```
                                                  ((((((((((((.....))))))(((.(((((.......)))))).)).....))))))) 
chr-Lu11.trna63-Ile-AAT    GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGUGAAGG----UCGCAGGUU 56
chr-Lu4.trna43-Ile-AAT     UGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu6.trna59-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu9.trna57-Ile-AAT     GGCCUAUUAGCUCAGUUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu5.trna27-Ile-AAT     GGCCCAUUAGCUCAGUUGGUUAGAGCGUGGUGCUAAUAACGCCAAGG----UCACAGGUU 56
chr-Lu6.trna4-Ile-AAT      GGCCCAUUAGCUCAGUUGGUUAGAGCGUGGUGCUAAUAACGCCAAGG----UCACAGGUU 56
chr-Lu4.trna51-Ile-AAT     GGCCCAUUAGCUCAGUUGGUUAGAGCGUGGUGCUAAUAACGCCAAGG----UCAUAGGUU 56
chr-Lu1.trna109-Ile-AAT    GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu1.trna93-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu6.trna18-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGCGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu10.trna37-Ile-AAT    GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu12.trna14-Ile-AAT    GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu14.trna20-Ile-AAT    GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu3.trna37-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu4.trna26-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu1.trna49-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu9.trna51-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu5.trna23-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu5.trna49-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu9.trna82-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu13.trna57-Ile-AAT    GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu13.trna58-Ile-AAT    GGCCUAUUAGCUCAGCUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu8.trna28-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGAGCGCCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu9.trna52-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGAGCGUUGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu5.trna39-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGAGCGUUGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu8.trna30-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGAGCGUUGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu8.trna79-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGAGCGUCAUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu3.trna38-Ile-AAT     GGCCUAUUAGCUCAACUGGUUAGAGCGUCGUGCUAAUAACGCGAAGG----UCACAGGUU 56
chr-Lu11.trna78-Ile-TAT    GCUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGG----UCGCGGGUU 56
chr-Lu12.trna71-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGG----UCGCGGGUU 56
chr-Lu7.trna50-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGG----UCGCGGGUU 56
chr-Lu14.trna44-Ile-TAT    GCUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGG----UCGCGGGUU 56
chr-Lu15.trna3-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGG----UCGCGGGUU 56
chr-Lu15.trna9-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGG----UCGCGGGUU 56
chr-Lu15.trna54-Ile-TAT    GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGG----UCGCGGGUU 56
chr-Lu3.trna65-Ile-TAT     GGUCCCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGUCGAAGG----UCGCGGGUU 56
chr-Lu10.trna1-Ile-TAT     GGUCUCGUAGCUCAGUUGGUUAGAGCGUUGGUCUUAUGAGCCGAAGG----UCGCGGGUU 56
chr-Lu8.trna35-Ile-TAT     GGUCUCGUAGCUCAGUUGGUUAGAGUGUUGGUCUUAUGAGCCGAAGG----UCGUGGGUU 56
chr-Lu6.trna72-Ile-AAT     GGCCUAUUAGCUCAGCUGGUUAGGACGUUGUGCUAAUAACGCCAAGG----UGACAGGUU 56
chr-Lu10.trna32-Ile-AAT    GGCCUAUUAGCUCAGCUGUUUAGAGCGGCGUGCUAAUAUCGCGAAGA----UCACAGGCU 56
chr-Lu9.trna46-Ile-AAT     AGCUUAUUAGCUCAGUUGGUUAAAGUGUUGUGAUAAUAACGCAAAUG----UCACAAGUU 56
chr-Lu12.trna72-Ile-AAT    GGUAUAUUAGCUUAGUUGGUUUGAGCGUGAUGUUAAUAACGCCAAGG----UCAUAAGUU 56
chr-Lu2.trna16-Ile-GAT     AGGGAUAUAACUCAGCGG--UAGAGUGUCACCUUGAUGUGGUGGAAG----UCAUCAGUU 54
chr-Lu15.trna49-Ile-AAT    GCCUAUA-AGCUAAGUUGAUUAGAGCGUGGUGCUAAUAACGCCAAGA----UCGUAGGUU 55
chr-Lu5.trna51-Ile-TAT     GGAGCGGUGGCGCAGUUGGCUGGCGCGUAGGUCUUAUAAUCCUGACG----GCAAGCGUU 56
chr-Lu13.trna1-Ile-TAT     GCCCUUAUAGCUUAGAGG--UAGAACGUCAAUCUUAUAAAUUGAAGG----UUUGUAGUU 54
chr-Lu1.trna52-Ile-GAT     GUCACUUUGGCCGAG-UGGUUAAGGUGUGUGCCUGAUAAGUACAUGGGG-UUCCCCGUGA 58
chr-Lu5.trna20-Ile-GAT     GUCGCUUUGGCCGAG-UGGU-AAGGCGUGUGCCUGAUAAGUCAUGGGGUUUCCCCGCGA 58
                           .........10........20........30........40........50.........

