```
                        ((..(((((..(((.............))).(((((.......)))))).....(((((...
chr-1.trna90-Pro-TGG    CG--AGGUGUAGCGCAGUCUGGUCAACGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUC 58
chr-3.trna90-Pro-TGG    CG--AGGUGUAGCGCAGUCUGGUCAACGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUC 58
chr-4.trna368-Pro-TGG   CG--AGGUGUAGCGCAGUCUGGUCAACGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUC 58
chr-2.trna575-Pro-TGG   CG--AGGUGUAGCGCAGUCUGGUCAGCGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUC 58
chr-3.trna64-Pro-TGG    CG--AGGUGUAGCGCAGUCUGGUCAGCGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUC 58
chr-3.trna504-Pro-TGG   CG--AGGUGUAGCGCAGUCUGGUCAGCGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUC 58
chr-3.trna539-Pro-TGG   CG--AGGUGUAGCGCAGUCUGGUCAGCGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUC 58
chr-3.trna608-Pro-TGG   CG--AGGUGUAGCGCAGUCUGGUCAGCGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUC 58
chr-7.trna471-Pro-TGG   CG--AGGUGUAGCGCAGUCUGGUCAGCGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUC 58
chr-7.trna285-Pro-TGG   CG--AGGUGUAGCGCAGUCUGGUCAGCGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUC 58
chr-4.trna68-Pro-TGG    CG--AGGUGUAGCGCAGUCUGGUCAGCGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUC 58
chr-5.trna555-Pro-TGG   CG--AGGUGUAGCGCAGUCUGGUCAGCGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUC 58
chr-1.trna64-Pro-TGG    CG--AGGUGUAGCGCAGUCUGGUCAGCGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUU 58
chr-7.trna168-Pro-TGG   CG--AGGUGUAGCGCAGUCUGGUCAGCGCAUCUGUUUUGGGUACAGAGGGCCAUAGGUUC 58
chr-4.trna358-Pro-TGG   UG--AGGUGUAGCGUAGUCUGGUCAACGCAUCUGUUAUGGGUACAGAGGGCCAUAGGUUC 58
chr-2.trna21-Pro-TGG    AG--GGAUGUAGCGCAGCUUGGU-AGCGCGUUUGUUUUGGGUACAAAAUGUCACAGGUUC 57
chr-4.trna445-Pro-TGG   AG--GGAUGUAGCGCAGCUUGGU-AGCGCGUUUGUUUUGGAUACAAAAUGUCACAGGUUC 57
chr-4.trna398-Pro-TGG   AG--GGAUGUAGCGCAGCUUGGU-AUCGCGUUUGUUUUGGGUACAAAAUGUCACAGGUUC 57
chr-6.trna205-Pro-TGG   AG--GGAUGUAGCGCAGCUUGGU-AGCGCGUUUGUUUUGGGUACAAAAUGUCACAAGUUU 57
chr-2.trna373-Pro-TGG   AG--GGGUGCAGCACAGCUUGGU-AGCACGUUUGUUUUGGGUACAAAACGUCACAGGUUC 57
chr-5.trna215-Pro-TGG   GG--GCGUUUGGUCUAC--UGAU-AUGAUUCUUGCUUUGGGUGCGAGAGGUCAUGAGUUC 55
chr-7.trna531-Pro-TGG   GG--GCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUC 55
chr-7.trna526-Pro-TGG   GG--GCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUC 55
chr-7.trna41-Pro-TGG    GG--GCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUC 55
chr-7.trna40-Pro-TGG    GG--GCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUC 55
chr-7.trna36-Pro-TGG    GG--GCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUC 55
chr-7.trna34-Pro-TGG    GG--GCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUC 55
chr-7.trna32-Pro-TGG    GG--GCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUC 55
chr-7.trna521-Pro-TGG   GG--GCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUC 55
chr-7.trna42-Pro-TGG    GG--GCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUC 55
chr-5.trna214-Pro-TGG   GG--GCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUC 55
chr-7.trna130-Pro-TGG   GG--GCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUC 55
chr-5.trna229-Pro-TGG   GG--GCGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCGCGAGUUC 55
chr-5.trna263-Pro-TGG   GG--GUGUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGUGAGAGGUCGCGAGUUC 55
chr-2.trna578-Pro-TGG   GG--GCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCGAGUUC 55
chr-6.trna188-Pro-TGG   GG--GCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCGAGUUC 55
chr-6.trna187-Pro-TGG   GG--GCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGCGAGAGGUCCGAGUUC 55
chr-7.trna154-Pro-TGG   GG--GCAUUUGGUCUAG--UGGU-AUGAUUCUCGCUUUGGGUGUGGGAGGUCCGAGUUC 55
chr-2.trna565-Pro-TGG   GGCUGCGUUUGGUCUAG--UGGU-AUGAUUCUUGCUCUGGGUGCGAGAGGCCGCGAUUUC 57
                        .........10........20........30........40........50.........

