```
                                 ((.........(((((..((((.........)))).(((((.......)))))).....
chr-8.trna310-Met-CAT    GA----------AUCUGUGGUGCAA-UGG-UAGCACGAUUGACUCAUUGUUAGGAAA-U-  46
chr-3.trna270-Met-CAT    GC----------CAUCUUAGCUCAA-UGG-UAGAGCACAUGGCUCAUUGCCAUGUAGCU-  47
chr-1.trna151-Met-CAT    GC----------AUCCAUGGAUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGC-AAUUC  48
chr-7.trna239-Met-CAT    GC----------AUCCAUGGCUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGCAAAUUC  49
chr-7.trna552-Met-CAT    GC----------AUCCAUGGCUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGCAAAUUC  49
chr-7.trna48-Met-CAT     GC----------AUCCAUGGCUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGCAAAUUC  49
chr-8.trna305-Met-CAT    GC----------AUCCAUGGCUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGCAAAUUC  49
chr-6.trna344-Met-CAT    GC----------AUCCAUGGCUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGAAAAUUC  49
chr-7.trna224-Met-CAT    GC----------AUCCAUGGCUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGCAAAUUC  49
chr-9.trna222-Met-CAT    GC----------AUCCAUGGUUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGCAAAUUC  49
chr-2.trna295-Met-CAT    GC----------AUCCAUAGUUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGCAAAUUC  49
chr-9.trna235-Met-CAT    GC----------AUCCAUGGUUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGCAAAUUC  49
chr-4.trna212-Met-CAT    GC----------AUCCAUGGCUGAA-UGGUUAAAGCACCCAACUCAUAAUUGGCAAAUUU  49
chr-8.trna245-Met-CAT    GC----------AUCCAUGGCUGAG-UGGUUAAAGCGCCCAACUCAUAAUUGGAAAAUUC  49
chr-4.trna56-Met-CAT     GC----------AUCCAUGGCUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGAAAAUUC  49
chr-6.trna301-Met-CAT    GC----------AUCCAUGGCUGA--UGGUUAAAGCGCCCAACUCAUAGUUGGCAAAUUC  48
chr-7.trna388-Met-CAT    ------------UCCAUGGCUGAA-UGGUUAAAGCGCCCAACUCAUAAUUGGCAAAUUC  46
chr-3.trna135-Met-CAT    GG----------GGUGGUGGCGCAGUUGGUUAGCUCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-11.trna153-Met-CAT   GG----------GGUGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-3.trna38-Met-CAT     GG----------GGUGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-3.trna275-Met-CAT    GG----------GGUGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-4.trna283-Met-CAT    GG----------GGUGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-5.trna184-Met-CAT    GG----------GGUGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-5.trna386-Met-CAT    GG----------GGUGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-6.trna291-Met-CAT    GG----------GGUGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-11.trna7-Met-CAT     GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-6.trna55-Met-CAT     GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-6.trna13-Met-CAT     GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-6.trna12-Met-CAT     GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-1.trna231-Met-CAT    GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-1.trna232-Met-CAT    GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-5.trna192-Met-CAT    GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-5.trna185-Met-CAT    GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-7.trna55-Met-CAT     GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-1.trna248-Met-CAT    GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-8.trna34-Met-CAT     GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-4.trna223-Met-CAT    GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-1.trna351-Met-CAT    GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-4.trna28-Met-CAT     GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-4.trna26-Met-CAT     GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-4.trna25-Met-CAT     GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-2.trna25-Met-CAT     GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-8.trna36-Met-CAT     GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-2.trna47-Met-CAT     GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-2.trna245-Met-CAT    GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-8.trna37-Met-CAT     GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-2.trna152-Met-CAT    GG----------GGUGGGGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-3.trna346-Met-CAT    GG----------GGUGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCCG-AGGUC  49
