```
                                 (((((.((..((((.........)))).(((((.......)))))).............
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chr-9.trna43-Tyr-GTA     AGGAGA-GUAUCC-AAGCAGUUAAAAGCGACAGACUGUAAAUCUGUUGGAGUUUUUCCUA 58
chr-2.trna134-Tyr-GTA    CGGAGA-GUGGCC-GACCGGUUAAAAGAAACAGACUGUAAAUUUGUUGGAGUUUUUCCUA 58
chr-2.trna338-Tyr-GTA    UGGAGA-GUGGCC-GAGCGGUCAAAAGCGACAGACUGUAAAUUUGUUGGAGUUUUUCCUA 58
chr-9.trna409-Tyr-GTA    GGGAGA-GUGGCC-GAGCGGUCAAAAGCGACAGACUGUAAAUCUGUUGGAGUUUUUCCUA 58
chr-11.trna204-Tyr-GTA   GGGAGA-GUGGCU-GAGAGGUCAAAAGCGACAGACUGUAAAUUUGUUGGAGUUUUUCCUA 58
chr-5.trna47-Tyr-GTA     GGGAGA-GUGGCC-GAGCCGUCAAAAGUAACAGACUGUAAAUCUGUUGGAGUUUUUCCUA 58
chr-9.trna183-Tyr-GTA    GGGAGA-GUGGCC-GAGUGGUCAAAAGCGACAGAUUGUAAAUCUGUUGGAGUUUUUCCUA 58
chr-5.trna445-Tyr-GTA    GGGAGA-GUGGUC-GAGCGGUCAAAAGCGACAGACUGUAAAUAUAUUGGAGUUUUUCCUA 58
chr-2.trna274-Tyr-GTA    GGGAGA-GUGGCCGGGGCGGUUAAAAGCGACAGACUGUAAAUUUGUUGGAGUUUUGCCUA 59
chr-6.trna155-Tyr-GTA    GGGUCG-AUGCAC-GAGUGGUUAAUGGGGACGGACUGUAAAUUCGUUGGCUAUAUGUCUA 58
chr-11.trna112-Tyr-GTA   GGGUCG-GUGCCC-GAAUGGUUAAUGGAGACGAACUGUAAAUUCGUUGGCUAUAUGCCUA 58
chr-11.trna57-Tyr-GTA    GGGUCG-AUGCCC-GAGUGGUUAAUGGGGACGGACUGUAAAUUCGUUGGCUAUAUGUCUA 58
chr-1.trna475-Tyr-GTA    GGGUCG-AUGCCC-GAGUGGUUAAUGGGGACAGACUGUAAAUUCGUUGGC-AUAUGUCUA 57
chr-6.trna249-Tyr-GTA    GGGUCG-AUGCCC-GAGUGGUUAAUGGGGACAGACUGUAAAUUCGUUGGC-AUGUGUCUA 57
chr-1.trna465-Tyr-GTA    GGGUCG-AUGCCC-GAGUGGUUAAUGGGGACGGACUGUAAAUUUGUUGGC-AUAUGUCUA 57
chr-9.trna317-Tyr-GTA    GGGUCG-AUGCCG-GAGUGGUUAAUGGGGACGGACUGUAAAUUCGUUGGC-AUAUGUCUA 57
chr-7.trna53-Tyr-GTA     GGGUCA-AUGCCC-GAGUGGUUAAUGGGGACGGACUGUAAAUUCGUUGGC-AUAUGUCUA 57
chr-8.trna130-Tyr-GTA    GUCGU-UGUAGUAUAAUGGUA--AGUAUUCCCGCCUGUAACAUGGGUGA---------C- 47
chr-6.trna372-Tyr-GTA    GAAUC-UGUGGUGCAAUGGU---AGCACAACUGACUGUAUGUCAGGAGA---------U- 46
chr-9.trna95-Tyr-GTA     CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-7.trna557-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-9.trna104-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-7.trna135-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-11.trna249-Tyr-GTA   CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-1.trna146-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-6.trna465-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-6.trna239-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-6.trna238-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-6.trna84-Tyr-GTA     CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-3.trna277-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-1.trna609-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-1.trna610-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-1.trna611-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-7.trna251-Tyr-GTA    CCGGC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-3.trna15-Tyr-GTA     CCGAC-UUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-9.trna198-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGC--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-11.trna197-Tyr-GTA   CCGAC-CUUAGCUCAGUUGGU--AGAGUGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-1.trna608-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-3.trna14-Tyr-GTA     CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UU 48
chr-2.trna184-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-7.trna19-Tyr-GTA     CCGAC-CUUAGCUCAGUUUGU--AGAGCGGAGCACUGUAGAUCCUUAGG---------UC 48
