```
                                 (((((((..((((.....)))).(((((.....)))))).....(((((.....)))))
chr-1D.trna67-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAACC 60
chr-2B.trna63-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAACC 60
chr-2B.trna64-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAACC 60
chr-2B.trna65-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAACC 60
chr-2B.trna66-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAACC 60
chr-1A.trna56-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAACC 60
chr-2C.trna83-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAACC 60
chr-2D.trna74-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAACC 60
chr-2C.trna84-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAACC 60
chr-2D.trna28-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAACC 60
chr-5D.trna42-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCUCCGGUUCGAACC 60
chr-5C.trna47-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCUCCGGUUCGAACC 60
chr-5B.trna18-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCUCCGGUUCGAACC 60
chr-5A.trna19-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCUCCGGUUCGAACC 60
chr-7A.trna39-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCUCCGGUUCGAACC 60
chr-7A.trna37-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCUCCGGUUCGAACC 60
chr-4D.trna6-Cys-GCA     GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCUCCGGUUCGAACC 60
chr-7A.trna35-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCUCCGGUUCGAACC 60
chr-4A.trna70-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCUCCGGUUCGAACC 60
chr-4C.trna1-Cys-GCA     GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCUCCGGUUCGAACC 60
chr-7C.trna37-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCUCCGGUUCGAACC 60
chr-4B.trna1-Cys-GCA     GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCUCCGGUUCGAACC 60
chr-4A.trna28-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUCGACUGCAGAUCGAUAGGUCUCCGGUUCGAACC 60
chr-4B.trna22-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUCGACUGCAGAUCGAUAGGUCUCCGGUUCGAACC 60
chr-4B.trna23-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUCGACUGCAGAUCGAUAGGUCUCCGGUUCGAACC 60
chr-4C.trna23-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUCGACUGCAGAUCGAUAGGUCUCCGGUUCGAACC 60
chr-4D.trna24-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUCGACUGCAGAUCGAUAGGUCUCCGGUUCGAACC 60
chr-4D.trna25-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUCGACUGCAGAUCGAUAGGUCUCCGGUUCGAACC 60
chr-4C.trna3-Cys-GCA     GGGUACAUAGCUCAGUGGUAGAGCAAUCGACUGCAGAUCGAUAGGUCUCCGGUUCGAACC 60
chr-1A.trna58-Cys-GCA    GGGUACAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAACC 60
chr-1D.trna55-Cys-GCA    GGGUACAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAACC 60
chr-3C.trna50-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAACC 60
chr-3A.trna37-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAACC 60
chr-3D.trna39-Cys-GCA    GGGUUCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAACC 60
chr-3B.trna34-Cys-GCA    GGGUUCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAACC 60
chr-1A.trna57-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAACC 60
chr-2D.trna27-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAACC 60
chr-2D.trna73-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAACC 60
chr-2C.trna32-Cys-GCA    GGGUCCAUAGCUCACUGGUAGAGUGUUCGACUGCAGAUCAAGAGGUCACUGUUUUGAACC 60
chr-2C.trna33-Cys-GCA    GGGUCCAUAGCUCACUGGUAGAGCGUUCGACUGCAGAUCAAGAGGUCACUGUUUUGAACC 60
chr-2C.trna89-Cys-GCA    GGGUCCAUAGCUCACUGGUAGAGUGUUCGACUGCAGAUCAAGAGGUCACUGUUUUGAACC 60
chr-2D.trna77-Cys-GCA    GGGUCCAUAGCUCACUGGUAGAGUGUUCGACUGCAGAUCAAGAGGUCACUGUUUUGAACC 60
chr-7A.trna84-Cys-GCA    GGCAGCAUGGCCAAGUGGUAAGGCAAAGGACUGCAAAUCCUU-UAUCCCUAGUUCAAAUC 59
chr-1D.trna49-Cys-GCA    GGCGGCAUGGCCAAGCGGUAAGGCAGGGGACUGCAAAUCCUU-UAUCCCCAGUUCAAAUC 59
chr-7C.trna63-Cys-GCA    GGCGGCAUGGCCAAGUGGUAAGGCAGAGGACUGCAAAUCCUU-UAUCCCUAGUUCAAAUC 59
chr-3B.trna19-Cys-GCA    GGCGGCAUGGCCAAGUGUUUAGGCAGGGGACUGCAAAUCCUU-UACCCCCAGUUCAAAUC 59
chr-3B.trna42-Cys-GCA    GGCGGCAUGGCCAAGUGUUUAGGCAGGGGACUGCAAAUCCUU-UACCCCCAGUUCAAAUC 59
chr-3B.trna43-Cys-GCA    GGCGGCAUGGCCAAGUGUUUAGGCAGGGGACUGCAAAUCCUU-UACCCCCAGUUCAAAUC 59
chr-3B.trna48-Cys-GCA    GGCGGCAUGGCCAAGUGUUUAGGCAGGGGACUGCAAAUCCUU-UACCCCCAGUUCAAAUC 59
chr-7B.trna63-Cys-GCA    GGCAGCAUGGCCAAGUGGUAAGGCAGGGGACUGCAAAUCCUU-UAUCCCCAGUUCAAAUC 59
chr-7B.trna65-Cys-GCA    GGCGGCAUGGCCAAGUGGUAAGGCAGGGGACUGCAAAUCCUU-UAUCCCCAGUUCAAAUC 59
chr-7B.trna28-Cys-GCA    GGCGGCAUGGCCAAGUGGUAAGGC-AGGGACUGCAAAUCCUU-UAUCCCCAGUUCAAAUC 58
                         .........10........20........30........40........50.........

