```
                                 (((((((.((((.....)))).)).((.((((((.....)))))))))))).............
chr-LG23.trna15-Leu-TAA    GU-UAUG---CCUAAGUGGUUAAAGAGGUUGAAUUAAA-AUUCAUUGGGC-UUUGCCCAC 54
chr-LG12.trna18-Leu-TAG    GCCGCUAUGGUGAAAUUGGUAG-ACACGCUGCUCUUAGGAAGCAGUGC----UAGAGCAU 55
chr-LG13.trna2-Leu-TAG     GCCGCUAUGGUGAAAUUGGUAU-ACACGCUGCUCUUAGGAAGCAGUGC----AAGAGCAU 55
chr-LG7.trna37-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-LG11.trna8-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-LG14.trna29-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-LG20.trna1-Leu-CAA     GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-LG25.trna11-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-LG23.trna28-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUUCUCGUGAGAGAGC 59
chr-LG28.trna10-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCUUCGUGAGAGGGC 59
chr-LG23.trna16-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUUCUCGUAAGAGAGC 59
chr-LG14.trna22-Leu-CAA    GUCAGGAUGGCCGAG-UGGUCUAAGGCGCCAGACUCAAGUUCUGGUCCUCGUGAGAGGGC 59
chr-LG2.trna19-Leu-TAA     GCUGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-LG13.trna22-Leu-TAA    GGUGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-LG28.trna14-Leu-TAA    GGUGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-LG25.trna6-Leu-TAA     GCUGGUUUGCCCGAG-AGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUAAGUGCGC 58
chr-LG23.trna43-Leu-TAA    GGUGGUUUGCCCGAG-UGGU-UAAGGGGGAAGACUUAAGAUCUUCUGCACAUUAGUGCGC 58
chr-LG8.trna25-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-LG9.trna22-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-LG12.trna14-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-LG13.trna3-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-LG14.trna8-Leu-AAG     GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-LG29.trna25-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-LG15.trna19-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-LG17.trna21-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-LG18.trna24-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-LG19.trna11-Leu-AAG    GUUGAGAUGGCCGAGUUGGUCUAAGGCGCCAGAUUAAGGUUCUGGUCC----GAAAGGGC 56
chr-LG3.trna25-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-LG5.trna7-Leu-CAG      GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-LG8.trna14-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-LG12.trna11-Leu-CAG    GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-LG13.trna14-Leu-CAG    GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-LG27.trna5-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCGCCAGUUUCAGGUACUGGUCC----GAAAGGGC 56
chr-LG22.trna12-Leu-TAG    GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-LG7.trna9-Leu-TAG      GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-LG12.trna9-Leu-TAG     GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-LG12.trna10-Leu-TAG    GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-LG16.trna11-Leu-TAG    GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-LG22.trna14-Leu-TAG    GACAGUUUGGCCGAG-UGGUCUAAGGCGCCAGAUUUAGGCUCUGGUCC----GAAAGGGC 55