chr-4.trna124-Met-CAT    GG----------GGUGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-5.trna57-Met-CAT     GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-1.trna44-Met-CAT     GG----------GGCGGUGGCGCAGUUGGCUAGCGCGUGGGUCUCAUAAUCCUG-AGGUC  49
chr-5.trna349-Met-CAT    GG----------GGUGGUGGCGCAGUUGGCAAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-1.trna170-Met-CAT    GU----------GGUGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  49
chr-2.trna17-Met-CAT     UGG---------GGUGGUGGCGCAGUUGGCUAUCGUGUAGGUCUCAUAAUCCUG-AGGUC  50
chr-6.trna203-Met-CAT    G-----------GGAGGUGGCGCAGUUGGCUAGCGCGUAGGUCUCAUAAUCCUG-AGGUC  48
chr-1.trna247-Met-CAT    GG----------GGCGGUGGCUU-GUUGGCUAGCUCGUAGGUCUCAUAAUCCUG-AGGUC  48
chr-7.trna436-Met-CAT    AG----------GCUUAUAGUUUAAUUGGUUAAAACGCACCGCUCAUAACGGUA-AUAUU  49
chr-9.trna277-Met-CAT    AG----------GCUUAUAGUUUAAUUGGUUGAAACGUACCGCUCAUAACGGUA-AUAUU  49
chr-9.trna411-Met-CAT    AG----------GCUUAUAGUUUAAUUGGUUGAAACGUACCGCUCAUAACGGUA-AUAUU  49
chr-9.trna185-Met-CAT    AG----------GCUUAUAGUUUAAUUGGUUGAAACGUACCGCUCAUAACGGUA-AUAUU  49
chr-5.trna49-Met-CAT     AG----------GCUUAUAGUUUAAUUGGUUGAAACGUACCGCUCAUAACGGUA-AUAUU  49
chr-9.trna194-Met-CAT    CG----------CGGGGUAGAGCAGCUUGGUAGCUCGCAAGGCUCAUAAACUUG-AGGUC  49
chr-11.trna231-Met-CAT   GU----------CUGAGUGGUGUAG-AGGUUAUCACGUUAGUCUCAUACACUAA-AGGUC  48
chr-5.trna295-Met-CAT    CCU---------ACUUAAACCCAG-UGGUUAGAGUAUUGCUUUCAUACGGCGGGA-GUC  48
chr-11.trna191-Met-CAT   ACC---------UACUUAACCCAG-UGGUUAGAGUAUUGCUUUCAUACGGGGGGA-GUC  48
chr-3.trna225-Met-CAT    ACC---------UACCUAACCUAG-UGGUUAGAGUAUUGCUUUCAUACGGCGGGA-GUC  48
chr-5.trna294-Met-CAT    ACC---------UACCUAACCCAG-UGGUUAGAGUAUUGCUUUCAUACGGCGGGA-GUC  48
chr-5.trna225-Met-CAT    ACC---------UACUUAACUCAG-UGGUUAGAGUAUUGCUUUCAUAUGGCGGGA-GUC  48
chr-3.trna89-Met-CAT     AUC---------UACUUAACCCAG-UGGUUAGAGUAUCGCUUUCAUACGGCAGGA-GUC  48
chr-9.trna122-Met-CAT    ACC---------UACUUAACCCAG-UGGUUAGAGUAUUGCUUUCAUACGACGGGA-UUC  48
chr-5.trna289-Met-CAT    ACC---------UACUUAACC-AG-UGGUUAGAGUAUUGCUUUCAUACGGCGGGA-GUC  47
chr-1.trna89-Met-CAT     ACA---------UACUUAACCCAG-UGGUUAGAGUAUUGCUUUCAUACGGAGGGA-GUC  48
chr-2.trna121-Met-CAT    ACC---------UACUUGACUCAG-CGAUUAGAGUAUUGCUUUCAUACGGCAAGA-UUC  48
chr-2.trna230-Met-CAT    ACC---------UACUUGACUUAA-CGGUUAGAGUAUUGAUUUCAUAUGGCAAGA-GUC  48
chr-5.trna442-Met-CAT    ACC---------UACUUGACUCAG-CGGUUAGAGUAUUGCUUUCAUACGGCAAGA-GUC  48
chr-7.trna180-Met-CAT    ACC---------UACUUGACUCAG-CGGUUAGAGUAUUGCUUUCAUACGGCAAGA-GUC  48
chr-11.trna118-Met-CAT   ACC---------UACUUGACUCAG-CGGUUAGAGUAUUGCUUUCAUACGGCAAGA-GUC  48
chr-6.trna119-Met-CAT    ACC-------AAAUACUUAACCCAG-UGGUUAGAGUAUUGCUUUCAUACGUCGGGA-GUC  51
chr-7.trna442-Met-CAT    AG----------CGGGGUAGAGGAAUUGGUCAACUCAUCAGGCUCAUGACCUGA-AGGCU  49
chr-1.trna594-Met-CAT    AG----------CGGGGUAGAGGAAUUGGUCAACUCAUCAGGCUCAUGACCUGA-AGGAU  49
chr-5.trna452-Met-CAT    AG----------CGGGGUAGAGGAAUUGGUCAACUCAUCAGGCUCAUGACCUGA-AGGCU  49
chr-9.trna417-Met-CAT    AG----------CGGGGUAGAGGAAUUGGUCAACUCAUCAGGCUCAUGACCUGA-AGGCU  49
chr-1.trna179-Met-CAT    AG----------CGGGGUAGAGGAAUUGGUCAACUCAUCAGGCUCAUGACCUGA-AGGCU  49
chr-3.trna365-Met-CAT    AA----------CGGGGUAGAGGAAUUGGUCAACUCAUCAGGCUCAUGACCUGA-AGGCU  49
chr-1.trna462-Met-CAT    ------------GGGGU-AGAGCAGCUUGGUAGCUCGCAAGGCUCAUAACCUUG-AGGUC  46
chr-7.trna155-Met-CAT    UGC---GUCCGCGCGUGUAGAGCAGCUUGGUAGCUCGCAAGGCUCAUAACCUUG-AGGUC  56
chr-2.trna119-Met-CAT    GGCAGGGAUAGGUCGUCUCAGGAGGAAUUGG-UUUCAUCAGGCUCAUGACCUGA-AGGCU  58
                                 .........10........20........30........40........50.........
