```
                                 (((..(........(((..((((.........)))).(((((.......))))).).....
chr-2.trna22-Met-CAT     ------G-------GGGUAGAGCAGCUUGGUAGCUCGUAAGGCUCAUAACCUU-GAGGUC 46
chr-1.trna25-Met-CAT     CGC---G-------GGGUAGAGCAGCUUGGUAGCUUGCAAGGCUCAUAACCUU-AAGGUC 49
chr-2.trna79-Met-CAT     CAC---G-------GGAUAGAACAGCUUGGUAGCUUGUAAGGCUCAUAACCUU-GAGGUC 49
chr-12.trna20-Met-CAT    CGC---G-------GGGUAGAGCAGCUUGGUAGCUCGCAAGGCUCAUAACCUU-AAGGUC 49
chr-11.trna54-Met-CAT    CGU---G-------GGAUAGAGCAGCUUGGUAGCUCGCAAGGCUCAUAACCUU-AAGGUC 49
chr-6.trna84-Met-CAT     CGC---A-------GGGUAGAGUAGCUUGGUAGCUCGCAAGGCUCAUAACCUU-GAGGUC 49
chr-6.trna86-Met-CAT     CGC---A-------GGGUAGAGUAGCUUGGUAGCUCGCAAGGCUCAUAACCUU-GAGGUC 49
chr-4.trna40-Met-CAT     CGC---G-------GGGUAGAGCAGCUUGGUAGCUCGUAAGGCUCAUAACCUU-GAGGUC 49
chr-6.trna41-Met-CAT     UGC---G-------GGGUAGAGCAGCUUGGUAGCUUGCAAGACUCAUAACCUU-GAGGUC 49
chr-8.trna93-Met-CAT     CGU---G-------GGGUAGAGCAACUUGGUAGCUCGCAAGGCUCAUAACCUU-GAGGUC 49
chr-5.trna2-Met-CAT      CGC---A-------GGGUAGAGCAACUUGGUAGCUCCCAAGGCUCAUAACAUU-GAGGUC 49
chr-6.trna88-Met-CAT     CGC---G-------AGGUAGAGCAGCUUGGUAGCUCGCAAGGCUCAUAACCUU-GAGGUC 49
chr-1.trna50-Met-CAT     UGC---A-------GGGUAGAGCAGCUUGGUAGCUCGCAAGGCUCAUAAUCUU-GAGGUC 49
chr-12.trna11-Met-CAT    UGC---A-------GGGUAGAGCAGCUUGGUAGCUCGCAAGGCUCAUAAUCUU-GAGGUC 49
chr-11.trna53-Met-CAT    UGC---U-------UGGUAGAGCAGCUUGGUAGCUCGCAAAGCUCAUAACCUU-GAAGUC 49
chr-6.trna10-Met-CAT     UGUCGCA-------GGGUAAAGUAGCUUGGUAGCUUGCAAGGCUCAUAACCUU-GAGGUC 52
chr-12.trna49-Met-CAT    UGUCUUUUCAUCACGGGUAGAGUAGCUUGGUAGCUCGCAAGGCUCAUAACCUU-GAGGUU 59
chr-9.trna12-Met-CAT     GGG--C--------UUAUAGUUUAAUUGGUUGAAACGUACCGCUCAUAACGGU-UAUAUU 49
chr-6.trna31-Met-CAT     GGG--C--------UUAUAGUUUAAUUGGUUAAAAUGUAUCUCUCAUAAU-GU-UAUAUU 48
chr-11.trna11-Met-CAT    GGG--G--------UGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCU-GAGGUC 49
chr-6.trna49-Met-CAT     GGG--G--------UGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCU-GAGGUC 49
chr-9.trna61-Met-CAT     GGG--G--------UGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCU-GAGGUC 49
chr-9.trna60-Met-CAT     GGG--G--------UGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCU-GAGGUC 49
