```
                                                  ((((((((((..((((((..(((...(((((.......)))))..)))..))))))...)
chr-7.trna101-Val-CAC    GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUCGAA 60
chr-3.trna118-Val-CAC    GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUCGAA 60
chr-8.trna16-Val-CAC     GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCAGUUCGAA 60
chr-3.trna119-Val-CAC    GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUCGAA 60
chr-8.trna75-Val-CAC     GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUCGAA 60
chr-2.trna112-Val-CAC    GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCAGUUCGAA 60
chr-5.trna68-Val-CAC     GUCUGGGUGGUGUAGUUGGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGGUUCGAA 60
chr-7.trna94-Val-CAC     GUCUGGGUGGUGUAGUUGGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCAGUUCGAA 60
chr-7.trna100-Val-CAC    GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUCUCACACACUAGAGGUCCCCGAUUCAAA 60
chr-6.trna8-Val-AAC      GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUUGAA 60
chr-6.trna13-Val-AAC     GGUUUUGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCAGUUUGAA 60
chr-7.trna95-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCCCCAGUUCUAG 60
chr-5.trna88-Val-AAC     GGUGUUGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCAAG 60
chr-5.trna93-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAG 60
chr-8.trna121-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUUACGUCAGUCUAACACACUGAAGGUCCCCAGUUCGAG 60
chr-8.trna114-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCCCCAGUUCGAG 60
chr-8.trna22-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCCCCAGUUCGAG 60
chr-5.trna22-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCCCCAGUUCGAG 60
chr-8.trna21-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCCCCAGUUCGAG 60
chr-7.trna79-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCCCCAGUUCGAG 60
chr-1.trna79-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-2.trna3-Val-AAC      GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-4.trna73-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-4.trna90-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-4.trna91-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-8.trna102-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-4.trna137-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-6.trna38-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-6.trna40-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-7.trna61-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCUCCGGUUCGAA 60
chr-8.trna120-Val-AAC    GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCCCCAGUUCAAA 60
chr-8.trna12-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUCUAACACACUGAAGGUCCCCAGUUCAAA 60
chr-7.trna90-Val-CAC     GUCUGGGUGGUGUAGUUGGUUAUCACGUUAGUCUCACACACUAAAGGUCCCCAGUUCGAA 60
chr-3.trna125-Val-TAC    GUUGCUGUGGUGUAGU-GGUUAUCACGUCAGUCUUACACACUGAAGGUCUCCAGUUCGAU 59
chr-2.trna34-Val-TAC     GUUGCUGUGGUGUAGU-GGUUAUCACGUCAGUCUUACACACUGAAGGUCUCCAGUUCGAU 59
chr-3.trna25-Val-TAC     GUUGCUGUGGUGUAGU-GGUUAUCACGUCAGUCUUACACACUGAAGGUCUCCAGUUCGAU 59
chr-4.trna138-Val-TAC    GUUGCUGUGGUGUAGU-GGUUAUCACGUCAGUCUUACACACUGAAGGUCUCCAGUUCGAU 59
chr-4.trna54-Val-TAC     GUUGCUGUGGUGUAGU-GGUUAUCACGUCAGUCUUACACACUGAAGGUCUCCAGUUCGAU 59
chr-1.trna93-Val-TAC     GUUGCUGUGGUGUAGU-GGUUAUCACGUUAGUCUUACACACUAAAGGUCUCCAGUUCGAU 59
chr-2.trna41-Val-TAC     GUUGCUGUGGUGUAGU-GGUUAUCACGUUAGUCUUACACACUAAAGGUCUCCAGUUCGAU 59
chr-2.trna110-Val-TAC    GUUGCUGUGGUGUAGU-GGUUAUCACGUUAGUCUUACACACUAAAGGUCUCCAGUUCGAU 59
chr-4.trna64-Val-TAC     GUUGCUGUGGUGUAGU-GGUUAUCACGUUAGUCUUACACACUAAAGGUCUCCAGUUCGAU 59
chr-2.trna77-Val-TAC     GUUGAUGUGGUGUAGU-GGUUAUCACGUUAGUUUACACACUAAAGGUCUCUAGUUCGAU 59
chr-7.trna106-Val-GAC    AGGGGUAUAACUCAGC--GGUAGAGUUUCACCUUGACGUGGUGGAAGUCAUCGGUUCAAA 58
chr-7.trna107-Val-GAC    AGGGGUAUAACUCAGC--GGUAGAGUUUCACCUUGACGUGGUGGAAGUCAUCGGUUCGAA 58
chr-2.trna92-Val-GAC     AGGGGUAUAACUCAGC--GGUAGAGUGUCACCUUGACGUGGUGGAAGUCAUCGGUUCGAA 58
chr-3.trna139-Val-GAC    AGGGGUAUAACUCAGC--GGUAGAGUGUCACCUUGACGUGGUGGAAGUCAUCGGUUCGAA 58
chr-4.trna24-Val-GAC     AGGGGUAUAACUCAGC--GGUAGAGUGUCACCUUGACGUGGUGGAAGUCAUCGGUUCGAA 58
                         .........10........20........30........40........50.........

