```
                          (((((((..(((...........))).(((((........)))))).....(((((...
chr-2.trna104-Val-CAC     GUCUGGGUGGUGUAGUUGGUUAUCACGAUAGUC-UCACACACUAGAGG--UCCCCGGUUC 57
chr-8.trna120-Val-CAC     GUCUGGGUGGUGUAGUUGGUUAUCACGCUAGUC-UCACACACUAGAGG--UCCCCGGUUC 57
chr-9.trna63-Val-CAC      GUCUGGGUGGUGUAGUUGGUUAUCACGCUAGUC-UCACACACUAGAGG--UCCCCGGUUC 57
chr-9.trna64-Val-CAC      GUCUGGGUGGUGUAGUUGGUUAUCACGCUAGUC-UCACACACUAGAGG--UCCCCGGUUC 57
chr-10.trna75-Val-CAC     GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUC-UCACACACUAGAGG--UCCCCGGUUC 57
chr-4.trna44-Val-CAC      GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUC-UCACACACUAGAGG--UCCCCGGUUC 57
chr-8.trna62-Val-CAC      GUCUGGGUGGUGUAGUCGGUUAUCACGCUAGUC-UCACACACUAGAGG--UCCCCGGUUC 57
chr-1.trna194-Val-CAC     GUCUGGGUGGUGUAGUUUGUUAUCACGCUAGUC-UCACACACUAGAGG--UCCCCGGUUU 57
chr-10.trna14-Val-CAC     GUUUGGGUGGUGUAGUCGGUUAUCACACUAGUC-UCACACACUAGAGG--UCCUCGAUCC 57
chr-9.trna9-Val-CAC       GGUGACGUGGUGUAGUUGGUUAUCACGUCAGUC-UCACACACUGAAGG--UCUCCGAUUC 57
chr-6.trna65-Val-AAC      GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUC-UAACACUCUGAAGG--UCUCCGGUUC 57
chr-6.trna69-Val-AAC      GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUC-UAACACACUGAAGG--UCUCCGGUUC 57
chr-1.trna6-Val-AAC       GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUC-UAACACACUGAAGG--UCUCCGGUUC 57
chr-6.trna62-Val-AAC      GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUC-UAACACACUGAAGG--UCUCCGGUUC 57
chr-6.trna66-Val-AAC      GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUC-UAACACACUGAAGG--UCUCCGGUUC 57
chr-6.trna67-Val-AAC      GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUC-UAACACACUGAAGG--UCUCCGGUUC 57
chr-8.trna4-Val-AAC       GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUC-UAACACACUGAAGG--UCUCCGGUUC 57
chr-8.trna69-Val-AAC      GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUC-UAACACACUGAAGG--UCUCCGGUUC 57
chr-8.trna102-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUC-UAACACACUGAAGG--UCUCCGGUUC 57
chr-8.trna113-Val-AAC     GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUC-UAACACACUGAAGG--UCUCCGGUUC 57
chr-9.trna37-Val-AAC      GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUC-UAACACACUGAAGG--UCUCCGGUUC 57
chr-10.trna51-Val-AAC     GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUC-UAACACACUGAAGG--UCUCCGGUUC 57
chr-1.trna11-Val-AAC      GGUGUCGUGGUGUAGUUGGUUAUCAUGUCAGUC-UAACACACUGAAGG--UCUCCGGUUC 57
chr-1.trna53-Val-AAC      GGUGUCGUGGUGUAGUUGGUUAUCACGUCAGUC-UAACACACUGAAGG--UCUCCGGUUC 57
chr-1.trna177-Val-AAC     GGUUUCGUGGUGUAGUUGGUUAUCACGUCAGUC-UAACACACUGAAGG--UCGCCGGUUC 57
chr-12.trna18-Val-AAC     GGUUUCGUGGCGUAGUUGGUUAUCACGUCAAUC-UAACACACUGAAGG--UCUCCGGUAU 57
