```
                                                  ((.((.(((..(((.((.....)).))..)))(((((.......)))))).(.......)).
chr-LG20.trna20-Leu-TAG    GA-UA-GUUUGGCCGAGUGG-UCUAAGGUGCCAGAUUUAGGCUCUGGUUUGAAACCUGAA 57
chr-LG20.trna28-Leu-TAG    GA-UA-GUUUGGCCGAGUGG-UCUAAGGUGCCAGAUUUAGGCUCUGGUUUGAAACCUGAA 57
chr-LG09.trna199-Leu-TAG   GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCUGAA---AGGG 54
chr-LG15.trna191-Leu-TAG   GA-CA-AUUUGGCCAAGUGG-UCUAAGGUGCCAGAUUUAGGCUCUGGUUUGAA---AGGG 54
chr-LG09.trna120-Leu-TAG   GA-UA-GUUUGGCUGAGUGG-UCUAAGGCGCCAGAUUUAGGCUUUGGUCCAAA---AGGG 54
chr-LG15.trna185-Leu-TAG   GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUUUGGUUCGAA---AGGG 54
chr-LG09.trna277-Leu-TAG   GA-CA-AUUUGGCCGAGUGG-UCUAAGGCGCUAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG18.trna108-Leu-TAG   GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCUAGAUUUAGGCUCUAGUCCGAA---AGGG 54
chr-LG16.trna4-Leu-TAG     GA-CA-AUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGC 54
chr-LG15.trna179-Leu-TAG   GA-GA-GUUUGGCCGAGUGG-ACUAAGGCGCCAGAUUUAGGCUCUGGUCCAAA---AGGG 54
chr-LG03.trna335-Leu-TAG   GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG15.trna181-Leu-TAG   GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG04.trna135-Leu-TAG   GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG08.trna53-Leu-TAG    GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG08.trna54-Leu-TAG    GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG20.trna26-Leu-TAG    GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG09.trna198-Leu-TAG   GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG10.trna77-Leu-TAG    GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG15.trna176-Leu-TAG   GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG15.trna177-Leu-TAG   GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG20.trna7-Leu-TAG     GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG20.trna6-Leu-TAG     GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG15.trna178-Leu-TAG   GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG15.trna180-Leu-TAG   GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG15.trna182-Leu-TAG   GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG09.trna48-Leu-TAG    GA-CA-AUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG09.trna50-Leu-TAG    GA-CA-AUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG09.trna265-Leu-TAG   GA-CA-AUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG09.trna266-Leu-TAG   GA-CA-AUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG09.trna267-Leu-TAG   GA-CA-AUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG09.trna268-Leu-TAG   GA-CA-AUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG09.trna269-Leu-TAG   GA-CA-AUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
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chr-LG09.trna275-Leu-TAG   GA-CA-AUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG09.trna276-Leu-TAG   GA-CA-AUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG16.trna8-Leu-TAG     GA-CA-AUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG16.trna7-Leu-TAG     GA-CA-AUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG15.trna184-Leu-TAG   GA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG20.trna30-Leu-TAG    GA-UA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG20.trna22-Leu-TAG    GA-UA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG10.trna167-Leu-TAG   UA-CA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG15.trna187-Leu-TAG   GA-CA-GUUUGGCCGAGUGG-UUUAAGGCUCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG20.trna25-Leu-TAG    GA-CA-GUUUGGCCGAGUGA-UCUAAGGCGCUAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG05.trna142-Leu-TAG   GA-CA-AUUUGGUCGAGUGG-UCUAAGGUGCCAGAUUUAGGCUCUGGUUCGAA---AGGG 54