                           ....)))))))....)))))))).
chr-Lu11.trna63-Ile-AAT    CGA-GACCUGC----AUGGGCCA 74
chr-Lu4.trna43-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu6.trna59-Ile-AAT     CGA-AACCUGU----AUAGGCCA 74
chr-Lu9.trna57-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu5.trna27-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu6.trna4-Ile-AAT      CGA-GACUUGU----AUGGGCCA 74
chr-Lu4.trna51-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu1.trna109-Ile-AAT    CGA-GACCUGU----AUGGGCCA 74
chr-Lu1.trna93-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu6.trna18-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu10.trna37-Ile-AAT    CGA-GACCUGU----AUGGGCCA 74
chr-Lu12.trna14-Ile-AAT    CGA-GACCUGU----AUGGGCCA 74
chr-Lu14.trna20-Ile-AAT    CGA-GACCUGU----AUGGGCCA 74
chr-Lu3.trna37-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu4.trna26-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu1.trna49-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu9.trna51-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu5.trna23-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu5.trna49-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu9.trna82-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu13.trna57-Ile-AAT    CGA-GACCUGU----AUGGGUCA 74
chr-Lu13.trna58-Ile-AAT    CGA-GACCUGU----AUGGGUCA 74
chr-Lu8.trna28-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu9.trna52-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu5.trna39-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu8.trna30-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu8.trna79-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu3.trna38-Ile-AAT     UGA-GACUUGU----AUGGGCCA 74
chr-Lu11.trna78-Ile-TAT    CGA-GCCCCGC----CGGGAGCA 74
chr-Lu12.trna71-Ile-TAT    CGA-GCCCCGC----CGGGACCA 74
chr-Lu7.trna50-Ile-TAT     CGA-GCCCCGC----CGGGACCA 74
chr-Lu14.trna44-Ile-TAT    CGA-GCCCCGC----CGGGAGCA 74
chr-Lu15.trna3-Ile-TAT     CGA-GCCCCGC----CGGGACCA 74
chr-Lu15.trna9-Ile-TAT     CGA-GCCCCGC----CGGGACCA 74
chr-Lu15.trna54-Ile-TAT    CGA-GCCCCGC----CGGGACCA 74
chr-Lu3.trna65-Ile-TAT     CGA-GCCCCGC----CGGGACCA 74
chr-Lu10.trna1-Ile-TAT     UGA-GCCCCGC----CGGGACCA 74
chr-Lu8.trna35-Ile-TAT     CAA-GCCCCGU----CGGGACCA 74
chr-Lu6.trna72-Ile-AAT     CGA-GACCUGU----AUGGGCCA 74
chr-Lu10.trna32-Ile-AAT    CGA-GACCUGU----AUGGGCCA 74
chr-Lu9.trna46-Ile-AAT     CAA-GACUUGU----GUGGGCUG 74
chr-Lu12.trna72-Ile-AAT    UGA-GAUUUGU----AUGAGCCA 74
chr-Lu2.trna16-Ile-GAT     CGA-GCCUGAU----UAUCCCUA 72
chr-Lu15.trna49-Ile-AAT    CGA-GACCUAUGUA-UAUGGACC 76
chr-Lu5.trna51-Ile-TAT     UGA-GCCUCUC----UCGCCCCA 74
chr-Lu13.trna1-Ile-TAT     UAA-UCCUACAUGAGAGAGAGCA 76
chr-Lu1.trna52-Ile-GAT     GAGUUUGAAUCAUUCAGGUGGUG 81
chr-Lu5.trna20-Ile-GAT     UAAUUCGAAUCUCUCAGGCGAAA 81
                           .........70........80..
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