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                                 (((((.......)))))..........
chr-8.trna310-Met-CAT    GUGUUGUUCGAAUCACGCCAGGUUCA---  71
chr-3.trna270-Met-CAT    GUGGCUUCAAUUCCCACAGAUGGCG---  72
chr-1.trna151-Met-CAT    GUAGGUUCAAUUCCUUCUGGAUGCA---  73
chr-7.trna239-Met-CAT    AUAGGUUCACUUCCUGCUGGAUGCA---  74
chr-7.trna552-Met-CAT    AUAGGUUCAAUUCCUGCUGGAUGUA---  74
chr-7.trna48-Met-CAT     GUAGGUUCAAUUCCUGCUGGAUGUA---  74
chr-8.trna305-Met-CAT    GUAGGUUCAGUUCCUGCUGGAUGCA---  74
chr-6.trna344-Met-CAT    GUAGGUUCAAUUCCUGCUGGAUGCA---  74
chr-7.trna224-Met-CAT    GUAGGUUCAAUUCCUGUUGGAUGCA---  74
chr-9.trna222-Met-CAT    GUAGCUUCAAUUCCUGUUGGAUGCA---  74
chr-2.trna295-Met-CAT    GUAGGUUCAAUUCCUGCUGGAUGCA---  74
chr-9.trna235-Met-CAT    GUAGGUUCAAUUCCUGCUGGAUGCA---  74
chr-4.trna212-Met-CAT    GUAGGUUCAAUUCCUGCUGGAUGCA---  74
chr-8.trna245-Met-CAT    GUAGGUUCAAUUCCUGCUGGAUGCA---  74
chr-4.trna56-Met-CAT     GUAGGUUCAAUUCCUUCUGGAUACA---  74
chr-6.trna301-Met-CAT    GAAGGUUCAAUUCCUGUUGGAUGCA---  73
chr-7.trna388-Met-CAT    GUAGGUUCAAUUCCUGCUAGAUAAA---  71
chr-3.trna135-Met-CAT    GAG-GUUCGAGCCUCUCUCACCCCA---  73
chr-11.trna153-Met-CAT   GAGAGUUCGAGCCUCUCUCACCCCA---  74
chr-3.trna38-Met-CAT     GAGAGUUCGAGCCUCUCUCACCCCA---  74
chr-3.trna275-Met-CAT    GAGAGUUCGAGCCUCUCUCACCCCA---  74
chr-4.trna283-Met-CAT    GAGAGUUCGAGCCUCUCUCACCCCA---  74
chr-5.trna184-Met-CAT    GAGAGUUCGAGCCUCUCUCACCCCA---  74
chr-5.trna386-Met-CAT    GAGAGUUCGAGCCUCUCUCACCCCA---  74
chr-6.trna291-Met-CAT    GAGAGUUCGAGCCUCUCUCACCCCA---  74
chr-11.trna7-Met-CAT     GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-6.trna55-Met-CAT     GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-6.trna13-Met-CAT     GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-6.trna12-Met-CAT     GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-1.trna231-Met-CAT    GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-1.trna232-Met-CAT    GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-5.trna192-Met-CAT    GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-5.trna185-Met-CAT    GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-7.trna55-Met-CAT     GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-1.trna248-Met-CAT    GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-8.trna34-Met-CAT     GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-4.trna223-Met-CAT    GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-1.trna351-Met-CAT    GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-4.trna28-Met-CAT     GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-4.trna26-Met-CAT     GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-4.trna25-Met-CAT     GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-2.trna25-Met-CAT     GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-8.trna36-Met-CAT     GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-2.trna47-Met-CAT     GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-2.trna245-Met-CAT    GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-8.trna37-Met-CAT     GAGAGUUCGAGCCUCUCUCGCCCCA---  74