chr-LG10.trna72-Leu-TAG    GA-UA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG15.trna175-Leu-TAG   GA-UA-GUUUGGCCAAGUGG-UCUAAGGUGCCAGAUUUAGGCUCUGGUUUGAA---AGGG 54
chr-LG06.trna152-Leu-TAG   GU-CA-AGAUGGUCGAGUUGGUCUAAGGCGCCAGUUUUAGGUACUGGUCCAAA---AGGG 55
chr-LG09.trna49-Leu-TAG    GA-CA-AUUUGGCCGAGUGG-UCUAAGUUGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG15.trna186-Leu-TAG   GA-CA-AUUUGGUUGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG15.trna44-Leu-TAG    GA-UA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---UGGG 54
chr-LG20.trna24-Leu-TAG    GA-CA-GCUUGGCCGAGUGG-UCUAAGGCACCAAGUUUAGGCUCUGGUUUGAA---AGAC 54
chr-LG16.trna5-Leu-TAG     GA-CA-AUUUGGCCGAGUGG-UCUAUGGUGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG15.trna183-Leu-TAG   GA-UA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 54
chr-LG16.trna6-Leu-TAG     GA-CA-AUUUGGCUGAGUGG-UCUAAAGUGCCAGAUUUAGGCUCUAGUUUGAA---AGGG 54
chr-LG15.trna193-Leu-TAG   GGAUA-GUUUGGCCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUUCAAA---AGGG 55
chr-LG15.trna40-Leu-TAG    GA-UA-GUUUGGCCGAGUGG-UCUAAGGCACCAGAUUUAGGCUCUGGUCUGAG---AGGG 54
chr-LG09.trna124-Leu-TAG   GA-CA-GUUUGGCUGUUUGG-UCUAAGGAGCCAGAUUUAGGCUUUGGUCCAUA---AGGG 54
chr-LG09.trna123-Leu-TAG   GA-UA-GUUUGGUCGAGUGG-UCUAAGGCACCAAAUUUAGGCUUUGGUUUGAA---AGGG 54
chr-LG15.trna188-Leu-TAG   GA-CA-GUUUGGCCGAGUGA-GCUAUGGUGCCAGAUUUAGGCUCUGUUCCGAA---AGGG 54
chr-LG09.trna128-Leu-TAG   GA-GA-GUUUGGCCAAGUGG-UUUAAGGUGCCAGAUUUAGGCUCUGGUUCAAA---GGGG 54
chr-LG15.trna50-Leu-TAG    GA-UA-GUUUGGCCGAGUGG-UCUAAGGUGCUAGAUUUAGGCUCUGGUCUGUAUAUAAGG 57
chr-LG16.trna2-Leu-TAG     AA-CA-AUUUGGCCUAGUGU-UCUAAGGCGCUAGAUUUAGAUCUGGUCCAAA---AGGG 54
chr-LG10.trna73-Leu-TAG    GUCAAUUUUUUACCGAGUGG-UCUAAGGCGCCAGAUUUAGGCUCUGGUCCGAA---AGGG 56
chr-LG06.trna156-Leu-TAG   GU-UA-AGAUGGCCGAGUUUGUCUAAGGCGCUAGUUUUAGGUACUAGUCCGAA---AGGG 55
chr-LG15.trna189-Leu-TAG   CA-CA-GUUUGGCUGAGUUG-UUGAAGGCGCUAGAUUUAGGCUCUGGUAUAAA---AUUG 54
chr-LG15.trna47-Leu-TAG    GA-UA-GUUUGGCCUAGUGG-UCUAAGGUGCUAGAUUUAGUCUCUAGUUUAAA---AAGG 54
chr-LG15.trna46-Leu-TAG    GA-CA-GUUUGGCCAAGUGG-UCUAAGGUGCUAGAUUUAGG-UUCAA---------AAGG 47
chr-LG15.trna48-Leu-TAG    GA-UA-GUUUGGUUGAGUGG-UCAAAGGUGUCAGAUUUAGGAUUGA---------AAGG 48
chr-LG14.trna143-Leu-TAG   GU-UG-GUUUGCCCGAGAG--GUUAAGGGGGAAGACUUAGGAUCUUUCGCACAUAAGUGC 56
chr-LG14.trna179-Leu-TAG   GC-UC-GUUUGCCGGAAAG--GUUAAGGGGGAAAACUUAGGAUCUUCUGCACAUAAGUGC 56
chr-LG20.trna32-Leu-TAG    G------UUUGGUCGAGUGG-UCUAAGACGUCACAUUUAGACUCUGGUUUGAA---AGGG 50
chr-LG15.trna51-Leu-TAG    GA--AAGUUUGGCCGAGUGG-UUUAAGGCUUCAUAUUUAGGCUUUGAG---------- 45
chr-LG03.trna318-Leu-TAG   GGGCA-UUU-GGUCUAGU---GGUAUGAUUCUUGCUUUAGGUGCAAGA---------GG 45
chr-LG03.trna316-Leu-TAG   GGGCA-UUU-GGUCUAGU---GGUAUGAUUCUUGCUUUAGGUGCAAGA---------GG 45
chr-LG15.trna146-Leu-TAG   GGUCU-AUU-AACUUAGUUG-GUUAAAGUGUUGUGCUAGUAGUACGAA---------GG 47
                           .........10........20........30........40........50.........
