```
                                 ((((((.....................(((((((((.......))))))).))).(((((.
chr-6C.trna41-Pro-AGG    GGGGAUU-----UAGUCU-AGUGGUAAGAUGUACGCUUAGGGAGCGUAAGGUC-CCGAGU 53
chr-6C.trna40-Pro-AGG    GGGGAUU-----UAGUCU-AGUGGUAAGAUGUACGCUUAGGGAGCGUAAGGUC-CCGAGU 53
chr-6C.trna26-Pro-AGG    GGGGAUU-----UAGUCU-AGUGGUAAGAUGUACGCUUAGGGAGCGUAAGGUC-CCGAGU 53
chr-6C.trna25-Pro-AGG    GGGGAUU-----UAGUCU-AGUGGUAAGAUGUACGCUUAGGGAGCGUAAGGUC-CCGAGU 53
chr-2A.trna33-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-2A.trna34-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-8C.trna3-Pro-AGG     GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-8B.trna50-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-8B.trna7-Pro-AGG     GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-8B.trna1-Pro-AGG     GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-8A.trna39-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-2A.trna37-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-8A.trna2-Pro-AGG     GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-8C.trna22-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-2B.trna51-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-2B.trna52-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-6C.trna37-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-6C.trna36-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-2B.trna53-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-2B.trna55-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-2C.trna50-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-2C.trna53-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-5C.trna28-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-5B.trna47-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-5A.trna29-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-4D.trna91-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-4D.trna90-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-4D.trna89-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-4D.trna5-Pro-AGG     GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-4B.trna78-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-4B.trna77-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-3D.trna29-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-3C.trna37-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-2D.trna44-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-3A.trna26-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-2D.trna49-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-8D.trna5-Pro-AGG     GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUUGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-2C.trna52-Pro-AGG    GGGCUUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-8A.trna7-Pro-AGG     GAGCAUU-----UGGUCU-AGUGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 53
chr-6D.trna39-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUAUGAUUCUCACUUAGGGUGCAAGAUUUC-CCGAGU 53
chr-3B.trna23-Pro-AGG    GGGCAUU-----UGGUCU-AGUGGUACGAUUCUCGCUUAGGGUGCGAGAGGUUUUCAAGU 54
chr-2A.trna75-Pro-AGG    AGGUGUU-----UUGUCU-AGUGGUAGGAUUCUUGCUUAGGGAGUGAGAGGUC-GUGAGU 53
chr-2C.trna99-Pro-AGG    GGGUGUU-----UUGUCC-AGUGGUAGGAUUCUUGCUUAGGGAGUAAGAGGUC-GUGAGU 53
chr-2B.trna26-Pro-AGG    AGGUGUU-----UUGUCC-AGUGGUAGGAUUCUUGCUUAGGGAGUGAGAGGUC-GUGAGU 53
chr-2B.trna24-Pro-AGG    AGGUGUU-----UUGUCC-AGUGGUAGGAUUCUUGCUUAGGGAGUGAGAGGUC-GUGAGU 53
chr-2A.trna21-Pro-AGG    AGGUGUU-----UUGUCC-AGUGGUAGGAUUCUUGCUUAGGGAGCGAGAGGUC-GUGAGU 53
chr-2D.trna19-Pro-AGG    AGGUGUU-----UUGUCC-AGUGGUAGGAUUCUUGCUUAGGGAGUGAGAGGUC-GUAAGU 53
chr-2D.trna84-Pro-AGG    GGGUGUU-----UUGUCC--GUGGUAGGAUUCUUGCUUAGGGAGUGAGAGGUC-GUGAGU 52
chr-2D.trna21-Pro-AGG    GGGUGUU-----UUGUCC-AGUGGUAGGAUUCUUGCUUAGGGAGUGAGAGGUC-GUGAGU 53
chr-6B.trna25-Pro-AGG    CGGCAUU-----UGGUCU-AGUGGUAUAAUUCUCACUUAGGGUGCGACAGGUC-CGGAGU 53
chr-2D.trna83-Pro-AGG    GGGUGUU-----UCGUCC-AGUGGUAGGAUUCUU-CUGAGGGAGUAAGAGGUU-GUGAGU 52
chr-2B.trna23-Pro-AGG    GGGUGUU-----UCGUCC-AGUGGUAGGAUUCUU-CUUAGGGAGUAAGAGGUC-GUGAGU 52
chr-2B.trna25-Pro-AGG    GGGUGUU-----UCGUCC-AGUGGUAGGAUUCUU-CUUAGGGAGUAAGAGGUC-GUGAGU 52
chr-2D.trna18-Pro-AGG    GGGUGUU-----UCGUCC-AGUGGUAGGAUUCUU-CUUAGGGAGUAAGAGGUC-GUGAGU 52
chr-2A.trna20-Pro-AGG    GGGUGUU-----UCGUCC-AGUGGUAGGAUUCUU-CUUAGGGAGUAAGAGGUC-GUGAGU 52
chr-2A.trna74-Pro-AGG    AGGUGUU-----UCGUCC-AGUGGUAGGAUUCUU-CUUAGGGAGUAAGAGGUC-GUGAGU 52
chr-5A.trna32-Pro-AGG    GGGGGUG-----UAGCUCAAAUGGUAGAGCGCUCGCUUAGGUUGCGAGAGG-CACGGGGA 54
chr-6C.trna27-Pro-AGG    UGGGCCUAAACAUACUCCAACAGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUC-CCGAGU 59
                         .........10........20........30........40........50.........
