```
                                 (((((.((.....((((.........)))).(((((.......)))))).....(((((..
chr-A02.trna9-Asn-GTT            UCCUU-AU---UAGCUCAAU--GGUAGAGUGGUCGGCUGUUAAUUGACUAGUCGUAGGUU 54
chr-B10.trna222-Asn-GTT          UCCUC-AG---UAGCUCAGU--GGUAGAGCGGUCGGCUGUUAACUGACUGGUCGUAGGUU 54
chr-B10.trna46-Asn-GTT           UCCUC-AG---UAGCUCAGU--GGUAGAGCGGUCGGCUGUUAACUGACUGGUCGUAGGUU 54
chr-B06.trna163-Asn-GTT          UCCUC-AG---UAGCUCAGU--GGUAGAGCGGUCGGCUGUUAACUGACUGGUCGUAGGUU 54
chr-B09.trna214-Asn-GTT          UCCUC-AA---UAGCUCAGU--GGUAGAGCGGUCGGCUGUUAACUGACUGGUCGUAGGUU 54
chr-A05.trna61-Asn-GTT           UCCUC-AA---UAGCUCAGU--GGUAGAGCGGUCGGCUGUUAACUGACUGGUCGUAGGUU 54
chr-B09.trna215-Asn-GTT          UCCUC-AA---UAGCUCAGU--GGUAGAGCGGUCGGCUGUUAACUGACUGGUCGUAGGUU 54
chr-A09.trna37-Asn-GTT           UCCUC-AG---UAGCUCAGU--GGUAGAGCGGUCGGCUGUUAACUGACUGGUCGUAGGUU 54
chr-A02.trna30-Asn-GTT           UCCUC-AG---UAGCUCAGU--GGUAGAGCGGUCGGCUGUUAACUGACUGGUCGUAGGUU 54
chr-A07.trna85-Asn-GTT           UCCUC-AG---UAGCUCAGU--GGUAGAGCGGUCGGCUGUUAACUGACUGGUCGUAGGUU 54
chr-A07.trna83-Asn-GTT           UCCAC-AG---UAGCUCAAU--GGUAGAGCAGUCGGCUGUUAACUGACUGGUCGUAGGUU 54
chr-A02.trna67-Asn-GTT           UUCUC-AG---UAGCUCAGU--GGUAGAGCGAUCAGCUGUUAACUGACUGGUCAUAGGUU 54
chr-A09.trna42-Asn-GTT           UCCCUCAG---UAGCUCAGU--GGUAGAGCGAUUCGCUGUUAACUGACUGGUCGUAGGUU 55
chr-B02.trna100-Asn-GTT          UCCUCAGUAGCUAGCUCAGU--GGUAGAGCGGUCGGCUGUUAACUGACUGGUCGUAGGUU 58
chr-A10.trna41-Asn-GTT           GCUAG-AA---UAGUUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGAUUGGAAGUU 56
chr-B09.trna7-Asn-GTT            GCUGG-AG---UAGCUCAGAUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGAAGGUU 56
chr-A09.trna48-Asn-GTT           GCUGG-AG---UAGCUCAGAUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGAAGGUU 56
chr-B09.trna6-Asn-GTT            GCUGG-AA---UAGCUCAGAUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGAAGGUU 56
chr-A01.trna52-Asn-GTT           GCUGG-AG---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGAAGGUU 56
chr-A02.trna99-Asn-GTT           GCUGG-AG---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGAAGGUU 56
chr-A07.trna98-Asn-GTT           GCUGG-AG---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGAAGGUU 56
chr-B05.trna145-Asn-GTT          GCUGG-AG---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGAAGGUU 56
chr-B08.trna104-Asn-GTT          GCUGG-AG---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGAAGGUU 56
chr-A03.trna71-Asn-GTT           GCUGG-AA---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUU 56
chr-A06.trna8-Asn-GTT            GCUGG-AA---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUU 56
chr-B10.trna14-Asn-GTT           GCUGG-AA---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUU 56
