-Ile-AAT     CGAGACCUGCAUGGGCCA 74
chr-4.trna66-Ile-AAT     CGAGACCUGCAUGGGCCA 74
chr-11.trna97-Ile-AAT    CGAGACCUGCAUGGGCCA 74
chr-11.trna95-Ile-AAT    CGAGACCUGCAUGGGCCA 74
chr-11.trna94-Ile-AAT    CGAGACCUGCAUGGGCCA 74
chr-11.trna87-Ile-AAT    CGAGACCUGCAUGGGCCA 74
chr-5.trna56-Ile-AAT     CGAGACCUGCAUGGGCCA 74
chr-6.trna76-Ile-AAT     CGAGACCUGCAUGGGCCA 74
chr-8.trna79-Ile-AAT     CGAGACCUGCAUGGGCCA 74
chr-10.trna29-Ile-AAT    CGAAACCUGCAUGGGCCA 74
chr-10.trna83-Ile-AAT    UGAGACUUGCAUGGGCCA 74
chr-7.trna76-Ile-TAT     CGAGCCCGCUGGGACCA 74
chr-9.trna52-Ile-TAT     CGAGCCCGCCAGGACCA 74
chr-2.trna35-Ile-TAT     CGAGCCCGCCGGGACCA 74
chr-5.trna3-Ile-TAT      CGAGCCCGCCGGGACCA 74
chr-10.trna10-Ile-TAT    CGAGCCCGCCGGGACCA 74
chr-5.trna32-Ile-TAT     CGAGCCCGCCGAGACCA 74
chr-11.trna86-Ile-AAT    UGACACCUGCAUGGGUCA 76
chr-10.trna26-Ile-AAT    CGAAAUCUGUAUGGCCAA 75
chr-3.trna50-Ile-TAT     CGAUUCCGAUAGCCGGCU 73
chr-7.trna132-Ile-AAT    CAAAUCCUGUCUCUGCAA 74
chr-4.trna53-Ile-TAT     CAUGUCCCACUGGGUGUG 73
chr-12.trna99-Ile-GAT    CGAGCCUGAUUAUCCCUA 72
chr-3.trna115-Ile-GAT    CGAGCCUGAUUAUCCCUA 72
chr-7.trna110-Ile-TAT    CAAAUCCAGUAGUAGGUA 73
chr-11.trna55-Ile-AAT    CAACUUUCAACGAGAACA 74
chr-2.trna21-Ile-AAT     CAAUUCCUACUGGAUGCA 74
chr-2.trna15-Ile-TAT     UAAUUCCUAUUGGAUGCA 74
chr-9.trna11-Ile-TAT     CAAUUCCUACUUGAUGCA 74
chr-3.trna143-Ile-TAT    CAAAACUUGGCUCUGAUA 72
chr-9.trna59-Ile-TAT     CGAUCCUGAGCAGCAAUA 73
                         .........70.......

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