```
                          ..(((((((.........((....)).((((((((.........))))))..)))(((((
chr-C2.trna102-Pro-TGG    --GGGCGUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C7.trna153-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C1.trna91-Pro-TGG     --GGGCGUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C2.trna20-Pro-TGG     --GGGCGUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C2.trna123-Pro-TGG    --GGGCGUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C9.trna147-Pro-TGG    --GGGCGUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C9.trna105-Pro-TGG    --GGGCGUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna122-Pro-TGG    --GGGCGUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna199-Pro-TGG    --GGGCGUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C7.trna44-Pro-TGG     --GGGCGUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C7.trna77-Pro-TGG     --GGGCGUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna33-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna34-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna39-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna83-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna84-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C7.trna184-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna86-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna87-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna88-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C7.trna158-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna89-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna92-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C7.trna155-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna95-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna96-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C7.trna151-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C7.trna150-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna98-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna99-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna100-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna116-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C5.trna37-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C5.trna36-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna118-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna136-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna135-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna119-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna133-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna132-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna131-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna122-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna129-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna128-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna127-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna126-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna125-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna124-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCUGAG 52
chr-C4.trna123-Pro-TGG    --GGGCAUUU------GGUCUGGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C8.trna150-Pro-TGG    --GGGCGUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna115-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C7.trna180-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGUUGCGAGAGGUCCCGAG 52
chr-C3.trna101-Pro-TGG    --GGGCAUUU------UGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna130-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C7.trna183-Pro-TGG    --GGGCAUUU------GGUGUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna94-Pro-TGG     --UGGCAUUU------GGUCUAGUGGUAUGAUUUUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna91-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C7.trna192-Pro-TGG    --AGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C7.trna152-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCUCGUG 52
chr-C2.trna131-Pro-TGG    --GGGCGUUU------GGUCUAGUGGUAUGAUUUUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna90-Pro-TGG     --AGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C3.trna35-Pro-TGG     --GGACAUUU------GGUCCAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAAGUCCCGAG 52
chr-C4.trna134-Pro-TGG    --AGGCAUUU------UGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C5.trna35-Pro-TGG     --GGGCCUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGUUGCGAGAGGUCCCGAG 52
chr-C7.trna181-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C7.trna185-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGGUCCGAG 52
chr-C7.trna157-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C4.trna53-Pro-TGG     --GGGCAUUU------UGUGUAGUGGUAUGAUUCUCGCUUUGGAUGUGAGAGGUCCCGAG 52
chr-C7.trna193-Pro-TGG    --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGCUGCCAGAGGUCCCGAG 52
chr-C7.trna187-Pro-TGG    --GGGCAUUU------UUUCUAGUGGUAUGAUUCUCGCUUUGGGUGCUAGAGGUCCCGAG 52
chr-C3.trna38-Pro-TGG     --GGGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCAAGAGGUCCCAAG 52
chr-C7.trna188-Pro-TGG    --GGGGAUUU------GGUCCAGUGGUAUAAUUCUCGCUUUGGAUGCGAGAGGUCCCGAG 52
chr-C5.trna38-Pro-TGG     --GGGAAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUCCCGAG 52
chr-C7.trna156-Pro-TGG    --AGGCAUUG------GGCCUAGUGGUAUGAUUCUCGUUUUGGGUGCGAGAGGUCCCGUG 52
chr-C7.trna190-Pro-TGG    --GGGCAUUU------GGUCUAGUUGUAUGAUUUUCGCUUUGGGUGUGAGAGGUCCCGAG 52
chr-C7.trna191-Pro-TGG    --GAGCAUUU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCAAGAGGUCCCGAG 52
chr-C3.trna32-Pro-TGG     --GCAU--UU------GGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGAUCCUGAG 50
chr-C9.trna196-Pro-TGG    --AGGGAUUUAG----CGCAGCUUGGUAGCGCGUUUGUUUUGGGUACAAAAUAUCACGGG 54
chr-C9.trna35-Pro-TGG     --AGGGAUGUAA----CGCAGUUUGGUAGCGUGUUUGUUUUGGAUACAAAAUGUCACGGG 54
chr-C4.trna31-Pro-TGG     --AGGGAUGUAG----CGCAGCUUGGUAGCACGUUUGUUUUGGGUACAAAAUGUCACGGG 54
chr-C7.trna117-Pro-TGG    GCCCUGAGCUCAAUCUGGUCUAGUGGUAUGAUUCUCGCUUUGGGUGCGAGAGGUUCCGAG 60
                          .........10........20........30........40........50.........