chr-A10.trna1-Asn-GTT            GCUGG-AA---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUU 56
chr-B03.trna16-Asn-GTT           GCUGG-AA---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUU 56
chr-B03.trna119-Asn-GTT          GCUGG-AA---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUU 56
chr-B08.trna96-Asn-GTT           GCUGG-AA---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUU 56
chr-B04.trna215-Asn-GTT          GCUGG-AA---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUU 56
chr-B06.trna12-Asn-GTT           GCUGG-AA---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUU 56
chr-A09.trna96-Asn-GTT           GCUGG-AG---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGAAGGUU 56
chr-A03.trna15-Asn-GTT           GCUGG-AA---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCAUAAGGUCGGAGGUU 56
chr-B10.trna1-Asn-GTT            GCUGG-AG---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCAUAAGGUCGAAGGUU 56
chr-A01.trna17-Asn-GTT           GCUGG-AA---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUU 56
chr-A03.trna144-Asn-GTT          GCUGG-AG---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGAAGGUU 56
chr-A02.trna120-Asn-GTT          GCUGG-AG---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGAAGGUU 56
chr-A08.trna64-Asn-GTT           GCUGG-AA---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUU 56
chr-B03.trna244-Asn-GTT          GCUGG-AA---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUU 56
chr-A04.trna36-Asn-GTT           GCUGG-AA---UAGCUCAGUUGGUUAGAGUGUGUGGCUGUUAACCACAAGGUCGGAGGUU 56
chr-A05.trna22-Asn-GTT           GCUGG-AG---UAGCUCAGUUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCAAAGGUU 56
chr-A09.trna47-Asn-GTT           GCUGA-AA---UAGCUCAGAUGGUUAGAGCGUGUGGCUGUUAACCACAAGGUCGGAGGUU 56
chr-B02.trna78-Asn-GTT           GCUGA-AA---UAGCUCAGUUGGUUAGAGCGUGUGGUUGUUAACCACAAGGUCGGAGGUU 56
chr-A03.trna72-Asn-GTT           GCUGG-AA---UAGCUCAGUU-GUUAGAGCGUGUGGCUGUUAACCA-AAGGUCGGAGGUU 54
chr-A03.trna46-Asn-GTT           UCCCCAAU---CAUUGAUGGUUCUAAGAGCGGUCGGCUGUUAACUGACUAGUCGUAGGUU 57
chr-B09.trna4-Asn-GTT            GCUGG-AA---UAGCUCAGU-GGUUAGAGCGUGUGGCUGUUAACCACAA-GUCAAGG-UU 53
chr-B06.trna48-Asn-GTT           UCCUC-AG---UAGCUCAGU--GGUAGA-CGGUCGGCUGUUAACUGACUUGUCGUAGGUU 53
chr-B06.trna130-Asn-GTT          UCCUC-AG---UAGCUCAGU--GGUAGAGCGGUCGGCUGUUAACUGACUGGUCGUAGGUU 54
chr-B02.trna146-Asn-GTT          GUCGU-UG---UAGUAUAGU-GGUAAGUAUUCCCGCCUGUUACGCAGGUGA-CCCGCGUA 54
chr-B02.trna147-Asn-GTT          GUCGU-UG---UAGUAUAGU-GGUAAGUAUUCCCGCCUGUUACGCAGGUGA-CCCGCGUA 54
                                 .........10........20........30........40........50.........

                                 .......)))))))))).)).
