

Table 1. Input data, one line per taxon [lines are wrapped for printing purposes only]

ATTACAGGA----TGCTGGGC-----GCAAG-----CCCGTGCAGA----C----ACGT-----GGAT--AAG-----CAAGGATAAAAAAT----ACATT-----AAATTTATTTAGT-----TT-A--GTCAAGAAAG--
--AAT-TTTAAAACTTTCAACAATGGATCTCTTGGTTCTCGCGTCGATGAAGAGCGCAGCGAATTGCGATACTTAATGTGAATTGCAGATTTTCGTGAATCATCGAGTTCTTGAACGCACATTGCGCCCTCTGGTATCCGGAGGGCATGCCTGTTTGAGCGT
CATTTCCCTTCTCACTATTT---AGTGGTTATGAGATTACACG--AGGGTGTTTTCTTCAAAGGAAAGAGGGGAGAG-----TGAGGGGA-TAATGATT-TAAGTTTTCGGCCG-TTCATTATTTTTTTT-C-----TTCTC
CCCCAGTTATC-AAGTTTGACCTCAA
ATTACAGGA----TGCTGGGC-----GCAAG-----CCCGTGCAGA----C----ACGT-----GGAT--AAG-----TAAGGATAAAAAAT----ACATT-----AAATTTATTTAGT-----TTA--GTCAAGAAAG--
--AAT-TTTAAAACTTTCAACAATGGATCTCTTGGTTCTCGCGTCGATGAAGAGCGCAGCGAATTGCGATACTTAATGTGAATTGCAGATTTTCGTGAATCATCGAGTTCTTGAACGCACATTGCGCCCTCTGGTATCCGGAGGGCATGCCTGTTTGAGCGT
CATTTCCCTTCTCACTATTT---AGTGGTTATGAGATTACACG--AGGGTGTTTTCTTCAAAGGAAAGAGGGGAGAG-----TGAGGGGA-TAATGATT-TAAGTTTTCGGCCG-TTCATTATTTTTTTT-C-----TTCTC
CCCCAGTTATC-AAGTTTGACCTCAA
ATTACAGGA----TGCTGGGC-----GCAAG-----CCCGTGCAGA----C----ACGT-----GGAT--AAG-----CAAGGATAAAAAAT----ACATT-----AAATTTATTTAGT-----TT-A--GTCAAGAAAG--
--AAT-TTTAAAACTTTCAACAATGGATCTCTTGGTTCTCGCGTCGATGAAGAGCGCAGCGAATTGCGATACTTAATGTGAATTGCAGATTTTCGTGAATCATCGAGTTCTTGAACGCACATTGCGCCCTCTGGTATCCGGAGGGCATGCCTGTTTGAGCGT
CATTTCCCTTCTCACTATTT---AGTGGTTATGAGATTACACG--AGGGTGTTTTCTTCAAAGGAAAGAGGGGAGAG-----TGAGGGGA-TAATGATT-TAAGTTTTCGGCCG-TTCATTATTTTTTTT-C-----TTCTC
CCCCAGTTATC-AAGTTTGACCTCAA
ATTACAGGA----TGCTGGGC-----GCAAG-----CCCGTGCAGA----C----ACGT-----GGAT--AAG-----CAAGGATAAAAAAT----ACATT-----AAATTTATTTAGT-----TT-A--GTCAAGAAAG--
--AAT-TTTAAAACTTTCAACAATGGATCTCTTGGTTCTCGCGTCGATGAAGAGCGCAGCGAATTGCGATACTTAATGTGAATTGCAGATTTTCGTGAATCATCGAGTTCTTGAACGCACATTGCGCCCTCTGGTATCCGGAGGGCATGCCTGTTTGAGCGT
CATTTCCCTTCTCACTATTT---AGTGGTTATGAGATTACACG--AGGGTGTTTTCTTCAAAGGAAAGAGGGGAGAG-----TGAGGGGA-TAATGATT-TAAGTTTTCGGCCG-TTCATTATTTTTTTT-C-----TTCTC
CCCCAGTTATC-AAGTTTGACCTCAA
ATTACAGGA----TGCTGGGC-----GCAAG-----CCCGTGCAGA----C----ACGT-----GGAT--AAG-----CAAGGATAAAAAAT----ACATT-----AAATTTATTTAGT-----TT-A--GTCAAGAAAG--
--AAT-TTTAAAACTTTCAACAATGGATCTCTTGGTTCTCGCGTCGATGAAGAGCGCAGCGAATTGCGATACTTAATGTGAATTGCAGATTTTCGTGAATCATCGAGTTCTTGAACGCACATTGCGCCCTCTGGTATCCGGAGGGCATGCCTGTTTGAGCGT
CATTTCCCTTCTCACTATTT---AGTGGTTATGAGATTACACG--AGGGTGTTTTCTTCAAAGGAAAGAGGGGAGAG-----TGAGGGGA-TAATGATT-TAAGTTTTCGGCCG-TTCATTATTTTTTTT-C-----TTCTC
CCCCAGTTATC-AAGTTTGACCTCAA