chr-LG17.trna3-Leu-CAG     GUCAAGAUGGCCGAGUUGGUCUAAGGCACCAGUUUCAGAUACUGGUCC----GAAAGGGC 56
chr-LG5.trna12-Leu-CAA     ---UGUUUAGUAUAG-UGGUAUGAUU-CUCGC-UUCAAAU-GUGAAUG---------GUC 44
chr-LG22.trna3-Leu-CAG     ---UGUUUAGUCUAG-UGGUAUGAUU-AUUGC-UUCAGCU-GUAAGAG---------GUU 44
chr-LG18.trna7-Leu-TAG     ---UGCUUGGUCUAG-UGGUAUGAUU-CUCGC-UUUAGAC-GCGAGAG---------GUU 44
chr-LG23.trna20-Leu-TAG    ---UGUUUAAUUUAG-UGGUUUGAGU-CUCGC-UUUAGGU-GCGAGAG---------AUC 44
chr-LG29.trna18-Leu-CAG    ---UAUUUAGUCUAG-UGGUAUGAUU-CUCGC-AUCAGGU-GCGAGAG---------AUC 44
chr-LG29.trna17-Leu-CAA    ---UGUUUGGUCUAG-UGGUAUAAUU-UUUGC-UUCAAGU-GCGAAAA---------GUC 44
chr-LG15.trna21-Leu-CAG    ---UGUUUGGUCUAG-UGGUAUGAUU-CUCAC-UUCAGGU-GUGAGAG---------GUC 44
chr-LG29.trna4-Leu-TAA     ---UGUUUGGUCUAG-UGGUAUGAUU-CUCGC-UUUAAGU-GUGAGAC---------GUC 44
chr-LG9.trna14-Leu-CAA     ---UGUUUGAUCUAG-UGGUAUGAUU-CUCGC-UUCAAGU-GUAAGAA---------AUC 44
chr-LG29.trna1-Leu-CAA     ---UGUUUGGUCUAG-UGGUAUGAUU-CUCGC-UUCAAGU-GCGAGAA---------CUC 44
chr-LG26.trna6-Leu-CAG     ---UGUUUGGUCUAA-UGGUAUGAUU-CUCGC-UUCAGGU-GCGAGAC---------GUC 44
chr-LG14.trna13-Leu-CAG    ---UGUUUGGUUUAG-UGGUAUGAUU-CUCGC-UUCAGGA---GAGAG---------AUC 42
chr-LG14.trna23-Leu-CAA    ---UGUUUGGUCUAG-UGGUAUGAUU-CUCGC-UUCAAGU-GUAAGAG---------GUC 44
chr-LG7.trna19-Leu-CAG     ---UGUUUGGUUUAG-UGGUAUAAUU-CUCAC-UUCAGGUGGCGAGGG---------GUC 45
chr-LG10.trna1-Leu-CAG     ---UGUUUGGUCUAG-UGGUAUGAUU-UUUGC-UUCAGGU-GCGA------------UU 40
chr-LG14.trna30-Leu-CAG    G--CUUUUGGUCUAG-UGGUAUGAUU-CUUGC-UUCAGGU-GCGAGAA---------GUU 45
chr-LG26.trna7-Leu-TAG     GAGUGUUUGGUCUAG-UGAUAUGAUU-CUCGC-UUUAGGU-GCAACAG---------GCC 47
chr-LG10.trna23-Leu-TAG    GGGCAUUUGGUCUAG-UGGUAUGAUU-CUCGC-UUUAGGU-GCCAGAG---------GUC 47
chr-LG5.trna11-Leu-CAG     AAGUGUUUGGUCUAG-UGGUAUGAUU-CUCGC-UUCAGGU-GCGAGAG---------GUU 47
chr-LG3.trna29-Leu-CAA     GAGUGUUUGGUCUAG-UGGUAUAAUU-CCCGC-UUCAAGU-GUGAGAG---------GUC 47
chr-LG10.trna2-Leu-CAA     GAGUAUUUGUUCUAG-UGGUAUGAUU-CUUGC-UUCAAGU-GCGAGAG---------GUC 47
chr-LG24.trna18-Leu-CAG    GACUGUUUGGUCUAA-UAGUAUGAUU-CUCGC-UUCAGGU-GUGAGAG---------GUC 47
chr-LG12.trna16-Leu-CAG    GAAUAUUUGGUCUAA-UGAUAUGAUU-AUCGC-UUCAGGU-GUGAAAG---------GUC 47
                           .........10........20........30........40........50.........
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                           (((((.........)))))))...))))))..
chr-LG23.trna15-Leu-TAA    ACAAGU--UCAAACCUUGUUA---UAGACG 79
chr-LG12.trna18-Leu-TAG    CUCGGU--UCGAGUCCGAGUGUUAGGUGCU 83
chr-LG13.trna2-Leu-TAG     CUCGGU--UCGAGUCCAAGUG---GCGGCA 80
chr-LG7.trna37-Leu-CAA     GUGGGU--UCAAAUCCCACUU---CUGACA 84
chr-LG11.trna8-Leu-CAA     GUGGGU--UCAAAUCCCACUU---CUGACA 84
chr-LG14.trna29-Leu-CAA    GUGGGU--UCAAAUCCCACUU---CUGACA 84
chr-LG20.trna1-Leu-CAA     GUGGGU--UCAAAUCCCACUU---CUGACA 84
chr-LG25.trna11-Leu-CAA    GUGGGU--UCAAAUCCCACUU---CUGACA 84
chr-LG23.trna28-Leu-CAA    GUGGGU--UCAAAUCCCACUU---CUGACA 84
chr-LG28.trna10-Leu-CAA    GUGGGU--UCAAAUCCCACUU---CUGACA 84
chr-LG23.trna16-Leu-CAA    GUGGGU--UCAAAUCCCACUU---CUGACA 84
chr-LG14.trna22-Leu-CAA    GUGGGUUUCUCAAAUCCCACUU---CUGACA 86
chr-LG2.trna19-Leu-TAA     AUGGGU--UCGAACCCCAUAG---CCAGCA 83