                         ))))))))))).
chr-1D.trna67-Cys-GCA    CGGUUGGGCCCU 72
chr-2B.trna63-Cys-GCA    CGGUUGGGCCCU 72
chr-2B.trna64-Cys-GCA    CGGUUGGGCCCU 72
chr-2B.trna65-Cys-GCA    CGGUUGGGCCCU 72
chr-2B.trna66-Cys-GCA    CGGUUGGGCCCU 72
chr-1A.trna56-Cys-GCA    CGGUUGGGCCCU 72
chr-2C.trna83-Cys-GCA    CGGUUGGGCCCU 72
chr-2D.trna74-Cys-GCA    CGGUUGGGCCCU 72
chr-2C.trna84-Cys-GCA    CGGUUGGGCCCU 72
chr-2D.trna28-Cys-GCA    CGGUUGGGCCCU 72
chr-5D.trna42-Cys-GCA    CGGAUGGGCCCU 72
chr-5C.trna47-Cys-GCA    CGGAUGGGCCCU 72
chr-5B.trna18-Cys-GCA    CGGAUGGGCCCU 72
chr-5A.trna19-Cys-GCA    CGGAUGGGCCCU 72
chr-7A.trna39-Cys-GCA    CGGAUGGGCCCU 72
chr-7A.trna37-Cys-GCA    CGGAUGGGCCCU 72
chr-4D.trna6-Cys-GCA     CGGAUGGGCCCU 72
chr-7A.trna35-Cys-GCA    CGGAUGGGCCCU 72
chr-4A.trna70-Cys-GCA    CGGAUGGGCCCU 72
chr-4C.trna1-Cys-GCA     CGGAUGGGCCCU 72
chr-7C.trna37-Cys-GCA    CGGAUGGGCCCU 72
chr-4B.trna1-Cys-GCA     CGGAUGGGCCCU 72
chr-4A.trna28-Cys-GCA    CGGAUGGGCCCU 72
chr-4B.trna22-Cys-GCA    CGGAUGGGCCCU 72
chr-4B.trna23-Cys-GCA    CGGAUGGGCCCU 72
chr-4C.trna23-Cys-GCA    CGGAUGGGCCCU 72
chr-4D.trna24-Cys-GCA    CGGAUGGGCCCU 72
chr-4D.trna25-Cys-GCA    CGGAUGGGCCCU 72
chr-4C.trna3-Cys-GCA     CGGAUGGGCCCU 72
chr-1A.trna58-Cys-GCA    CGGUUGGGCCCU 72
chr-1D.trna55-Cys-GCA    CGGUUGGGCCCU 72
chr-3C.trna50-Cys-GCA    CGGUUGGGCCCU 72
chr-3A.trna37-Cys-GCA    CGGUUGGGCCCU 72
chr-3D.trna39-Cys-GCA    CGGUUGGGCCCU 72
chr-3B.trna34-Cys-GCA    CGGUUGGGCCCU 72
chr-1A.trna57-Cys-GCA    UGGUUGGGCCCU 72
chr-2D.trna27-Cys-GCA    UGGUUGGGCCCU 72
chr-2D.trna73-Cys-GCA    UGGUUGGGCCCU 72
chr-2C.trna32-Cys-GCA    UGGUUGGGCCUG 72
chr-2C.trna33-Cys-GCA    UGGUUGGGCCCU 72
chr-2C.trna89-Cys-GCA    UGGUUGGGCCCU 72
chr-2D.trna77-Cys-GCA    UGGUUGGGCCUA 72
chr-7A.trna84-Cys-GCA    UAGGUGUCGCUU 71
chr-1D.trna49-Cys-GCA    UGGGUGUCGCCU 71
chr-7C.trna63-Cys-GCA    UAGGUGUCGCCU 71
chr-3B.trna19-Cys-GCA    UGGGUGCCGCCU 71
chr-3B.trna42-Cys-GCA    UGGGUGCCGCCU 71
chr-3B.trna43-Cys-GCA    UGGGUGCCGCCU 71
chr-3B.trna48-Cys-GCA    UGGGUGCCGCCU 71
chr-7B.trna63-Cys-GCA    UAGGUGUCGCCU 71
chr-7B.trna65-Cys-GCA    UAGGUGUCGCCU 71
chr-7B.trna28-Cys-GCA    UAGGUGUCGCCU 70
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