chr-9.trna1-Met-CAT      GGG--G--------UGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCU-GAGGUC 49
chr-8.trna68-Met-CAT     GGG--G--------UGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCU-GAGGUC 49
chr-8.trna67-Met-CAT     GGG--G--------UGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCU-GAGGUC 49
chr-8.trna20-Met-CAT     GGG--G--------UGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCU-GAGGUC 49
chr-7.trna21-Met-CAT     GGG--G--------UGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCU-GAGGUC 49
chr-5.trna44-Met-CAT     ACC--U--------ACUUAACUCAG-UGGUUAGAGUAUUGCUUUCAUACGGCG-GGAGUC 48
chr-11.trna80-Met-CAT    ACC--U--------ACUUAACUCAG-UGGUUAGAGUAUUGCUUUCAUACGGCG-GGAGUC 48
chr-5.trna33-Met-CAT     ACC--U--------ACUUAACUCAG-UGGUUAGAGUAUUGCUUUCAUACGGCG-GGAGUC 48
chr-11.trna65-Met-CAT    ACC--U--------ACUUAACUCAG-UGGUUAGAGUAUUGCUUUCAUACGGCG-GGAGUC 48
chr-11.trna68-Met-CAT    ACC--U--------ACUUAACUCAG-UGGUUAGAGUAUUGCUUUCAUACGGCG-GGAGUC 48
chr-6.trna107-Met-CAT    ACC--U--------ACUUAACUUAG-UGGUUAGAGUAUUCCUUUCAUACGGCG-AGAGUC 48
chr-2.trna50-Met-CAT     ACC--U--------ACUUAACUCAG-UGGUUAUAGUAUUGCUUUCAUACGGCG-GGAAUC 48
chr-4.trna15-Met-CAT     GCC--U--------ACUUAGCUCAG-UGGUUAGAGUAUUGCUUUCAUACGGCG-AGAAUC 48
chr-6.trna74-Met-CAT     ACC--U--------ACUUAACUCAG-UGGUUAGAGUAUUGCUUUCAUACAGCG-GGAGUC 48
chr-6.trna75-Met-CAT     ACC--U--------ACUUAACUCAG-UGGUUAGAGUAUUGCUUUCAUACAGCG-GGAGUC 48
chr-2.trna51-Met-CAT     ACC--U--------ACUUAACUUAG-UGGUUAGAGUAUUGCUUUCAUACAACG-GGAGUC 48
chr-2.trna89-Met-CAT     ACC--U--------ACUUAACUCAG-UGGUUAGAGUAUUGCUUUCAUAUGGCG-GGAGUC 48
chr-8.trna24-Met-CAT     ACC--U--------ACUUAACUCAG-UAGUUAGAAUAUCGCUUUCAUAUGGUG-AGAGUC 48
chr-4.trna28-Met-CAT     ACC--U--------ACUUAACUCAG-UGGUUAGAGUAUUGCUUUCAUACGGCG-GGAGUC 48
chr-2.trna90-Met-CAT     ACC--U--------AUUUAACUCAG-UGGUUAGAGUAUUGAUUUCAUACGGCG-AGAGUC 48
chr-4.trna39-Met-CAT     UGACCU--------ACUUAACUCAG-UGGUUAGAGUAUUGCUUUCAUACGGCG-GGAGUC 50
chr-8.trna73-Met-CAT     GCA--U--------CCAUGGCUGUA-UGGUCAAAGUGCCCAAAUCAUAAUUGGCAAAUUC 49
chr-11.trna43-Met-CAT    GCA--U--------CCAUUGCUGAA-UGGUUAAAGUGCCCAACUCAUAAUUGGUGAAUUC 49
