```
                          ((((.....((...(...((.......)).....(((((((.....((.......)))
chr-B2.trna10-Pro-TGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B2.trna52-Pro-TGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B8.trna18-Pro-TGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B2.trna57-Pro-TGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B2.trna117-Pro-TGG    GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B7.trna141-Pro-TGG    GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B7.trna113-Pro-TGG    GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B3.trna39-Pro-TGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B3.trna80-Pro-TGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B8.trna60-Pro-TGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B6.trna38-Pro-TGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B6.trna61-Pro-TGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B7.trna16-Pro-TGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B7.trna58-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B7.trna53-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B7.trna52-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B7.trna51-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B7.trna50-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B7.trna49-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B7.trna48-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B7.trna47-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B7.trna46-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B3.trna97-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B3.trna98-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B3.trna102-Pro-TGG    GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B5.trna40-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B5.trna42-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B7.trna55-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B5.trna43-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B7.trna56-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B6.trna5-Pro-TGG      GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B6.trna3-Pro-TGG      GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B7.trna54-Pro-TGG     GGGC-----AU---UUGAUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B1.trna40-Pro-CGG     GGGU-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUCGGGUGCG 40
chr-B1.trna85-Pro-CGG     GGGU-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUCGGGUGCG 40
chr-B1.trna88-Pro-CGG     GGGU-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUCGGGUGCG 40
chr-B2.trna62-Pro-CGG     GGGU-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUCGGGUGCG 40
chr-B8.trna83-Pro-CGG     GGGU-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUCGGGUGCG 40
chr-B5.trna110-Pro-CGG    GGGU-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUCGGGUGCG 40
chr-B5.trna120-Pro-CGG    GGGU-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUCGGGUGCG 40
chr-B8.trna6-Pro-CGG      GGGU-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUCGGGUGCG 40
chr-B8.trna138-Pro-TGG    GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B1.trna31-Pro-AGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B1.trna78-Pro-AGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B8.trna62-Pro-AGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B1.trna80-Pro-AGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B5.trna96-Pro-AGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B3.trna14-Pro-AGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B3.trna77-Pro-AGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B6.trna40-Pro-AGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B7.trna15-Pro-AGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B6.trna67-Pro-AGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B1.trna18-Pro-AGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B5.trna102-Pro-AGG    GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B5.trna37-Pro-AGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B8.trna72-Pro-AGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B7.trna96-Pro-AGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B6.trna4-Pro-AGG      GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B7.trna86-Pro-AGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B6.trna77-Pro-AGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B5.trna41-Pro-AGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B7.trna12-Pro-AGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B1.trna13-Pro-AGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B8.trna43-Pro-AGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B3.trna121-Pro-AGG    GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B3.trna100-Pro-AGG    GGGC-----AU---UUGGUCUAGU---GGU---AUGAUCCUC------GCUUAGGGUGCG 40
chr-B3.trna99-Pro-CGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUCGGGAGUG 40
chr-B5.trna38-Pro-TGG     GGGC-----AU---UUGGUCAGGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B5.trna39-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B3.trna96-Pro-TGG     GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B2.trna1-Pro-AGG      GGGC-----UU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUAGGGUGCG 40
chr-B3.trna95-Pro-AGG     GGGC-----AU---AUGGUCUAGU---GGU---AUGACUCUC------GCUUAGGGUGCG 40
chr-B3.trna104-Pro-TGG    GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------ACUUUGGGUGCG 40
chr-B7.trna145-Pro-AGG    GGGC-----GU---UUGGUUUAGU---GGU---AUGGUACUC------GCUUAGGGAGCG 40
chr-B3.trna101-Pro-TGG    GGGC-----UU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 40
chr-B3.trna103-Pro-CGG    GGGC-----AU---UUGGUCUAGU---GGU---AUGAUUCUC------ACUUCGGGAGUG 40
chr-B3.trna79-Pro-TGG     GGGC-----GU---UUGGUCUAGU---GGU---AUGAUUUUA------GCUUUGGGUGUG 40
chr-B5.trna20-Pro-TGG     UAAACGGGCGU---UUGGUCUAGU---GGU---AUGAUUCUC------GCUUUGGGUGCG 45
chr-B5.trna87-Pro-TGG     CGAG-----GU---GUAGCGCAGUCUGGUC---AGCGCAUCU------GUUUGGGUACA 43
chr-B7.trna57-Pro-TGG     AGGCAUUUGGU---CUAGUGGUAUGAAUU----AUGAUUCUG------GCUUUGGGUGCA 47
chr-B6.trna62-Pro-CGG     UCCGCUGUAGCACAUUGGUUUAUUUCGUAUUGAAAAUUCGAGCCUCGGAAGUUCGGUUUC 60
                          .........10........20........30........40........50.........
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                          ))))..)(((((.......))))))))))))...