chr-2.trna152-Met-CAT    GAGAGUUCGAGCCUCUCUCACCCCA---  74
chr-3.trna346-Met-CAT    GAGAGUUCGAGCCUCUCUCACCCCA---  74
chr-4.trna124-Met-CAT    GAAAGUUCGAGCCUCACUCACCCCA---  74
chr-5.trna57-Met-CAT     GAGAGUUCGAGCCUCUCUGGCCCCA---  74
chr-1.trna44-Met-CAT     GAGAGUUCGAGCCUAUCUCGCCCCA---  74
chr-5.trna349-Met-CAT    GAGAGUUCGAGCCUCUCUCACCCCA---  74
chr-1.trna170-Met-CAT    GAGAGUUCGAGCCUCUCUCACCCCA---  74
chr-2.trna17-Met-CAT     GAGAGUUCGAGCCUCUCUCACCCAA---  75
chr-6.trna203-Met-CAT    GAGAGAUCGAGCCUCUCUCGCCCCA---  73
chr-1.trna247-Met-CAT    GAGAGUUCGAGCCUCUCUCGACCCA---  73
chr-7.trna436-Met-CAT    GUAGGUUCAAGCCCUACUAAGUCUA---  74
chr-9.trna277-Met-CAT    GUAGGUUCAAGCCCUACUAAGCCUA---  74
chr-9.trna411-Met-CAT    GUAGGUUCAAGCCCUACUAAGCCUA---  74
chr-9.trna185-Met-CAT    GUAGGUUCAAUCCCUACUAAGCUUA---  74
chr-5.trna49-Met-CAT     GCAGGUUCAAGCCCUACUAAGCCUA---  74
chr-9.trna194-Met-CAT    ACGGGUUCAAAUCCCGUCCCCGCAA---  74
chr-11.trna231-Met-CAT   CCCAGUUCGAAACUGGGCUCAGACA---  73
chr-5.trna295-Met-CAT    AUUGGUUCAAUCCCAAUAGGUAGAA---  73
chr-11.trna191-Met-CAT   AUUGGUUCAAAUCCAAUAGUAGGUA---  73
chr-3.trna225-Met-CAT    AUUGGUUCAAAUCUAAUAGUAGGUA---  73
chr-5.trna294-Met-CAT    AUUGGUUCAAAUCCAAUAGUAGGUA---  73
chr-5.trna225-Met-CAT    AUUGGUUCAAAUCCAAUAGUAGGUA---  73
chr-3.trna89-Met-CAT     AUUGGUUCAAUUCCAAUAGUAGGUA---  73
chr-9.trna122-Met-CAT    AUUGGUUCAAAUCCAAUAGUAGGUA---  73
chr-5.trna289-Met-CAT    AUUGGUUCAAAUCCAAUAGUAGGUA---  72
chr-1.trna89-Met-CAT     AUUGGUUCAAAUCCAAUAGUAGGUA---  73
chr-2.trna121-Met-CAT    AUUGGUUCAAAUCCAAUAGUAGGUA---  73
chr-2.trna230-Met-CAT    AUUGGUUCAAAUCCAAUAGUAGGUA---  73
chr-5.trna442-Met-CAT    AUUGGUUCAAAUCCAAUAGUAGGUA---  73
chr-7.trna180-Met-CAT    AUUGGUUCAAAUCCAAUAGUAGGUA---  73
chr-11.trna118-Met-CAT   AUUGGUUCAAAUCCAAUAGUAGGUA---  73
chr-6.trna119-Met-CAT    AUUGGUUCAAAUCCAAUAGUAGGUA---  76
chr-7.trna442-Met-CAT    ACAGGUUCGAAUCAGGUCCCCGCCU---  74
chr-1.trna594-Met-CAT    ACAUGUUCGAAUCUUGUCCCCGCCU---  74
chr-5.trna452-Met-CAT    ACAGGUUCGAAUCCUGUCCCCGCCU---  74
chr-9.trna417-Met-CAT    ACAGGUUCGAAUCCUGUCCCCGCCU---  74
chr-1.trna179-Met-CAT    ACAGGUUCGAAUCCUGUCCCCUGCCU---  74
chr-3.trna365-Met-CAT    ACAGGUUAGAAUCUUGUCCUCGCCUGUA  77
chr-1.trna462-Met-CAT    ACGGGUUCAAAUCCC--AUCCCACA---  69
chr-7.trna155-Met-CAT    ACGGGUUCAAAUCCCGUCUCCGCAA---  81
chr-2.trna119-Met-CAT    ACAGGUUCGAAUCCUGUACCCGCCU---  83
                                 .........70........80.......
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