chr-1.trna29-Val-TAC      GUUGCUGUGGUGUAGU-GGUUAUCACGUUAGUC-UUACACACUAAAGG--UCCCCAGUUC 56
chr-10.trna116-Val-TAC    GUUGCUGUGGUGUAGU-GGUUAUCACGUUAGUC-UUACACACUAAAGG--UCCCCAGUUC 56
chr-9.trna34-Val-TAC      GUUGCUGUGGUGUAGU-GGUUAUCACGUUAGUC-UUACACACUAAAGG--UCCCCAGUUC 56
chr-10.trna101-Val-TAC    GUUGCUGUGGUUGUAGU-GGUUAUCACGUUAGUC-UUACACACUAAAGG--UCCCCAGUUU 56
chr-3.trna1-Val-TAC       GUUGCUGUGGUGUAGU-GGUUAUCACGUCAGUC-UUACACACUGAAGG--UCCCCAGUUC 56
chr-11.trna7-Val-TAC      GUUGGUGUGGUGUAGU-GGUUAUCACGUCAGUC-UUACACACUGAAGG--UCCCCAGUUC 56
chr-11.trna6-Val-TAC      GUUGGUGUGGUGUAGU-GGUUAUCACGUCAGUC-UUACACACUGAAGG--UCCCCAGUUC 56
chr-1.trna3-Val-CAC       GUCUGGGUGGUGUAGUUGGUUAUCACGCUAGUC-UCACACACUAGUGGUCUCCCCGGUUC 59
chr-1.trna75-Val-AAC      GGUGUCGUGGUGUAGCUUGUUAUCACAUCAGUCUUAACACAACGAAGG--UCUCCGGUUC 58
chr-10.trna59-Val-TAC     G-UGGUGUAGUG------GUUAUCACGUCAGUC-UUACACACGGAAGG--UCUCCAGUUC 50
chr-10.trna102-Val-GAC    AGGGCUAUAACUCAGC--GGUAGAGUGUUACCU-UGACGUGGUGGAAA--UCAUCAGUUC 55
chr-10.trna91-Val-GAC     AGAGAUAUAACUCAGC--GGUAGAGUGUCACCU-UGACGUGGUGGAAA--UCAUUAGUUC 55
chr-8.trna138-Val-GAC     AGGGAUAUAACUCAGC--GGUAGAGUGUCACCU-UGACGUGGUGGAAG--UCAUCAGUUC 55
chr-11.trna107-Val-GAC    AGGGAUAUAACUCAGC--GGUAGAGUGUCACCU-UGACGUGGUGGAAG--UCAUCAGUUC 55
chr-10.trna121-Val-GAC    AGGGAUAUAACUCAGC--GGUAGAGUGUCACCU-UGACGUGAUGGAAG--UCAUCAGUUC 55
chr-6.trna26-Val-GAC      AGGGAUAUAACUCAGC--GGUAGAGUGUCACGU-UGACGUGGUGGAAG--UCAUCAGUUC 55
chr-2.trna28-Val-GAC      AGGGAUAUAACUCAGC--GGUAGAGUGUCACCU-UGACGUGGUGGAAG--UCAUCAGUUC 55
chr-6.trna131-Val-GAC     AGGGAUAUAACUCAGC--GGUAUAGUGUCACCU-UGACGUGGUGGAAG--UCAUCAGUUC 55
chr-8.trna54-Val-GAC      AGGGAUAUAACUCAGC--GGUAGAGUGUCACCU-UGACGUGGUGGAAG--UCAUCAGUUC 55
chr-1.trna77-Val-GAC      AGGGAUAUAACUUAGC--GGUAGAGUGUCACCU-UGACGUGGUGGAAG--UCAUCAGUUC 55
chr-2.trna78-Val-AAC      AGGGAUAUAACUCAGC--GGUAGAGUGUCACCU-UAACGUGGUGGAAG--UCAUCAGUUC 55
chr-1.trna166-Val-GAC     AGGGAUAUAACUCAGC--GGUAGAGUGUCACCU-UGACGUGGUGGAAU--UCAUUAGUUC 55
chr-11.trna122-Val-GAC    AGGGAUAUAACUCAGC--GGUAGAGUUUCACCU-UGACAUGGUGGAAG--UCAUCAGUUC 55
chr-9.trna42-Val-GAC      AGGGAUAUAACUGAGC--GGUAGAGUGUCACCU-UGACGUGGUGGAAG--UCAUCAGUUC 55
chr-10.trna12-Val-GAC     AGUGAUAUAACUCAGC--GGUAGAGUGUCACCU-UGACGUGGUGGAAG--UCAUCAGUUU 55
chr-11.trna52-Val-GAC     AGGGAUAUAACUCAGC--GGUAGAGUGUCACAU-UGACGUGGUGGAUG--UCAUCAGUUU 55
chr-7.trna30-Val-AAC      AGGGAUAUAACGCAGU--GGUAGAGUGUCACCU-UAACGUCGUGGAAG--UCAUCAGUUC 55
chr-3.trna131-Val-AAC     GCUUUUAUAGUAUAGA-GAUGAGUAUUCCUACC-UAACAUGCGGGUGA---CCCAGGUUU 55
chr-9.trna27-Val-GAC      GUUGUGGUUUAGUGGUUCAAUGAAGUUGGGUUGACCACCAUAUGA-----UCUUAGGUUC 55
                          .........10........20........30........40........50.........