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                          ........))))))........))))))...
chr-C2.trna102-Pro-TGG    UUC-GAUUCGCGGA--------ACGCCCC-- 72
chr-C7.trna153-Pro-TGG    UUC-GAUUCUUGGA--------AUGCCCC-- 72
chr-C1.trna91-Pro-TGG     UUC-GAUUCUCGGA--------ACGCCCC-- 72
chr-C2.trna20-Pro-TGG     UUC-GAUUCUCGGA--------ACGCCCC-- 72
chr-C2.trna123-Pro-TGG    UUC-GAUUCUCGGA--------ACGCCCC-- 72
chr-C9.trna147-Pro-TGG    UUC-GAUUCUCGGA--------ACGCCCC-- 72
chr-C9.trna105-Pro-TGG    UUC-GAUUCUCGGA--------ACGCCCC-- 72
chr-C3.trna122-Pro-TGG    UUC-GAUUCUCGGA--------ACGCCCC-- 72
chr-C3.trna199-Pro-TGG    UUC-GAUUCUCGGA--------ACGCCCC-- 72
chr-C7.trna44-Pro-TGG     UUC-GAUUCUCGGA--------ACGCCCC-- 72
chr-C7.trna77-Pro-TGG     UUC-GAUUCUCGGA--------ACGCCCC-- 72
chr-C3.trna33-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna34-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna39-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna83-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna84-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C7.trna184-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna86-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna87-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna88-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C7.trna158-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna89-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna92-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C7.trna155-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna95-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna96-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C7.trna151-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C7.trna150-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna98-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna99-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna100-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna116-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C5.trna37-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C5.trna36-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna118-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna136-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna135-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna119-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna133-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna132-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna131-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna122-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna129-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna128-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna127-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna126-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna125-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna124-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna123-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C8.trna150-Pro-TGG    UUU-GAUUCUCGGA--------ACGCCCC-- 72
chr-C4.trna115-Pro-TGG    UUU-GAUUCUCGGA--------AUGCCCC-- 72
chr-C7.trna180-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna101-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna130-Pro-TGG    UUC-GAAUCUCGGA--------AUGCCCC-- 72
chr-C7.trna183-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna94-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna91-Pro-TGG     UUC-GAUUCUCGUA--------AUGCCCC-- 72
chr-C7.trna192-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCG-- 72
chr-C7.trna152-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C2.trna131-Pro-TGG    CUC-GAUUAUCGGA--------ACGCCCC-- 72
chr-C3.trna90-Pro-TGG     UUC-GAUUCUAGGA--------AUGCCCC-- 72
chr-C3.trna35-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C4.trna134-Pro-TGG    UUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C5.trna35-Pro-TGG     UUU-GAUUCUCGGA--------AUGCCCC-- 72
chr-C7.trna181-Pro-TGG    UUC-GAUUCUCGGA--------AAACCCC-- 72
chr-C7.trna185-Pro-TGG    UUC-GAUUUUCGGA--------AUGCCCC-- 72
chr-C7.trna157-Pro-TGG    UUU-GAUUCUCGGA--------AUACCCA-- 72
chr-C4.trna53-Pro-TGG     UUC-UAUUCUCGGU--------AUGCCCC-- 72
chr-C7.trna193-Pro-TGG    UUU-GAUUCUUGGA--------AUGCCCC-- 72
chr-C7.trna187-Pro-TGG    UUU-GAUUCUCGGA--------AUGCCCC-- 72
chr-C3.trna38-Pro-TGG     UUC-GAUUUUCGGA--------AUGCCCC-- 72
chr-C7.trna188-Pro-TGG    AUC-GAUUCUCGGA--------AUGCCCC-- 72
chr-C5.trna38-Pro-TGG     UUC-GAUUCUCGGA--------AUGCCCCCA 74
chr-C7.trna156-Pro-TGG    UUC-GAUUCUCGGA--------AUACCCC-- 72
chr-C7.trna190-Pro-TGG    UUUAAAUUCUCGGA--------AUGCCUC-A 74
chr-C7.trna191-Pro-TGG    UUC-GAUUCUCGAA--------AUGCCCC-A 73
chr-C3.trna32-Pro-TGG     UUC-GAUUCACGGG--------GCAUGCA-- 70
chr-C9.trna196-Pro-TGG    UUC-AAAUCCUGUC--------AUCCCUA-- 74
chr-C9.trna35-Pro-TGG     UUC-AAAUCAUGUC--------AUCCCUA-- 74
chr-C4.trna31-Pro-TGG     UUC-AAAUCAUGUC--------AUCCCUA-- 74
chr-C7.trna117-Pro-TGG    UUC-GAUAUUCGGAGCGCCUCUUUUAGGGUU 90
                          .........70........80........90
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