```
                                 (((((((.((((.........)))).....(((((((.....)))))).)))))).....
chr-A1.trna16-Glu-CTC    UCCGUCGUAGUCUAGCUGGUUAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A9.trna123-Glu-CTC   UCCGUCGUAGUCUAGCUGGUUAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A3.trna80-Glu-CTC    UCCGUCGUAGUCUAGCUGGUUAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A7.trna95-Glu-CTC    UCCGUCGUAGUCUAGCUGGUUAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A5.trna85-Glu-CTC    UCCGUCGUAGUCUAGCUGGUUAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A9.trna63-Glu-CTC    UCCGUUGUAGUCUAGCUGGUUAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A7.trna27-Glu-CTC    UCCGUUGUAGUCUAGCUGGUUAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A1.trna6-Glu-CTC     UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A1.trna65-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A1.trna72-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A2.trna97-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A3.trna41-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A3.trna43-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A3.trna52-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A4.trna36-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A5.trna36-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A8.trna114-Glu-CTC   UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A8.trna96-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A8.trna94-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A8.trna71-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A6.trna24-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A7.trna50-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A7.trna62-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A8.trna15-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A7.trna86-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCUGAGAGACCCGGGUUCGAG 59
chr-A9.trna126-Glu-CTC   UCCGUCGUAGUCUAGCUGGUUAGGAUACUCAGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A1.trna74-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUCGGCUCUCA-CCCGAGAGACUCGGGUUCGAG 59
chr-A2.trna38-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCAGGAUACUAGGCUCUCA-CCCGAGAGACCCGGGUUCGAG 59
chr-A2.trna44-Glu-CTC    UCCGUUGUAGUCUAGCUGGUCUGGAUACUCGGCUCUCACCCCAAGAGACCCGGGUUCGAG 60
chr-A9.trna139-Glu-TTC   UCCGUUGUAGUCUAGCUGGUCAGGAUAUUCAGCUUUCA-UCCGAGAGACCCGGGUGCGAG 59
chr-A2.trna116-Glu-TTC   UCCGAUGUCGUCCAGC-GGUUAGUAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A3.trna93-Glu-TTC    UCCGAUGUCGUCCAGC-GGUUAGUAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A6.trna41-Glu-TTC    UCCGAUGUCGUCCAGC-GGUUAGGAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A1.trna33-Glu-TTC    UCCGAUGUCGUCCAGC-GGUUAGGAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A8.trna36-Glu-TTC    UCCGAUGUCGUCCAGC-GGUUAGGAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A10.trna24-Glu-TTC   UCCGAUGUCGUCCAGC-GGUUAGGAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A8.trna27-Glu-TTC    UCCGUUGUCGUCCAGC-GGUUAGGAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A2.trna77-Glu-TTC    UCCGAUGUCGUCCAGC-GGUUAGGAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A9.trna14-Glu-TTC    UCCGAUGUCGUCCAGC-GGUUAGGAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A2.trna96-Glu-TTC    UCCGUUGUCGUCCAGC-GGUUAGGAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A9.trna103-Glu-TTC   UCCGAUGUCGUCCAGC-GGUUAGGAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A7.trna61-Glu-TTC    UCCGUUGUCGUCCAGC-GGUUAGGAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A7.trna37-Glu-TTC    UCCGUUGUCGUCCAGC-GGUUAGGAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A6.trna12-Glu-TTC    UCCGUUAUCGUCCAGC-GGUUAGGAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A8.trna61-Glu-TTC    UCCGUUAUCGUCCAGC-GGUUAGGAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A3.trna121-Glu-TTC   UCCGAUGUCGUCCAGC-GGUUAGGAUAUCUGGCUUUCA-CCCAGGAGACCCGGGUUCGAU 58
chr-A3.trna47-Glu-TTC    GU--UCGUAGUCUAGCUGGUUAGGAUACUCAGCUUUCA-CCCGAGAGAC-CGGGUUCGAA 56
                         .........10........20........30........40........50.........

                                 .)))))))))..)).
chr-A1.trna16-Glu-CTC    UCCCGGCGACG--GAG 73
chr-A9.trna123-Glu-CTC   UCCCGGCGACG--GAG 73
chr-A3.trna80-Glu-CTC    UCCCGGCGACG--GAG 73
chr-A7.trna95-Glu-CTC    UCCCGGCGACG--GAG 73
chr-A5.trna85-Glu-CTC    UCCCGGCGACG--GAG 73
chr-A9.trna63-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A7.trna27-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A1.trna6-Glu-CTC     UCCCGGCAACG--GAG 73
chr-A1.trna65-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A1.trna72-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A2.trna97-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A3.trna41-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A3.trna43-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A3.trna52-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A4.trna36-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A5.trna36-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A8.trna114-Glu-CTC   UCCCGGCAACG--GAG 73
chr-A8.trna96-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A8.trna94-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A8.trna71-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A6.trna24-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A7.trna50-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A7.trna62-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A8.trna15-Glu-CTC    UCCCGGCAACG--GAG 73
chr-A7.trna86-Glu-CTC    UUCCGGCAACG--GAG 73
chr-A9.trna126-Glu-CTC   UCCCGGCGACG--GAG 73
chr-A1.trna74-Glu-CTC    UACCGGCAACG--GAG 73
chr-A2.trna38-Glu-CTC    UUCCGCCAACG--GAG 73
chr-A2.trna44-Glu-CTC    UUCCGGCAACG--GAG 74
chr-A9.trna139-Glu-TTC   UUCCGGCAACG--GAG 73
chr-A2.trna116-Glu-TTC   UACCGGCAUCG--GAG 72
chr-A3.trna93-Glu-TTC    UUCCGGCAUCG--GAG 72
chr-A6.trna41-Glu-TTC    UCCCGGCAUCG--GAG 72
chr-A1.trna33-Glu-TTC    UCCCGGCAUCG--GAG 72
chr-A8.trna36-Glu-TTC    UCCCGGCAUCG--GAG 72
chr-A10.trna24-Glu-TTC   UCCCGGCAUCG--GAG 72
chr-A8.trna27-Glu-TTC    UCCCGGCAACG--GAG 72
chr-A2.trna77-Glu-TTC    UCCCGGCAUCG--GAG 72
chr-A9.trna14-Glu-TTC    UCCCGGCAUCG--GAG 72
chr-A2.trna96-Glu-TTC    UCCCGGCAACG--GAG 72
chr-A9.trna103-Glu-TTC   UCCCGGCAUCG--GAG 72
chr-A7.trna61-Glu-TTC    UCCCGGCAACG--GAG 72
chr-A7.trna37-Glu-TTC    UCCCGGCAACG--GAG 72
chr-A6.trna12-Glu-TTC    UCCCGGUAACG--GAG 72
chr-A8.trna61-Glu-TTC    UCCCGGUAACG--GAG 72
chr-A3.trna121-Glu-TTC   UACCGGCAUCG--GAG 72
chr-A3.trna47-Glu-TTC    UCCCGACGAAGAAGCA 72
                         .........70.....
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