chr-B2.trna10-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAACGCCCC-- 72
chr-B2.trna52-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAACGCCCC-- 72
chr-B8.trna18-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAACGCCCC-- 72
chr-B2.trna57-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAACGCCCC-- 72
chr-B2.trna117-Pro-TGG    AGAGGUCCCGAGUUCGAUUCUCGGAACGCCCC-- 72
chr-B7.trna141-Pro-TGG    AGAGGUCCCGAGUUCGAUUCUCGGAACGCCCC-- 72
chr-B7.trna113-Pro-TGG    AGAGGUCCCGAGUUCGAUUCUCGGAACGCCCC-- 72
chr-B3.trna39-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAACGCCCC-- 72
chr-B3.trna80-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAACGCCCC-- 72
chr-B8.trna60-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAACGCCCC-- 72
chr-B6.trna38-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAACGCCCC-- 72
chr-B6.trna61-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAACGCCCC-- 72
chr-B7.trna16-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAACGCCCC-- 72
chr-B7.trna58-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B7.trna53-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B7.trna52-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B7.trna51-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B7.trna50-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B7.trna49-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B7.trna48-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B7.trna47-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B7.trna46-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B3.trna97-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B3.trna98-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B3.trna102-Pro-TGG    AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B5.trna40-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B5.trna42-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B7.trna55-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B5.trna43-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B7.trna56-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B6.trna5-Pro-TGG      AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B6.trna3-Pro-TGG      AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B7.trna54-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B1.trna40-Pro-CGG     AGAGGUCCCGAGUUCGAUUCUCGGAACACCCC-- 72
chr-B1.trna85-Pro-CGG     AGAGGUCCCGAGUUCGAUUCUCGGAACACCCC-- 72
chr-B1.trna88-Pro-CGG     AGAGGUCCCGAGUUCGAUUCUCGGAACACCCC-- 72
chr-B2.trna62-Pro-CGG     AGAGGUCCCGAGUUCGAUUCUCGGAACACCCC-- 72
chr-B8.trna83-Pro-CGG     AGAGGUCCCGAGUUCGAUUCUCGGAACACCCC-- 72
chr-B5.trna110-Pro-CGG    AGAGGUCCCGAGUUCGAUUCUCGGAACACCCC-- 72
chr-B5.trna120-Pro-CGG    AGAGGUCCCGAGUUCGAUUCUCGGAACACCCC-- 72
chr-B8.trna6-Pro-CGG      AGAGGUCCCGAGUUCGAUUCUCGGAACACCCC-- 72
chr-B8.trna138-Pro-TGG    AGAGGUCCCGAGUUCGAUUUUCGGAACGCCCC-- 72
chr-B1.trna31-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAACGCCCC-- 72
chr-B1.trna78-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAACGCCCC-- 72
chr-B8.trna62-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAACGCCCC-- 72
chr-B1.trna80-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAACGCCCC-- 72
chr-B5.trna96-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAACGCCCC-- 72
chr-B3.trna14-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAACGCCCC-- 72
chr-B3.trna77-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAACGCCCC-- 72
chr-B6.trna40-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAACGCCCC-- 72
chr-B7.trna15-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAACGCCCC-- 72
chr-B6.trna67-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAACGCCCC-- 72
chr-B1.trna18-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAAUGCCCC-- 72
chr-B5.trna102-Pro-AGG    AGAGGUCCCGAGUUCAAUUCUCGGAAUGCCCC-- 72
chr-B5.trna37-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAAUGCCCC-- 72
chr-B8.trna72-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAAUGCCCC-- 72
chr-B7.trna96-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAAUGCCCC-- 72
chr-B6.trna4-Pro-AGG      AGAGGUCCCGAGUUCAAUUCUCGGAAUGCCCC-- 72
chr-B7.trna86-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAAUGCCCC-- 72
chr-B6.trna77-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAAUGCCCC-- 72
chr-B5.trna41-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAAUGCCCC-- 72
chr-B7.trna12-Pro-AGG     AGAGGUCCCGAGUUCAAUUCUCGGAAUGCCCC-- 72
chr-B1.trna13-Pro-AGG     AGAGGUCCCGAGUUCAAUUUUCGGAACGCCCC-- 72
chr-B8.trna43-Pro-AGG     AGAGGUCCCGAGGUCAAUUCUCGGAACGCCCC-- 72
chr-B3.trna121-Pro-AGG    AGAGGUCCGGAGUUCAAUUCUCCGAAUGCCCC-- 72
chr-B3.trna100-Pro-AGG    AGAGGUCCCGAGUUCAAUUCUCGUAAUGCCCC-- 72
chr-B3.trna99-Pro-CGG     AGAGGUCCCGAGUUCAAUUCUCGGAAUGCCCC-- 72
chr-B5.trna38-Pro-TGG     AGAGGUCCCGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B5.trna39-Pro-TGG     AGAGUUCACGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B3.trna96-Pro-TGG     AGAGGUCGCGAGUUCGAUUCUUGGAAUGCCCC-- 72
chr-B2.trna1-Pro-AGG      AGAGGUCCCGAGUUCAAUUCUCGGAACGCCCC-- 72
chr-B3.trna95-Pro-AGG     AGAGGUCCUGAGUUGAAUUCUUGGAAUGCCCC-- 72
chr-B3.trna104-Pro-TGG    AGAGGUCCCAAGUUCGAUUCUCGGAAUGUCCC-- 72
chr-B7.trna145-Pro-AGG    AGUGGUCCCGAGUUCGAUCAUCGGAACGCCCC-- 72
chr-B3.trna101-Pro-TGG    AGAGGUAUAGAGUUCGAUUCUCGGAAUGCCCC-- 72
chr-B3.trna103-Pro-CGG    AGAGGUCCCGAGUUUAAUUCUCGGAAUGCCGCCA 74
chr-B3.trna79-Pro-TGG     AGAGGUCCCGAGUUUGAUCUUCGGAACACCCC-- 72
chr-B5.trna20-Pro-TGG     AGAGGACCCGAGUUUGACUCUCGGAUCUUUAU-- 77
chr-B5.trna87-Pro-TGG     GAGGGCCAUAGGUUCGAAUCCUGUCACCUUGA-- 75
chr-B7.trna57-Pro-TGG     AAAGGUGCCGAGUUUGAUUCUCGGAAUGCCUG-- 79
chr-B6.trna62-Pro-CGG     UUGAAAUCCGGGUUCAAUUCCCGGCAGCGGAA-- 92
                          .........70........80........90...
```