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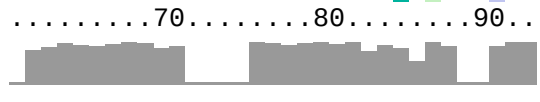

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                           ..(((((...........)))))))))).)).
chr-LG20.trna20-Leu-TAG    AGGU-UGUGAGUUUGAAUCCUAUAGCUG--UCA 87
chr-LG20.trna28-Leu-TAG    AGGU-UGUGAGUUUGAAUCCUAUAGCUG--UCA 87
chr-LG09.trna199-Leu-TAG   -CGUGGGUUCA----AAUCCCACAGCUG--UCA 80
chr-LG15.trna191-Leu-TAG   -CGUGGGUUCA----AAUCCCACAGUUG--UCA 80
chr-LG09.trna120-Leu-TAG   -UGUGGGUUCA----AAUCCCACAAUUG--UCA 80
chr-LG15.trna185-Leu-TAG   -CGUGGGUUCA----AAUCCCACAGCUG--UCA 80
chr-LG09.trna277-Leu-TAG   -CGUGGGUUCA----AAUCCCACAGUUG--UCA 80
chr-LG18.trna108-Leu-TAG   -CGUGGGUUCA----AAACCCACAGCUG--UCA 80
chr-LG16.trna4-Leu-TAG     -CGUGGGUUCA----AAUCCCACAGUUG--UCA 80
chr-LG15.trna179-Leu-TAG   -CGUGGGUUCA----AAUCCCACAACUC--UCA 80
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chr-LG20.trna26-Leu-TAG    -CGUGGGUUCA----AAUCCCACAGCUG--UCA 80
chr-LG09.trna198-Leu-TAG   -CGUGGGUUCA----AAUCCCACAGCUG--UCA 80
chr-LG10.trna77-Leu-TAG    -CGUGGGUUCA----AAUCCCACAGCUG--UCA 80
chr-LG15.trna176-Leu-TAG   -CGUGGGUUCA----AAUCCCACAGCUG--UCA 80
chr-LG15.trna177-Leu-TAG   -CGUGGGUUCA----AAUCCCACAGCUG--UCA 80
chr-LG20.trna7-Leu-TAG     -CGUGGGUUCA----AAUCCCACAGCUG--UCA 80
chr-LG20.trna6-Leu-TAG     -CGUGGGUUCA----AAUCCCACAGCUG--UCA 80
chr-LG15.trna178-Leu-TAG   -CGUGGGUUCA----AAUCCCACAGCUG--UCA 80
chr-LG15.trna180-Leu-TAG   -CGUGGGUUCA----AAUCCCACAGCUG--UCA 80
chr-LG15.trna182-Leu-TAG   -CGUGGGUUCA----AAUCCCACAGCUG--UCA 80
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chr-LG09.trna276-Leu-TAG   -CGUGGGUUCA----AAUCCCACAGUUG--UCA 80
chr-LG16.trna8-Leu-TAG     -CGUGGGUUCA----AAUCCCACAGUUG--UCA 80
chr-LG16.trna7-Leu-TAG     -CGUGGGUUCA----AAUCCCACAGUUG--UCA 80
chr-LG15.trna184-Leu-TAG   -CGUGGGUUCA----AAUCCCAUAGCUG--UCA 80
chr-LG20.trna30-Leu-TAG    -CGUGGGUUUA----AAUCCCACAGCUA--UCA 80
chr-LG20.trna22-Leu-TAG    -CGUGGGUUUA----AAUCCCACAGCUA--UCA 80
chr-LG10.trna167-Leu-TAG   -CGUGGGUUCA----AAUCCCACAGCUG--UCA 80