                          ....))))))))))))).
chr-2.trna104-Val-CAC     AAACCCGGGCUCAGACA 74
chr-8.trna120-Val-CAC     GAACCCGGGCUCAGACA 74
chr-9.trna63-Val-CAC      GAACCCGGGCUCAGACA 74
chr-9.trna64-Val-CAC      GAACCCGGGCUCAGACA 74
chr-10.trna75-Val-CAC     GAACCCGGGCUCAGACA 74
chr-4.trna44-Val-CAC      GAACCCGGGCUCAGACA 74
chr-8.trna62-Val-CAC      GAACCCGGGCUCAGACA 74
chr-1.trna194-Val-CAC     GAACCCGGGCUCAGACA 74
chr-10.trna14-Val-CAC     GAAUCUGGGCUCAGACA 74
chr-9.trna9-Val-CAC       AAGUCCGGGCGACACCA 74
chr-6.trna65-Val-AAC      GAGUCCGGGCGAAGCCA 74
chr-6.trna69-Val-AAC      GAGUCCAGGCGAAGCCA 74
chr-1.trna6-Val-AAC       GAGUCCGGGCGAAGCCA 74
chr-6.trna62-Val-AAC      GAGUCCGGGCGACGCCA 74
chr-6.trna66-Val-AAC      GAGUCCGGGCGAAGCCA 74
chr-6.trna67-Val-AAC      GAGUCCGGGCGAAGCCA 74
chr-8.trna4-Val-AAC       GAGUCCGGGCGAAGCCA 74
chr-8.trna69-Val-AAC      GAGUCCGGGCGACGCCA 74
chr-8.trna102-Val-AAC     GAGUCCGGGCGAAGCCA 74
chr-8.trna113-Val-AAC     GAGUCCGGGCGACGCCA 74
chr-9.trna37-Val-AAC      GAGUCCGGGCGACGCCA 74
chr-10.trna51-Val-AAC     GAGUCCGGGCGACGCCA 74
chr-1.trna11-Val-AAC      GAGUCCGGGCGACGCCA 74
chr-1.trna53-Val-AAC      CAGUCCGGGCGACGCCA 74
chr-1.trna177-Val-AAC     GAGUCCGGGCGAAGCCA 74
chr-12.trna18-Val-AAC     GAGUCCGGGGAAACCA 74
chr-1.trna29-Val-TAC      GAUCCUGGGCAGCAACA 73
chr-10.trna116-Val-TAC    GAUCCUGGGCAGCAACA 73
chr-9.trna34-Val-TAC      GAUCCUGGGCAGCAGCA 73
chr-10.trna101-Val-TAC    GAUCCUGGGCAGCAACA 73
chr-3.trna1-Val-TAC       GAUCCUGGGCAGCAACA 73
chr-11.trna7-Val-TAC      GAUCCUGGGCAUCAACA 73
chr-11.trna6-Val-TAC      GAUCCUGGGCAUCAACA 73
chr-1.trna3-Val-CAC       GAACACGGGCUCAGACA 76
chr-1.trna75-Val-AAC      AAGUCCGGGCGACACCC 75
chr-10.trna59-Val-TAC     GAUCCUGGGCAUCAACA 67
chr-10.trna102-Val-GAC    GAGCCUAAUUAUCCCUA 72
chr-10.trna91-Val-GAC     GAGCCUGAUUAUCCCUA 72
chr-8.trna138-Val-GAC     AAGCCUGAUUGUCCCUA 72
chr-11.trna107-Val-GAC    GAGCCUGACUAUCCCUA 72
chr-10.trna121-Val-GAC    GAGCCUGAUUAUUCCUA 72
chr-6.trna26-Val-GAC      GAGCCUGAUUAUCCCUA 72
chr-2.trna28-Val-GAC      GAGCCUGAUAAUCCCUA 72
chr-6.trna131-Val-GAC     GAGCCUGAUUAUCCCUU 72
chr-8.trna54-Val-GAC      GAGCCUGAUUAUCNAGG 72
chr-1.trna77-Val-GAC      GAGCCUAAUUAUCCCUA 72
chr-2.trna78-Val-AAC      GAGCCUGAUUAUCCCUA 72
chr-1.trna166-Val-GAC     GAGCCUGAUUAUCCCUA 72
chr-11.trna122-Val-GAC    GAGCCUGAUUAUCCCUA 72
chr-9.trna42-Val-GAC      GAGCCUGAUUAUCCUGA 72
chr-10.trna12-Val-GAC     GAGCCUGAUUAUCCCUA 72
chr-11.trna52-Val-GAC     GAGCCUGAUUAUCCCUA 72
chr-7.trna30-Val-AAC      GAGCCCGAUUAUCCCUA 72
chr-3.trna131-Val-AAC     GAUCCCCGGUAAAGGUG 72
chr-9.trna27-Val-GAC      AAUUCCUAAUAGAUACA 72
                          .........70......
```