chr-LG13.trna22-Leu-TAA    GUGGGU--UCGAACCCCACAG---CCACCA 83
chr-LG28.trna14-Leu-TAA    GUGGGU--UCGAACCCCACAG---CCACCA 83
chr-LG25.trna6-Leu-TAA     AUGGGU--UCGAACCCCAUAG---CCAGCA 83
chr-LG23.trna43-Leu-TAA    GUGGGU--UCGAACCCCACAG---CCACCA 83
chr-LG8.trna25-Leu-AAG     GUGGGU--UCAAAUCCCACUC---UCAACA 81
chr-LG9.trna22-Leu-AAG     GUGGGU--UCAAAUCCCACUC---UCAACA 81
chr-LG12.trna14-Leu-AAG    GUGGGU--UCAAAUCCCACUC---UCAACA 81
chr-LG13.trna3-Leu-AAG     GUGGGU--UCAAAUCCCACUC---UCAACA 81
chr-LG14.trna8-Leu-AAG     GUGGGU--UCAAAUCCCACUC---UCAACA 81
chr-LG29.trna25-Leu-AAG    GUGGGU--UCAAAUCCCACUC---UCAACA 81
chr-LG15.trna19-Leu-AAG    GUGGGU--UCAAAUCCCACUC---UCAACA 81
chr-LG17.trna21-Leu-AAG    GUGGGU--UCAAAUCCCACUC---UCAACA 81
chr-LG18.trna24-Leu-AAG    GUGGGU--UCAAAUCCCACUC---UCAACA 81
chr-LG19.trna11-Leu-AAG    GUGGGU--UCAAAUCCCACUC---UCAACA 81
chr-LG3.trna25-Leu-CAG     AUGGGU--UCGAAUCCCAUUC---UUGACA 81
chr-LG5.trna7-Leu-CAG      AUGGGU--UCGAAUCCCAUUC---UUGACA 81
chr-LG8.trna14-Leu-CAG     AUGGGU--UCGAAUCCCAUUC---UUGACA 81
chr-LG12.trna11-Leu-CAG    AUGGGU--UCGAAUCCCAUUC---UUGACA 81
chr-LG13.trna14-Leu-CAG    AUGGGU--UCGAAUCCCAUUC---UUGACA 81
chr-LG27.trna5-Leu-CAG     AUGGGU--UCGAAUCCCAUUC---UUGACA 81
chr-LG22.trna12-Leu-TAG    GUGGGU--UCAAAUCCCACAG---CUGUCA 80
chr-LG7.trna9-Leu-TAG      GUGGGU--UCAAAUCCCACAG---CUGUCA 80
chr-LG12.trna9-Leu-TAG     GUGGGU--UCAAAUCCCACAG---CUGUCA 80
chr-LG12.trna10-Leu-TAG    GUGGGU--UCAAAUCCCACAG---CUGUCA 80
chr-LG16.trna11-Leu-TAG    GUGGGU--UCAAAUCCCACAG---CUGUCA 80
chr-LG22.trna14-Leu-TAG    GUGGGU--UCAAAUCCCACAG---CUGUCA 80
chr-LG17.trna3-Leu-CAG     AUGCGU--UCGAAUCCCAUUC---UUGCCA 81
chr-LG5.trna12-Leu-CAA     GCAAGU--UCAAUGCUUGCAAG--AG-GAA 69
chr-LG22.trna3-Leu-CAG     GCGAGU--UUGAUUCUUGCAAG--AG-GAA 69
chr-LG18.trna7-Leu-TAG     GCAAGU--UCGAUUCUUGCAAG--AG-AAA 69
chr-LG23.trna20-Leu-TAG    GCGAGU--UCGAUUCUCGCAAG--AG-GAA 69
chr-LG29.trna18-Leu-CAG    GCGAGU--UGGAUUCUCGUAAG--AG-GAA 69
chr-LG29.trna17-Leu-CAA    AUGAGU--UCGAUUCUCGCAAG--AG-AAA 69
chr-LG15.trna21-Leu-CAG    GUGAGU--UCAAUUCUCGCAAG--AG-GAA 69
chr-LG29.trna4-Leu-TAA     GCAAGU--UCAAUUCUCGCAAG--AG-GAA 69
chr-LG9.trna14-Leu-CAA     ACGAGU--UCGAUUCUCGUAAG--AG-UAA 69
chr-LG29.trna1-Leu-CAA     GCGAGU--UUGAUUCUUGCAAG--AG-GAA 69
chr-LG26.trna6-Leu-CAG     GCGAGU--UCGAUUCUUGCAAG--AG-AAA 69
chr-LG14.trna13-Leu-CAG    GUGAGU--UCAAUUCUCGCAAG--AG-GAA 67
chr-LG14.trna23-Leu-CAA    GCGAGU--UCAAUUCUCACAAG--AG-GAU 69
chr-LG7.trna19-Leu-CAG     GUGAGU--UCGAUUCUCGCAAG--AG-GAA 70
chr-LG10.trna1-Leu-CAG     GCGAGU--UCGAUUCUCGCAAG--AA-GAA 65
chr-LG14.trna30-Leu-CAG    -CGAGU--UCGAUUCUCGCAAG--CG-GUA 69
chr-LG26.trna7-Leu-TAG     GCGAGU--UCAAUUCUCGUAAC--ACCCCA 73
chr-LG10.trna23-Leu-TAG    CCGCGU--UCGAUUCUCGGAAU--GCCCC- 72
chr-LG5.trna11-Leu-CAG     GCAAAU--UCGAUUCUCAAAAC--AC-CCA 72
chr-LG3.trna29-Leu-CAA     GCGAGU--UCGAUUCUCACAAC--ACCCCA 73
chr-LG10.trna2-Leu-CAA     UUGAGU--UUGAUUCUCGCAAC--ACACCA 73
chr-LG24.trna18-Leu-CAG    GUGAGU--UCGAUUCUCGCAAC--ACCCCA 73
chr-LG12.trna16-Leu-CAG    GCGAGU--UCAAUUCUCGUAAC--A--CCU 71
                           .........70........80.........
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