                         )).....)))))))).
chr-7.trna101-Val-CAC    CCCGGGCUCAGACA 74
chr-3.trna118-Val-CAC    CCCGGGCUCAGACA 74
chr-8.trna16-Val-CAC     CCUGGGCUCAGACA 74
chr-3.trna119-Val-CAC    CCCGGGCUCAGACA 74
chr-8.trna75-Val-CAC     CCCGGGCUCAGACA 74
chr-2.trna112-Val-CAC    CCUGGGUUCAGACA 74
chr-5.trna68-Val-CAC     CCCGGGCUCAGACA 74
chr-7.trna94-Val-CAC     CCUGGGCUCAGACA 74
chr-7.trna100-Val-CAC    CCCGGGCUCAGACA 74
chr-6.trna8-Val-AAC      CCUGGGCGAAGCCA 74
chr-6.trna13-Val-AAC     CCCGGGCGAAGCCA 74
chr-7.trna95-Val-AAC     CCUGGGCGAAGCCA 74
chr-5.trna88-Val-AAC     UCCGGGCGACGCCA 74
chr-5.trna93-Val-AAC     UCCGGGCGAAGCCA 74
chr-8.trna121-Val-AAC    CCUGGGCGAAGCCA 74
chr-8.trna114-Val-AAC    CCUGGGCGAAGCCA 74
chr-8.trna22-Val-AAC     CCUGGGCGAAGCCA 74
chr-5.trna22-Val-AAC     CCUGGGCGAAGCCA 74
chr-8.trna21-Val-AAC     CCUGGGCGAAGCCA 74
chr-7.trna79-Val-AAC     CCUGGGCGAAGCCA 74
chr-1.trna79-Val-AAC     CCCGGGCGAAGCCA 74
chr-2.trna3-Val-AAC      CCCGGGCGAAGCCA 74
chr-4.trna73-Val-AAC     CCCGGGCGAAGCCA 74
chr-4.trna90-Val-AAC     CCCGGGCGAAGCCA 74
chr-4.trna91-Val-AAC     CCCGGGCGAAGCCA 74
chr-8.trna102-Val-AAC    CCCGGGCGAAGCCA 74
chr-4.trna137-Val-AAC    CCCGGGCGAAGCCA 74
chr-6.trna38-Val-AAC     CCCGGGCGAAGCCA 74
chr-6.trna40-Val-AAC     CCCGGGCGAAGCCA 74
chr-7.trna61-Val-AAC     CCCGGGCGAAGCCA 74
chr-8.trna120-Val-AAC    CCUGGGCGAAGCCA 74
chr-8.trna12-Val-AAC     CCUGGGCGAAGCCA 74
chr-7.trna90-Val-CAC     CCUGGGCUCAGACA 74
chr-3.trna125-Val-TAC    CCUGGGCAGCAAUA 73
chr-2.trna34-Val-TAC     CCUGGGCAGCAACA 73
chr-3.trna25-Val-TAC     CCUGGGCAGCAACA 73
chr-4.trna138-Val-TAC    CCUGGGCAGCAACA 73
chr-4.trna54-Val-TAC     CCUGGGUAGCAACA 73
chr-1.trna93-Val-TAC     CCUGGGCAGCAACA 73
chr-2.trna41-Val-TAC     CCUGGGCAGCAACA 73
chr-2.trna110-Val-TAC    CCUGGGCAGCAACA 73
chr-4.trna64-Val-TAC     CCUGGACAGCAACA 73
chr-2.trna77-Val-TAC     CUUGGGCAGCAACA 73
chr-7.trna106-Val-GAC    UCUGAUUAUCCCUA 72
chr-7.trna107-Val-GAC    UCUGAUUAUCCCUA 72
chr-2.trna92-Val-GAC     UCUGAUUAUCCCUA 72
chr-3.trna139-Val-GAC    UCUGAUUAUCCCUA 72
chr-4.trna24-Val-GAC     UCUGAUUAUCCCUA 72
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