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chr-1.trna90-Pro-TGG    GAAUCCUGUCA-CCUUGA 75
chr-3.trna90-Pro-TGG    GAAUCCUGUCA-CCUUGA 75
chr-4.trna368-Pro-TGG   GAAUCCUGUCA-CCUUGA 75
chr-2.trna575-Pro-TGG   GAAUCCUGUCA-CCUUGA 75
chr-3.trna64-Pro-TGG    GAAUCCUGUCA-CCUUGA 75
chr-3.trna504-Pro-TGG   GAAUCCUGUCA-CCUUGA 75
chr-3.trna539-Pro-TGG   GAAUCCUGUCA-CCUUGA 75
chr-3.trna608-Pro-TGG   GAAUCCUGUCA-CCUUGA 75
chr-7.trna471-Pro-TGG   GAAUCCUGUCA-CCUUGA 75
chr-7.trna285-Pro-TGG   GAAUCCUGUCA-CCUUGA 75
chr-4.trna68-Pro-TGG    GAAUCCUGUCA-CCUUGA 75
chr-5.trna555-Pro-TGG   GAAUCCUGUCA-CCUUGA 75
chr-1.trna64-Pro-TGG    GAAUCAUGUCA-CCUUGA 75
chr-7.trna168-Pro-TGG   GAAUCAUGUCA-CCUUGA 75
chr-4.trna358-Pro-TGG   GAAUCCUGUCG-CCUUGA 75
chr-2.trna21-Pro-TGG    AAAUCCUAUCA-UCCCUA 74
chr-4.trna445-Pro-TGG   AAAUCCUGUCA-UCCCUA 74
chr-4.trna398-Pro-TGG   AAAUCCUGUCA-UCCCUA 74
chr-6.trna205-Pro-TGG   AAAUCCUGUCA-UCCCUA 74
chr-2.trna373-Pro-TGG   AAAUCCUGUCA-UCCCUA 74
chr-5.trna215-Pro-TGG   GAUUCUCGCAAUUGCCCC 73
chr-7.trna531-Pro-TGG   GAUUCUCGCAA-CGCCCC 72
chr-7.trna526-Pro-TGG   GAUUCUCGCAA-CGCCCC 72
chr-7.trna41-Pro-TGG    GAUUCUCGCAA-CGCCCC 72
chr-7.trna40-Pro-TGG    GAUUCUCGCAA-CGCCCC 72
chr-7.trna36-Pro-TGG    GAUUCUCGCAA-CGCCCC 72
chr-7.trna34-Pro-TGG    GAUUCUCGCAA-CGCCCC 72
chr-7.trna32-Pro-TGG    GAUUCUCGCAA-CGCCCC 72
chr-7.trna521-Pro-TGG   GAUUCUCGCAA-CGCCCC 72
chr-7.trna42-Pro-TGG    GAUUCUCGCAA-CGCCCC 72
chr-5.trna214-Pro-TGG   GAUUCUCGCAA-CGCCCC 72
chr-7.trna130-Pro-TGG   GAUUCUCGCAA-CGCCCC 72
chr-5.trna229-Pro-TGG   GAUUCUCGCAA-CGCCCC 72
chr-5.trna263-Pro-TGG   GAUUCUCGCAA-CGCCCC 72
chr-2.trna578-Pro-TGG   GAUUCUCGGAA-UGCCCC 72
chr-6.trna188-Pro-TGG   GAUUCUCGGAA-UGCCCC 72
chr-6.trna187-Pro-TGG   GAUUCUCGGAA-UGCCCC 72
chr-7.trna154-Pro-TGG   GAUUCUCGGAA-UGCCCC 72
chr-2.trna565-Pro-TGG   AAUUCUCGCAA-CGCCCC 74
                        .........70.......

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