chr-4.trna10-Met-CAT     GCA--U--------CCAUGGCUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGUAAAUUU 49
chr-6.trna39-Met-CAT     GCA--U--------CCAUGGUUGAA-UGGUUGAAGCGCCCAACUCAUAAUUGGCGAAUUU 49
chr-6.trna70-Met-CAT     GCA--U--------CCAUGGCUGAA-UGGUUAAAGAGCCCAACUCAUAAUUGGCAAAUUC 49
chr-1.trna24-Met-CAT     GCA--U--------CCAUGGCUAAA-UGGUUAAAGCACCCAACUCAUAAUUGGCGAAUUC 49
chr-5.trna51-Met-CAT     GCA--U--------CCAUGGCUGAA-UGGUUAAAGCACCCAACUCAUAAUUAGCGAAUUC 49
chr-11.trna51-Met-CAT    GCA--U--------CCAUGGCUGAA-UGGUUAAAGCGCCUAACACAUAAUUAGCGAAUUC 49
chr-5.trna38-Met-CAT     GCA--U--------CCAUGGCUGAA-UGGUUAAAGCACCCAACUCAUAAUUGGCAAAUUC 49
chr-6.trna100-Met-CAT    GCA--U--------CCAUGGCUGAA-UGGUUAAAGCACCCAACUCAUAAUUGGCAAAUUC 49
chr-5.trna29-Met-CAT     GCA--U--------CCAUGGCUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGCAAAUUC 49
chr-11.trna37-Met-CAT    GCA--U--------CCAUGGCUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGCAAAUUC 49
chr-9.trna64-Met-CAT     GCA--U--------CCAUGGCUAAA-UGGUUAAAGCGCCCAACUCAUAAUUGGCGAAUUC 49
chr-11.trna72-Met-CAT    GCA--U--------CCAUGGCUAAA-UGGUUAAAGCGCCCAACUCAUAAUUGGCGAAUUC 49
chr-4.trna13-Met-CAT     GCA--U--------CCAUGGCUUAA-UGGUUAAAGCGCCCAACUCAUAAUUGGCGAAUUC 49
chr-4.trna18-Met-CAT     GCA--U--------CCAUGGCUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGCGAAUUA 49
chr-2.trna69-Met-CAT     GCA--U--------CCAUGGCUGAA-UGGUUAAAGUGCCCAACUCAUAAUUGGCGGAUUC 49
chr-11.trna23-Met-CAT    GCA--U--------CCAUGGCUGAA-UGGUUAAAGUGACCAACUCAUAAUUGGUGAAUUC 49
chr-10.trna40-Met-CAT    GCA--U--------CCAUGGCUGAA-UGGUUAAAGCGACCAACUCAUAAUUGGUGAAUUC 49
chr-10.trna44-Met-CAT    GCA--U--------CCAUGGCUGAA-UGGUUAAAGCGACCAACUCAUAAUUGGUGAAUUC 49
chr-11.trna82-Met-CAT    GCA--U--------CCAUGGCUGAA-UGGUUAAAGUGACCAACUCAUAAUUGGUGAAUUC 49
chr-5.trna72-Met-CAT     GCA--U--------CCAUUGCUGAA-UGGUUAAAGCACCUAACUCAUAAUUGAUGAAUUC 49
chr-1.trna58-Met-CAT     GCA--U--------CCAUGGCUGAG-UGGUUAAAGCGCCCAACUCAUAAUUGUCUAAUUC 49
chr-12.trna7-Met-CAT     GCA--U--------CCAUGCCUGAA-UGGUCAAAGUGCCCAAAUCAUAAUUGGCUAAUUC 49
chr-1.trna1-Met-CAT      UCUUU---------UAGUAGAGGAAUUGGUCGACUCAUCAGGCCCAUGACCUG-AAGACU 50
                                 .........10........20........30........40........50.........
