```
                                 (((((((((.(((((.((.(((.....((....)))))))))))).........((((....
chr-08.trna123-Val-AAC    GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUU 57
chr-01.trna69-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUU 57
chr-02.trna29-Val-AAC     GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAAUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-06.trna26-Val-AAC     GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAAUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-09.trna30-Val-AAC     GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAAUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-15.trna146-Val-AAC    GGUUUCGU-GGUGUAGU-UAGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-03.trna65-Val-AAC     GGUGUUGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-11.trna24-Val-AAC     GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-12.trna24-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-09.trna54-Val-AAC     GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-06.trna5-Val-AAC      GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-05.trna21-Val-AAC     GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-11.trna23-Val-AAC     GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-04.trna140-Val-AAC    GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-09.trna48-Val-AAC     GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-09.trna127-Val-AAC    GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-08.trna128-Val-AAC    GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-08.trna127-Val-AAC    GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-08.trna124-Val-AAC    GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-08.trna125-Val-AAC    GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-08.trna126-Val-AAC    GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-13.trna193-Val-AAC    GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-03.trna86-Val-AAC     GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-14.trna39-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-08.trna115-Val-AAC    GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-15.trna147-Val-AAC    GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-03.trna37-Val-AAC     GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-01.trna52-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-02.trna30-Val-AAC     GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-02.trna252-Val-AAC    GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-12.trna68-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-13.trna22-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-13.trna26-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-13.trna32-Val-AAC     GGUUUUGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-13.trna34-Val-AAC     GGUUUUGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-04.trna78-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-04.trna79-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-04.trna80-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-13.trna25-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-04.trna77-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUUCGG-UUC 57
chr-04.trna82-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUAAAGGUCUCCGG-UUC 57
chr-13.trna62-Val-AAC     GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACAUUGAAGGUCUCCGG-UUC 57
chr-13.trna33-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-03.trna66-Val-AAC     GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUAAAGGUCUCUGG-UUC 57
chr-13.trna23-Val-AAC     GGUUUCAU-GGUGUAGU-UGGUUAUCACAUCAGUCUAACACACUGAAGGUCUCUGG-UUC 57
chr-13.trna56-Val-AAC     GGUGUUGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUU 57
chr-04.trna83-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCAAG-UUC 57
chr-13.trna31-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACACCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-13.trna27-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCAC-UCAGUCUAACACACUGAAGGUCUCCGG-UUC 56
chr-13.trna30-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCAG-UUC 57
