```
                                 (((((((..((((.......)))).)).((....))((((....))))(((((.......
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chr-13.trna1-Cys-GCA     GGGUUCUUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCAGUUCAAAU- 59
chr-12.trna39-Cys-GCA    GGGUCCUUAGCUUAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCAGUUCAAAU- 59
chr-12.trna44-Cys-GCA    GGGUCCUUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACUAGUUCAAAU- 59
chr-14.trna53-Cys-GCA    GGGUCUUUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCAGUUCGAAC- 59
chr-2.trna150-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAAC- 59
chr-8.trna248-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAC- 59
chr-15.trna20-Cys-GCA    GGGUUUAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAC- 59
chr-5.trna149-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUUAAGAGGUCAUCGGUUCAAAC- 59
chr-3.trna153-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCAUCGGUUCGAAC- 59
chr-13.trna79-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCAUCGGUUCGAAC- 59
chr-11.trna172-Cys-GCA   GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUUGAAC- 59
chr-14.trna31-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUUGAAC- 59
chr-4.trna163-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUUAAGAGGUCACCGGUUCGAAC- 59
chr-3.trna217-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAC- 59
chr-4.trna214-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAC- 59
chr-6.trna85-Cys-GCA     GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAC- 59
chr-14.trna128-Cys-GCA   GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAC- 59
chr-6.trna224-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAC- 59
chr-2.trna141-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAC- 59
chr-8.trna149-Cys-GCA    GGGUCCUUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAC- 59
chr-14.trna55-Cys-GCA    GGGUCCUUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAC- 59
chr-12.trna101-Cys-GCA   GGGUCCUUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAC- 59
chr-13.trna28-Cys-GCA    GGGUUCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAC- 59
chr-12.trna103-Cys-GCA   GGGUCCUUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAU- 59
chr-8.trna162-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAAAUCAAGAGGUCACCGGUUCGAAC- 59
chr-8.trna3-Cys-GCA      GGGUCCAUAGCUCAGUGAUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAC- 59
chr-12.trna61-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAC- 59
chr-14.trna201-Cys-GCA   GGGUUCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCAGUUCGAAC- 59
chr-15.trna21-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCAGUUCGAAC- 59
chr-12.trna107-Cys-GCA   GGGUCCUUAGCUCAGUGGUAGAGCAUUUGAUUGCAGAUCAAGAGGUCACCGGUUCGAAU- 59
chr-2.trna149-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAAC- 59
chr-12.trna87-Cys-GCA    GGGUCUAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCAUCGGUUCGAAC- 59
chr-12.trna60-Cys-GCA    GGGUCCAUAGCUCAGUGGUUGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAAC- 59
chr-12.trna89-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUGGGUCACCGGUUCGAAC- 59
chr-8.trna146-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCAGUUCGAAC- 59
chr-12.trna68-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCGGUUCGAAC- 59
chr-4.trna250-Cys-GCA    GGGUUCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCAGUUCGAAC- 59
chr-4.trna251-Cys-GCA    GGGUUCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCAGUUCGAAC- 59
chr-4.trna252-Cys-GCA    GGGUUCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCACCAGUUCGAAC- 59
chr-4.trna83-Cys-GCA     GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUUAAGAGGUCACUAGUUCAAAC- 59