chr-LG15.trna187-Leu-TAG   -UGUGAGUUCA----AAUCUCACAGCUG--UCA 80
chr-LG20.trna25-Leu-TAG    -CGUGGGUUCA----AAUCCCACAGUUG--UUA 80
chr-LG05.trna142-Leu-TAG   -CGUGAGUUCA----AAUCCCACAAUUG--UCA 80
chr-LG10.trna72-Leu-TAG    -CGUAGAUUCA----AAUCCCACAGCUG--UCA 80
chr-LG15.trna175-Leu-TAG   -CGUGGAGUCA----AAUCCCAUAGCUG--UCA 80
chr-LG06.trna152-Leu-TAG   -CAUGGGUUCA----AAUCCCAUUCUUG--AUA 81
chr-LG09.trna49-Leu-TAG    -CGUGGGUUCA----AAUCCCACAGUUG--UCA 80
chr-LG15.trna186-Leu-TAG   -CGUGGGUUCA----AAUCCCACAGCUG--UCG 80
chr-LG15.trna44-Leu-TAG    -CGUCGGUUCA----AAUCCCAUAGCUG--UCA 80
chr-LG20.trna24-Leu-TAG    -CGUGGGUUCA----AAUCCCACAGUUG--UCA 80
chr-LG16.trna5-Leu-TAG     -CGUGGCUUCA----AAUUCCAUAGUUG--UCA 80
chr-LG15.trna183-Leu-TAG   -CGUGGGUUCAAAAUCAAUCCCACAGCUG--UCA 84
chr-LG16.trna6-Leu-TAG     -CGUGGGUACA----AAUCCCAAAGUUG--UCA 80
chr-LG15.trna193-Leu-TAG   -UGUGGGUUCA----AAUCCCACAGCUA--CCA 81
chr-LG15.trna40-Leu-TAG    -CGUGGGUUCAAA--UCCCCCAUAGCUG--UCA 82
chr-LG09.trna124-Leu-TAG   -CGUGGGUUUA----AAUCCCACAGCUA--UCA 80
chr-LG09.trna123-Leu-TAG   UUGUGGGUUUA----AAUCCCACAGCUA--UCA 81
chr-LG15.trna188-Leu-TAG   CAAUGGGUUUA----AAUCCCAUAGCUG--UCA 81
chr-LG09.trna128-Leu-TAG   -CGUGCGUUCA----AAUCCCACAGUUG--UCA 80
chr-LG15.trna50-Leu-TAG    GCGUGGGUUAA----AAUCCCACAACUA--UCA 84
chr-LG16.trna2-Leu-TAG     -UGUGCGUUCA----UAUCCCACAAUUG--UCA 80
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chr-LG15.trna46-Leu-TAG    GCAUGGAUUCA----AAUCCCACAGCUG--UCA 74
chr-LG15.trna48-Leu-TAG    GCAUGGGUUUA----AAUCCCAUAGUUG--UCA 75
chr-LG14.trna143-Leu-TAG   GAAUGGGUUCG----AACCCCAUAGCCA--GCA 83
chr-LG14.trna179-Leu-TAG   GCAUGGGUUCA----AACCCCAUGGCUA--GCA 83
chr-LG20.trna32-Leu-TAG    UUGUGGGUUCCCA--AAUCCCACGGCUGGUCCA 81
chr-LG15.trna51-Leu-TAG    -----GGUUCA----AAUCCCACAGUUG--UCA 67
chr-LG03.trna318-Leu-TAG   UCUCGAGUUUG----AUAACUAAGAGUGACCCA 74
chr-LG03.trna316-Leu-TAG   UCUCGAGUUUG----AUAACUAAGAGUGACCCA 74
chr-LG15.trna146-Leu-TAG   UUGCACGUUUG----AAACCUUGCAUGG-GCCA 75
                           .........70........80........90..
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