chr-04.trna81-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-13.trna28-Val-AAC     GGUUUUGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGG-CUCCGG-UUC 56
chr-02.trna256-Val-AAC    GGUGUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-04.trna84-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 57
chr-02.trna257-Val-AAC    GGUGUCAU-GGUGUAGU-UGGUUAUCAUGUCAGUCUAACACACUGAAGGUCUUCGG-UUC 57
chr-14.trna36-Val-AAC     GGUUUCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACAAACUAAAGGUCUCCGG-UUC 57
chr-04.trna172-Val-AAC    GGUUUCGUUGGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUUC 59
chr-13.trna24-Val-AAC     GGUUUCGU-GGUAUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUUCGG-UUC 57
chr-13.trna29-Val-AAC     GGUUUCGU-GGUAUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUUCGG-UUC 57
chr-09.trna31-Val-AAC     GGUGUUGU-GGUGUAGU-UGGCUAUCAUGUCAGUCUAACACACUGAAGGUCUCUGG-UUC 57
chr-03.trna64-Val-AAC     GGU-UCGU-GGUGUAGU-UGGUUAUCACGUCAGUCUAACACACUGAAGGUCUUCGG-UUC 56
chr-08.trna109-Val-AAC    GGUGUCGU-GGUGUAG--UGGUUAUCACGUCAGUUAACACACUGAAGGUCUCUGG-UUU 56
chr-07.trna76-Val-AAC     UGUUUCGU-GGUGUAGUAUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGG-UUC 58
chr-01.trna80-Val-AAC     GAUUUUGU-GGUGUAGU-UGGUUAUCACAUCAGUCUAACACACUGAAGGUCUUUGG-UUC 57
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chr-08.trna123-Val-AAC    GAGUCCG-GGCGAAGCCA 74
chr-01.trna69-Val-AAC     GAGUCCG-GGCGAAGCCA 74
chr-02.trna29-Val-AAC     GAGUCCG-GGCGACGCCA 74
chr-06.trna26-Val-AAC     GAGUCCG-GGCGACGCCA 74
chr-09.trna30-Val-AAC     GAGUCCG-GGCGACGCCA 74
chr-15.trna146-Val-AAC    GAGUCCG-GGCGAAGCCA 74
chr-03.trna65-Val-AAC     GAGUCCG-GGCGACGCCA 74
chr-11.trna24-Val-AAC     GAGUCCG-GGCGACGCCA 74
chr-12.trna24-Val-AAC     GAGUCCG-GGCGAAGCCA 74
chr-09.trna54-Val-AAC     GAGUCCG-GGCGACGCCA 74
chr-06.trna5-Val-AAC      GAGUCCG-GGCGACGCCA 74
chr-05.trna21-Val-AAC     GAGUCCG-GGCGACGCCA 74
chr-11.trna23-Val-AAC     GAGUCCG-GGCGACGCCA 74
chr-04.trna140-Val-AAC    GAGUCCG-GGCGACGCCA 74
chr-09.trna48-Val-AAC     GAGUCCG-GGCGACGCCA 74
chr-09.trna127-Val-AAC    GAGUCCG-GGCGACGCCA 74
chr-08.trna128-Val-AAC    GAGUCCG-GGCGAAGCCA 74
chr-08.trna127-Val-AAC    GAGUCCG-GGCGAAGCCA 74
chr-08.trna124-Val-AAC    GAGUCCG-GGCGAAGCCA 74
chr-08.trna125-Val-AAC    GAGUCCG-GGCGAAGCCA 74
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chr-13.trna193-Val-AAC    GAGUCCG-GGCGACGCCA 74
chr-03.trna86-Val-AAC     GAGUCCG-GGCGACGCCA 74
chr-14.trna39-Val-AAC     GAGUCCG-GGCGAAGCCA 74
chr-08.trna115-Val-AAC    GAGUCCG-GGCGACGCCA 74
chr-15.trna147-Val-AAC    GAGUCCG-GGCGAAGCCA 74
chr-03.trna37-Val-AAC     GAGUCCG-GGCGACGCCA 74
chr-01.trna52-Val-AAC     GAGUCCG-GGCGAAGCCA 74
chr-02.trna30-Val-AAC     GAGUCCG-GGCGACGCCA 74
chr-02.trna252-Val-AAC    GAGUCCG-GGCGAAGCCA 74
chr-12.trna68-Val-AAC     AAGUCCG-GGCGAAGCCA 74
chr-13.trna22-Val-AAC     AAGUCCG-GGCGAAGCCA 74
chr-13.trna26-Val-AAC     AAGUCCG-GGCGAAGCCA 74
chr-13.trna32-Val-AAC     AAGUCCG-GGCGAAGCCA 74
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chr-04.trna77-Val-AAC     AAGUCCG-GGCGAAGCCA 74
chr-04.trna82-Val-AAC     AAGUCCG-GGCGAAGCCA 74
chr-13.trna62-Val-AAC     AAGUCUG-GGCGACGCCA 74
chr-13.trna33-Val-AAC     AUGUUCG-GACGAAGCCA 74
chr-03.trna66-Val-AAC     GAGUCCG-GGCGACGCCA 74
chr-13.trna23-Val-AAC     AAGUCCG-GGUGAAGCCA 74
chr-13.trna56-Val-AAC     GAGUCCG-GGUGACGCCA 74
chr-04.trna83-Val-AAC     AAGUCCG-GGCGAAGCCA 74
chr-13.trna31-Val-AAC     AAGUCUG-GGCGAAGCCA 74
chr-13.trna27-Val-AAC     AAGUCCG-GGCGAAGCCA 73
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chr-04.trna81-Val-AAC     AAGUCCA-GGCGAAGCCA 74
chr-13.trna28-Val-AAC     AAGUCCG-GGCGAAACCA 73
chr-02.trna256-Val-AAC    GAGUCCG-GGCUACGCCA 74
chr-04.trna84-Val-AAC     AAGUCCG-GGCAAAGCCA 74
chr-02.trna257-Val-AAC    GAGUCCG-AGCAACGCCA 74
chr-14.trna36-Val-AAC     GAGUCCG-GGCGAAGCCA 74
chr-04.trna172-Val-AAC    AAGUCCG-GGCGAAGCCA 76
chr-13.trna24-Val-AAC     AUGUUCG-GGCGAAGCCA 74
chr-13.trna29-Val-AAC     AUGUUCG-GGCGAAGCCA 74
chr-09.trna31-Val-AAC     AAGUACG-GGCGAUACCA 74
chr-03.trna64-Val-AAC     GAGUCCG-GGCGAUGCCA 73
chr-08.trna109-Val-AAC    GAGUCCG-GGCGACGCCG 73
chr-07.trna76-Val-AAC     GAAGUCC-UGCGAAGCCU 75
chr-01.trna80-Val-AAC     AAGUCUGAGUUGAAGCCA 75
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