chr-14.trna200-Cys-GCA   GGAUCCAUAGCUUAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCAUUUCGAAC- 59
chr-4.trna215-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCAGUUUGAAC- 59
chr-4.trna170-Cys-GCA    GGGUCUAUAGCUCAGUGGUAGAGCAUUCGACUGCAGAUCGAGAGGUCACCAGUUCAAAC- 59
chr-11.trna246-Cys-GCA   GGGUCUAUAGCUCAGUGGUAGAGCAUUCGACUGCAGAUCGAGAGGUCACCAGUUCAAAC- 59
chr-11.trna247-Cys-GCA   GGGUCUAUAGCUCAGUGGUAGAGCAUUCGACUGCAGAUCGAGAGGUCACCAGUUUAAAC- 59
chr-12.trna131-Cys-GCA   GGGCCUAUAGCUCAGUGGUAGAGCAUUCGACUGCAGAUCGAGAGGUCACCAGUUCAAAU- 59
chr-14.trna118-Cys-GCA   GGGUCUAUAGCUCAGUGGUAGAGCAUUUAACUGCAGAUCAAGUGGUCAUUGGUUCAAAU- 59
chr-14.trna65-Cys-GCA    GGGUCCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGAUUUGAUC- 59
chr-5.trna143-Cys-GCA    GGGUCCAUAGCUCAGUGGUAAAGCAUUUGAUUGCAGAUCGAGAGGUCAUCAGUUUAAAU- 59
chr-13.trna70-Cys-GCA    GAGUCCAUAGCUCAGUGGUAGAGCAUUUGACGGCAGAUCAAGAGGUCAUCGAUUUGAAC- 59
chr-14.trna157-Cys-GCA   GGGUCCAUAGCUCAGUGGUAGAGCAUUUGAUUGCAGAUCAAGAGGUCAUUAGUUCAAAC- 59
chr-5.trna144-Cys-GCA    GGGUUUAUAGCUUAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCAUCGGUCUGAAC- 59
chr-14.trna195-Cys-GCA   GGGUUCAUAGCUCAGUGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCAUCGGUUCGAAC- 59
chr-4.trna97-Cys-GCA     GGGCUUAUAGCUCAGUGGUAGAGUAUUUGACUGCAGAUUGAGAGUUCACCAGUUCAAAU- 59
chr-14.trna129-Cys-GCA   GGGUUCAUAGCUUAGUGGUAGAGUAUUUGACUGCAGAUUAAGAGGUCACCGGUUCGAAU- 59
chr-11.trna244-Cys-GCA   GGGUU-AUAGCUCAGUGGUAGAGCAUUCGACAGCAGAUCAAGAAGUCACCAGUUCAAAC- 58
chr-13.trna6-Cys-GCA     GGGUUCUUAGCUUAGUGGUAGAGCAUUUGACUGCAGAUCAAGGGGUCACCAGUUCAAGU- 59
chr-11.trna173-Cys-GCA   ---UCCAUAGCUCAGUAGUAGAGCAUUUGACUGCAGAUCAAGAGGUCACCGGUUCGAAU- 56
chr-12.trna86-Cys-GCA    ---UCCAUAGCUCAGUGGUAGAGCAAUUGACUGCAGAUCAAUAGGUCAUCGGUUCGAACA 57
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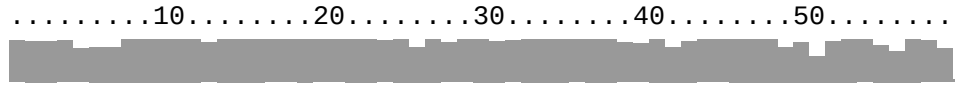
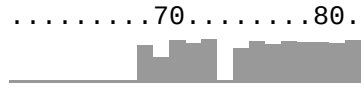
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                                 .........)))))..)))))))..
chr-12.trna42-Cys-GCA    --------CUGGU-AGGGCCCU 72
chr-13.trna1-Cys-GCA     --------CUGGU-AGAGCCCU 72
chr-12.trna39-Cys-GCA    --------CCGGU-AGGGCCCU 72
chr-12.trna44-Cys-GCA    --------CUGGU-AGGGCCCU 72
chr-14.trna53-Cys-GCA    --------CCGGU-AGGGCCCU 72
chr-2.trna150-Cys-GCA    --------UCGGU-UGGGCCCU 72
chr-8.trna248-Cys-GCA    --------UCGGU-UGGGCCCU 72
chr-15.trna20-Cys-GCA    --------UCGGU-UGGGCCCU 72
chr-5.trna149-Cys-GCA    --------CCGGU-UGGGCCCU 72
chr-3.trna153-Cys-GCA    --------CCGGU-UGGGCCUU 72
chr-13.trna79-Cys-GCA    --------CCGGU-UGGGCCCU 72
chr-11.trna172-Cys-GCA   --------CCGGU-UGGGCCCU 72
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chr-6.trna85-Cys-GCA     --------CCGGU-UGGGCCCU 72
chr-14.trna128-Cys-GCA   --------CCGGU-UGGGCCCU 72
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chr-12.trna131-Cys-GCA   --------CUGGU-UGGGCCCU 72
chr-14.trna118-Cys-GCA   --------CCGAU-UGGGCCCU 72
chr-14.trna65-Cys-GCA    --------CCGGU-UGGGUCCU 72
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chr-13.trna70-Cys-GCA    --------CUGAU-UGGGCUCU 72
chr-14.trna157-Cys-GCA   --------CUGGU-UCAGCCCU 72
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chr-14.trna195-Cys-GCA   --------CCGGU-UUGGUCCU 72
chr-4.trna97-Cys-GCA     --------CUGGUUUGGGCCCU 73
chr-14.trna129-Cys-GCA   --------CCGGU-UGGGCCUU 72
chr-11.trna244-Cys-GCA   --------CUGGU-UGGGCCCU 71
chr-13.trna6-Cys-GCA     --------CUGGU-AGAUCCCU 72
chr-11.trna173-Cys-GCA   --------GUUAU----AAAAU 66
chr-12.trna86-Cys-GCA    GCAACCUAUAGAUUUGGCAAAA 79
                                 .........70........80.
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