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                         ......)))))))..)))))..
chr-6C.trna41-Pro-AGG    UCAAUUCUCGGAA-UCCCCA- 72
chr-6C.trna40-Pro-AGG    UCAAUUCUCGGAA-UCCCCA- 72
chr-6C.trna26-Pro-AGG    UCAAUUCUCGGAA-UCCCCA- 72
chr-6C.trna25-Pro-AGG    UCAAUUCUCGGAA-UCCCCA- 72
chr-2A.trna33-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-2A.trna34-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-8C.trna3-Pro-AGG     UCAAUUCUCGGAA-UGCCCC- 72
chr-8B.trna50-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-8B.trna7-Pro-AGG     UCAAUUCUCGGAA-UGCCCC- 72
chr-8B.trna1-Pro-AGG     UCAAUUCUCGGAA-UGCCCC- 72
chr-8A.trna39-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-2A.trna37-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-8A.trna2-Pro-AGG     UCAAUUCUCGGAA-UGCCCC- 72
chr-8C.trna22-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-2B.trna51-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-2B.trna52-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-6C.trna37-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-6C.trna36-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-2B.trna53-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
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chr-5C.trna28-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-5B.trna47-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
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chr-4D.trna5-Pro-AGG     UCAAUUCUCGGAA-UGCCCC- 72
chr-4B.trna78-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
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chr-3D.trna29-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-3C.trna37-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-2D.trna44-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-3A.trna26-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-2D.trna49-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
chr-8D.trna5-Pro-AGG     UCAAUUCUCGGAA-UGCCCC- 72
chr-2C.trna52-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 72
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chr-6D.trna39-Pro-AGG    UCAAUUCUCGAAA-UGCCCC- 72
chr-3B.trna23-Pro-AGG    UCAAUUCUCGGAA-UGCCCC- 73
chr-2A.trna75-Pro-AGG    UCAAUUCUCACAA-CACCCC- 72
chr-2C.trna99-Pro-AGG    UCAAUUCUCACAA-CACCCC- 72
chr-2B.trna26-Pro-AGG    UCAAUUCUCACAA-CACCCC- 72
chr-2B.trna24-Pro-AGG    UCAAUUCUCACAA-CACCCA- 72
chr-2A.trna21-Pro-AGG    UCAAUUCUGACAA-CACCAC- 72
chr-2D.trna19-Pro-AGG    UCAAUUCUCACAA-CACCAC- 72
chr-2D.trna84-Pro-AGG    UCAAUUCUCACAA-CACCCC- 71
chr-2D.trna21-Pro-AGG    UCAAUUCUCACAA-CACCACA 73
chr-6B.trna25-Pro-AGG    UCAAUUCUCUAAA-UGCCCC- 72
chr-2D.trna83-Pro-AGG    UCGAUUCUCACAA-CACCCC- 71
chr-2B.trna23-Pro-AGG    UCGAUUCUCACAA-CACCCC- 71
chr-2B.trna25-Pro-AGG    UCGAUUCUCACAA-CACCCC- 71
chr-2D.trna18-Pro-AGG    UCGAUUCUCACAA-CACCCC- 71
chr-2A.trna20-Pro-AGG    UUGAUUCUCACAA-CACCCC- 71
chr-2A.trna74-Pro-AGG    UCGAUUCUCACAA-CACCCC- 71
chr-5A.trna32-Pro-AGG    UCGAUACCCCGCA-UCUCCA- 73
chr-6C.trna27-Pro-AGG    UCAAUUCUCGGAAUGCCCCAU 80
                         .........70........80
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