chr-7.trna20-Tyr-GTA     CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAAGACUGUAGACCCUUAGG---------UC 48
chr-7.trna279-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 48
chr-1.trna213-Tyr-GTA    CCUAC-CUUAGCUCAGUUGGU--AGAGCGAAGGACUGUAGAUCCUUAGG---------UC 48
chr-2.trna183-Tyr-GTA    CCGAC-CUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAUAUCCUUAGG---------UC 48
chr-8.trna190-Tyr-GTA    AGCUCAGUUAGCUCAGUUGGU--AGAGCGGAGGACUGUAGAUCCUUAGG---------UC 49
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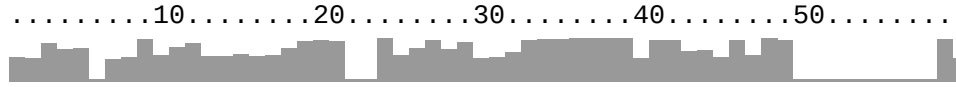
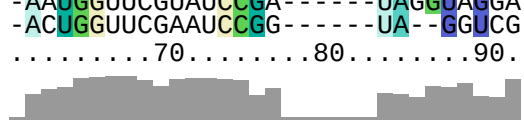
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chr-9.trna43-Tyr-GTA     CAUAGGUUCGAAUCCUA------CCUCUCCCA 84
chr-2.trna134-Tyr-GTA    CGUAGUUUCGAAUCCUA------CCUCUCCCA 84
chr-2.trna338-Tyr-GTA    CGUAGGUUCGAAUCCUA------UCUCUCCAA 84
chr-9.trna409-Tyr-GTA    CGUAGGUUCGAAUCCUA------CCUCUCCCA 84
chr-11.trna204-Tyr-GTA   CGUAGGUUUGGAUCCUA------CCUCUCCCA 84
chr-5.trna47-Tyr-GTA     CGUAGGUUUGAAUCUUA------CCUCUCCCA 84
chr-9.trna183-Tyr-GTA    CGUAGGUUCGAAUCCUA------CCACUCUCA 84
chr-5.trna445-Tyr-GTA    CGUAGGUUCGAAUGCUA------CCUCUCCCA 84
chr-2.trna274-Tyr-GTA    CGUAGGUUCGAAUCCUAUUCCUACCUCUCCCA 91
chr-6.trna155-Tyr-GTA    UGCUGGUUCAAAUCCAG------CUCGGCCCA 84
chr-11.trna112-Tyr-GTA   CGCUGGUUCAAAUCCAG------CUCGGCCCA 84
chr-11.trna57-Tyr-GTA    CUCUGGUUCAAAUCCAG------CUCGGCCCA 84
chr-1.trna475-Tyr-GTA    CGCUGGUUCAAAUCCAG------CUCGGCCUA 83
chr-6.trna249-Tyr-GTA    CGCUGGUUCAAAUCCAG------CUCGGCCCA 83
chr-1.trna465-Tyr-GTA    CGCUGGUUCAAAUCUAG------CUCGGCCCA 83
chr-9.trna317-Tyr-GTA    CGCUGGUUCAAAUCCAG------CUCGGCCCA 83
chr-7.trna53-Tyr-GTA     UGCUGGUUCAAAUCCAU------CUCGACCCA 83
chr-8.trna130-Tyr-GTA    -CCGGGUUCGAUCCUCG------GCAGCGGCG 72
chr-6.trna372-Tyr-GTA    -GUGUGUUCGACUCACG------CUAGAUUCA 71
chr-9.trna95-Tyr-GTA     -ACUGGUUCGAAUCCGG------UAGGUCGGA 73
chr-7.trna557-Tyr-GTA    -ACUGGUUCGAAUCCGG------UAGGUCGGA 73
chr-9.trna104-Tyr-GTA    -ACUGGUUCGAAUCCGG------UAGGUCGGA 73
chr-7.trna135-Tyr-GTA    -ACUGGUUCGAAUCCGG------UAGGUCGGA 73
chr-11.trna249-Tyr-GTA   -ACUGGUUCGAAUCCGG------UAGGUCGGA 73
chr-1.trna146-Tyr-GTA    -ACUGGUUCGAAUCCGG------UAGGUCGGA 73
chr-6.trna465-Tyr-GTA    -ACUGGUUCGAAUCCGG------UAGGUCGGA 73
chr-6.trna239-Tyr-GTA    -ACUGGUUCGAAUCCGG------UAGGUCGGA 73
chr-6.trna238-Tyr-GTA    -ACUGGUUCGAAUCCGG------UAGGUCGGA 73
chr-6.trna84-Tyr-GTA     -ACUGGUUCGAAUCCGG------UAGGUCGGA 73
chr-3.trna277-Tyr-GTA    -ACUGGUUCGAAUCCGG------UAGGUCGGA 73
chr-1.trna609-Tyr-GTA    -ACUGGUUCGAAUCCGG------UAGGUCGGA 73
chr-1.trna610-Tyr-GTA    -ACUGGUUCGAAUCCGG------UAGGUCGGA 73
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chr-7.trna251-Tyr-GTA    -ACUGGUUCGAAUCCGG------UAGGUCGGA 73
chr-3.trna15-Tyr-GTA     -ACUGGUUCGAAUCCGG------UAAGUCGGA 73
chr-9.trna198-Tyr-GTA    -ACUGGUUCGAAUCCGG------UAGGUCGGA 73
chr-11.trna197-Tyr-GTA   -ACUGGUUUGAAUCCGG------UAGGUUGGA 73
chr-1.trna608-Tyr-GTA    -ACUGGUUCGAAUCCGG------UAGGUCUGA 73
chr-3.trna14-Tyr-GTA     CACUGGUUCGAAUCCGG------UAGGUCGGA 74
chr-2.trna184-Tyr-GTA    -AAUGGUUCGUAUCCGA------UAGGUCGGA 73
chr-7.trna19-Tyr-GTA     -ACUGGUUCUAAUCCGG------UAGGUCGGA 73
chr-7.trna20-Tyr-GTA     -ACUGGUUUGAAUCCGG------UAGGUAGAA 73
chr-7.trna279-Tyr-GTA    -ACUUGUUCCAAUUCGG------UAGGUCGGA 73
chr-1.trna213-Tyr-GTA    -AUUGGUUCGAAUCCGG------UAGGUCGGA 73
chr-2.trna183-Tyr-GTA    -AAUGGUUCGUAUCCGA------UAGGUAGGA 73
chr-8.trna190-Tyr-GTA    -ACUGGUUCGAAUCCGG------UA--GGUCG 72
                         .........70........80........90.
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