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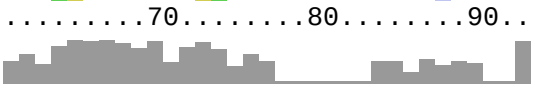
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                                 (((((.......)))))......)))))))...
chr-2.trna22-Met-CAT     AUCGGUUCAAAUGCCGU------CUCUGCAACA 73
chr-1.trna25-Met-CAT     AUGGGUUCAAAUCUCAU------CUCUGCA--A 74
chr-2.trna79-Met-CAT     AUGGGUUCAAAUCCCGU------CUCCGUA--A 74
chr-12.trna20-Met-CAT    ACGGGUUCAAAUCCCAU------CUCCGCA--A 74
chr-11.trna54-Met-CAT    ACAGGUUCAAAUCUUGU------CUCCGCA--A 74
chr-6.trna84-Met-CAT     ACGGGCUCAAAUCCCGU------CUCUGCA--A 74
chr-6.trna86-Met-CAT     ACGGGCUCAAAUCCCGU------CUCUGCA--A 74
chr-4.trna40-Met-CAT     AUGGGUUCAAAUCCCAU------CUCCGCA--A 74
chr-6.trna41-Met-CAT     ACAGGUUCAAAUCCCAU------CUCUGCA--A 74
chr-8.trna93-Met-CAT     AUGGGUUUAAAUCCCGU------CUCUGUA--A 74
chr-5.trna2-Met-CAT      ACGAGUUCAAAUCCCGU------CUCCGCA--A 74
chr-6.trna88-Met-CAT     ACGGGUUCAAAUCCCAU------CUCCACA--A 74
chr-1.trna50-Met-CAT     ACAGGUUGAAAUCCCAU------CUCCGCA--A 74
chr-12.trna11-Met-CAT    ACAGGUUGAAAUCCCAU------CUCCGCA--A 74
chr-11.trna53-Met-CAT    ACGGGUUCAAAUCCUGU------CUCCGCA--A 74
chr-6.trna10-Met-CAT     ACGGGUUCAAAUCUCGU------CUCCACA--A 77
chr-12.trna49-Met-CAT    AAGGGUUCAAAUCCCGU------CUCUACA--A 84
chr-9.trna12-Met-CAT     GUAGGUUCGAGCCCUAC------UAAGCCU--A 74
chr-6.trna31-Met-CAT     GUAGGUUCGAGCCCUAC------UAAGCCU--A 73
chr-11.trna11-Met-CAT    GAGAGUUCGAGCCUCUC------UCACCCC--A 74
chr-6.trna49-Met-CAT     GAGAGUUCGAGCCUCUC------UCACCCC--A 74
chr-9.trna61-Met-CAT     GAGAGUUCGAGCCUCUC------UCACCCC--A 74
chr-9.trna60-Met-CAT     GAGAGUUCGAGCCUCUC------UCACCCC--A 74
chr-9.trna1-Met-CAT      GAGAGUUCGAGCCUCUC------UCACCCC--A 74
chr-8.trna68-Met-CAT     GAGAGUUCGAGCCUCUC------UCACCCC--A 74
chr-8.trna67-Met-CAT     GAGAGUUCGAGCCUCUC------UCACCCC--A 74
chr-8.trna20-Met-CAT     GAGAGUUCGAGCCUCUC------UCACCCC--A 74
chr-7.trna21-Met-CAT     GAGAGUUCGAGCCUCUC------UCACCCC--A 74
chr-5.trna44-Met-CAT     AUUGGUUCAAAUCCAAU------UGUAGGU--A 73
chr-11.trna80-Met-CAT    AUUGGUUCAAAUCCAAU------UGUAGGU--A 73
chr-5.trna33-Met-CAT     AUUGGUUCAAAUCCAAU------GGUAGGU--A 73
chr-11.trna65-Met-CAT    AUUGGUUCAAAUCCAAU------GGUAGGU--A 73
chr-11.trna68-Met-CAT    AUUGGUUCAAAUCCAAU------AGUAGGU--C 73
chr-6.trna107-Met-CAT    AUUGGUUCAAAUCCAAU------AGUAGGU--A 73