chr-A02.trna9-Asn-GTT            CG--AAUCCUACUUGGG-GAG 72
chr-B10.trna222-Asn-GTT          CA--AAUCCUACUUGGG-GAG 72
chr-B10.trna46-Asn-GTT           CA--AAUCCUACUUGGG-GAG 72
chr-B06.trna163-Asn-GTT          CA--AAUCCUACUUGGG-GAG 72
chr-B09.trna214-Asn-GTT          CG--AAUCCUACUUGGG-GAG 72
chr-A05.trna61-Asn-GTT           CG--AAUCCUACUUGGG-GAG 72
chr-B09.trna215-Asn-GTT          CG--AAUCCUACUUGGG-GAG 72
chr-A09.trna37-Asn-GTT           C---AAUCCUACUUGGG-GAG 71
chr-A02.trna30-Asn-GTT           UG--AAUCCUACUUUGG-GAG 72
chr-A07.trna85-Asn-GTT           CG--AAUCCUACUUGGA-GAG 72
chr-A07.trna83-Asn-GTT           CG--AAUCCUACUUGGA-GAG 72
chr-A02.trna67-Asn-GTT           CG--AAUCCUACUUGGG-GAG 72
chr-A09.trna42-Asn-GTT           CG--AAUCCUACUUAGG-GAG 73
chr-B02.trna100-Asn-GTT          CG--AAUCCUACUUGGA-GAG 76
chr-A10.trna41-Asn-GTT           CA--AGCCCUCCUUCUA-GCG 74
chr-B09.trna7-Asn-GTT            CA--AGCCCUCCUUCUA-GCG 74
chr-A09.trna48-Asn-GTT           CA--AGCCCUCCUCCUA-GCG 74
chr-B09.trna6-Asn-GTT            CA--AGCCCUCCUUCUA-GCG 74
chr-A01.trna52-Asn-GTT           CA--AGCCCUCCUCCUA-GCG 74
chr-A02.trna99-Asn-GTT           CA--AGCCCUCCUCCUA-GCG 74
chr-A07.trna98-Asn-GTT           CA--AGCCCUCCUCCUA-GCG 74
chr-B05.trna145-Asn-GTT          CA--AGCCCUCCUCCUA-GCG 74
chr-B08.trna104-Asn-GTT          CA--AGCCCUCCUCCUA-GCG 74
chr-A03.trna71-Asn-GTT           CA--AGCCCUCCUUCUA-GCG 74
chr-A06.trna8-Asn-GTT            CA--AGCCCUCCUUCUA-GCG 74
chr-B10.trna14-Asn-GTT           CA--AGCCCUCCUUCUA-GCG 74
chr-A10.trna1-Asn-GTT            CA--AGCCCUCCUUCUA-GCG 74
chr-B03.trna16-Asn-GTT           CA--AGCCCUCCUUCUA-GCG 74
chr-B03.trna119-Asn-GTT          CA--AGCCCUCCUUCUA-GCG 74
chr-B08.trna96-Asn-GTT           CA--AGCCCUCCUUCUA-GCG 74
chr-B04.trna215-Asn-GTT          CA--AGCCCUCCUUCUA-GCG 74
chr-B06.trna12-Asn-GTT           CA--AGCCCUCCUUCUA-GCG 74
chr-A09.trna96-Asn-GTT           CA--AGCCCUUCUUCUA-GUG 74
chr-A03.trna15-Asn-GTT           CA--AGCCCUCCUUCUA-GCG 74
chr-B10.trna1-Asn-GTT            CA--AGCCCUUCCUCUA-GCG 74
chr-A01.trna17-Asn-GTT           CA--AGCCCUUCUUCUA-GCG 74
chr-A03.trna144-Asn-GTT          CA--AGCCCUUUUCUA-GCG 74
chr-A02.trna120-Asn-GTT          CA--AGCUCUUCCUCUA-GCG 74
chr-A08.trna64-Asn-GTT           CA--AGUCCUCCUUCUA-GCG 74
chr-B03.trna244-Asn-GTT          UA--AGCCCUUCUUCUA-GCG 74
chr-A04.trna36-Asn-GTT           CA--AGCCCUCCUUCUA-GCG 74
chr-A05.trna22-Asn-GTT           CA--AGCCCUUCUUCUA-GCG 74
chr-A09.trna47-Asn-GTT           CA--AGCCCUCCUUCUA-GCG 74
chr-B02.trna78-Asn-GTT           CA--AGCCCUCCUUCUA-GCG 74
chr-A03.trna72-Asn-GTT           CA--AGCCCUCCUUCUA-GCG 72
chr-A03.trna46-Asn-GTT           CG--AAUCCUACUUGGG-GAG 75
chr-B09.trna4-Asn-GTT            CA--A--CCCUCUUCUA-GCG 69
chr-B06.trna48-Asn-GTT           CG--AAUCCUACGUGGGAGAG 72
chr-B06.trna130-Asn-GTT          CAUUAGAGCUAUUUGAU-AAA 74
chr-B02.trna146-Asn-GTT          CG-CGUCCCCGGCAACG-GUG 73
chr-B02.trna147-Asn-GTT          CG-CGUCCCCGGCAACG-GUG 73
                                 .........70........80
```