chr-2.trna50-Met-CAT     AUUGGUUCAAAUCCAAU------GGUAGGU--A 73
chr-4.trna15-Met-CAT     AUUGGUUCAAAUCCAAU------AGUAGGU--A 73
chr-6.trna74-Met-CAT     AUUGGUUCAAAUCCAAU------AGUUGGU--A 73
chr-6.trna75-Met-CAT     AUUGGUUCAAAUCCAAU------AGUAGGU--A 73
chr-2.trna51-Met-CAT     AUUGGUUCAAAUCCAAU------AGUAGGC--A 73
chr-2.trna89-Met-CAT     AUUGGUUCAAAUUCAAU------AGUAGGU--A 73
chr-8.trna24-Met-CAT     AUUGGUUCAAAUCCAGU------AGUAGGU--A 73
chr-4.trna28-Met-CAT     AUUGGUUCAAAUCCA-U------AGUAGGU--A 72
chr-2.trna90-Met-CAT     AUUGGUUCAAAUCUGAU------AGUAGGU--A 73
chr-4.trna39-Met-CAT     AUUGGUUCAAAUCCAAU------AGUAUUA--G 75
chr-8.trna73-Met-CAT     AUAGGUUCAAUUCCUAC------UGGAUAC--A 74
chr-11.trna43-Met-CAT    GUAGGUUCAAUUCCUAA------UGGAUAC--A 74
chr-4.trna10-Met-CAT     GUAGGUUCAAUUCCCAC------UGGAUGC--A 74
chr-6.trna39-Met-CAT     GUAGGUUCAAUUCCUAU------UGGAUGC--A 74
chr-6.trna70-Met-CAT     AUAGGUUCAAUUCCUAC------UGGAUGC--A 74
chr-1.trna24-Met-CAT     GUAGGUUCAAUUCCUAC------UGAAUGC--A 74
chr-5.trna51-Met-CAT     GUAGGUUCAAUUCCUAC------AGGAUGC--A 74
chr-11.trna51-Met-CAT    GUAGGUUUAAUUCCUAC------UGGAUGU--A 74
chr-5.trna38-Met-CAT     GUAGGUUCAAUUCCUAC------UAGAUGC--A 74
chr-6.trna100-Met-CAT    GUAGGUUCAAUUCCUAC------UAGAUGC--A 74
chr-5.trna29-Met-CAT     GUAGGUUCAAUUCCUAC------UGGAUAC--A 74
chr-11.trna37-Met-CAT    GUAGGUUCAAUUCCUAC------UGGAUGC--A 74
chr-9.trna64-Met-CAT     GUAGGUUCAAUUUCUAC------UGAAUGC--A 74
chr-11.trna72-Met-CAT    GUAGGUUCAAUUCCUAC------UGAAUGC--A 74
chr-4.trna13-Met-CAT     GUAGGUUCAAUUCCUAU------UGAAUGC--A 74
chr-4.trna18-Met-CAT     GUAGGUUCAAUUCCUAC------UACAUGC--A 74
chr-2.trna69-Met-CAT     GUAGGUUCAAUUCCUAC------UGGAUGC--A 74
chr-11.trna23-Met-CAT    GUAGGUUCAGUUCCUAC------UGGAUGC--A 74
chr-10.trna40-Met-CAT    GUAGGUUCAAUUCCUAC------UGGAUGC--A 74
chr-10.trna44-Met-CAT    GUAGGUUCAAUUCCUAC------UGGAUGC--A 74
chr-11.trna82-Met-CAT    GUAGGUUCAAUUCCUAC------UGGAUGC--A 74
chr-5.trna72-Met-CAT     GUAGGUUCAAUUCCUAC------UGGAUGC--A 74
chr-1.trna58-Met-CAT     AUAGGUUCAAUUCCUAC------UGGAUGC--A 74
chr-12.trna7-Met-CAT     GUAGGUUCAAUUCCUAC------UGGAUGC--A 74
chr-1.trna1-Met-CAT      GCAGGUUCGAAUCCUGUCCCCGCCUAUGGA--A 81
                                 .........70........80........90..
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