ATTACAGGA----TGCTGGGC-----GCAAG-----CCCGTGCAGA----C----ACGT-----GGAT--AAG-----CAAGGATAAAAAAT----ACATT-----AAATTTATTTAGT-----TT-A--GTCAAGAAAG--
--AAT-TTTAAAACTTTCAACAATGGATCTCTTGGTTCTCGCGTCGATGAAGAGCGCAGCGAATTGCGATACTTAATGTGAATTGCAGATTTTCGTGAATCATCGAGTTCTTGAACGCACATTGCGCCCTCTGGTATCCGGAGGGCATGCCTGTTTGAGCGT
CATTTCCCTTCTCACTATTT---AGTGGTTATGAGATTACACG--AGGGTGTTTTCTTCAAAGGAAAGAGGGGAGAG-----TGAGGGGA-TAATGATT-TAAGTTTTCGGCCG-TTCATTATTTTTTTT-C-----TTCTC
CCCCAGTTATC-AAGTTTGACCTCAA
ATTACAGGA----TGCTGGGC-----GCAAG-----CCCGTGCAGA----C----ACGT-----GGAT--AAG-----CAAGGATAAAAAAT----ACATT-----AAATTTATTTAGT-----TT-A--GTCAAGAAAG--
--AAT-TTTAAAACTTTCAACAATGGATCTCTTGGTTCTCGCGTCGATGAAGAGCGCAGCGAATTGCGATACTTAATGTGAATTGCAGATTTTCGTGAATCATCGAGTTCTTGAACGCACATTGCGCCCTCTGGTATCCGGAGGGCATGCCTGTTTGAGCGT
CATTTCCCTTCTCACTATTT---AGTGGTTATGAGATTACACG--AGGGTGTTTTCTTCAAAGGAAAGAGGGGAGAG-----TGAGGGGA-TAATGATT-TAAGTTTTCGGCCG-TTCATTATTTTTTTT-C-----TTCTC
CCCCAGTTATC-AAGTTTGACCTCAA
ATTACAGGA----TGCTGGGC-----GCAAG-----CCCGTGCAGA----C----ACGT-----GGAT--AAG-----CAAGGATAAAAAAT----ACATT-----AAATTTATTTAGT-----TT-A--GTCAAGAAAG--
--AAT-TTTAAAACTTTCAACAATGGATCTCTTGGTTCTCGCGTCGATGAAGAGCGCAGCGAATTGCGATACTTAATGTGAATTGCAGATTTTCGTGAATCATCGAGTTCTTGAACGCACATTGCGCCCTCTGGTATCCGGAGGGCATGCCTGTTTGAGCGT
CATTTCCCTTCTCACTATTT---AGTGGTTATGAGATTACACG--AGGGTGTTTTCTTCAAAGGAAAGAGGGGAGAG-----TGAGGGGA-TAATGATT-TAAGTTTTCGGCCG-TTCATTATTTTTTTT-C-----TTCTC
CCCCAGTTATC-AAGTTTGACCTCAA
ATTACAGGA----TGCTGGGC-----GCAAG-----CCCGTGCAGA----AAC----ACAT-----GTAT--GAGGAAATATAGGGAGAAATCC----ATATA-----AAACACGCAAAAT--ATATTTTA--GTCAAATAAAAT
GAAAA-TTTAAAACTTTCAACAATGGATCTCTTGGTTCTCGCGTCGATGAAGAGCGCAGCGAATTGCGATACTTAATGTGAATTGCAGATTTTCGTGAATCATCGAGTTCTTGAACGCACATTGCGCCCTCTGGTATCCGGAGGGCATGCCTGTTTGAGCG
TCATTTCCCTTCTCACTTCTCTGGAGTGGTTATGAGAATACCGG--GTAGTGTTTTCTTGAAGAGGAAAGGGGAAAGCCCGTGGGGAGTATACTGGGAGGAGTAATAAATACAAGGTTTCGGCCGATTTATTGCGTCTTCTAGCAACTCTACTGAGTCCC
CCCCAATTTTCTAAGTTTGACCTCAA
ATTACAGGA----TGCTGGGC-----GCAAG-----CCCGTGCAGA--AAC----ACAT-----GTAT--GAGGAAATATAGGGAGAAATCC----ATATA-----AAACACGCAAAAT--ATATTTTA--GTCAAATAAAAT
GAAAA-TTTAAAACTTTCAACAATGGATCTCTTGGTTCTCGCGTCGATGAAGAGCGCAGCGAATTGCGATACTTAATGTGAATTGCAGATTTTCGTGAATCATCGAGTTCTTGAACGCACATTGCGCCCTCTGGTATCCGGAGGGCATGCCTGTTTGAGCG
TCATTTCCCTTCTCACTTCTCTGGAGTGGTTATGAGAATACCGG--GTAGTGTTTTCTTGAAGAGGAAAGGGGAAAGCCCGTGGGGAGTATACTGGGAGGAGTAATAAATACAAGGTTTCGGCCGATTTATTGCGTCTTCTAGCAACTCTACTGAGTCCC
CCCCAATTTTCTAAGTTTGACCTCAA
ATTACAGGA----AGC-GAAC-----ACGAG-----GCGTCAGCCG--AGT---GCAA-----GCAT--TATACATGTTTTATTAGTACAT--ACA-----AACACAACAAC--CAAAATTT--ATCAACACTTT
A-----TTAAAACTTTCAACAATGGATCTCTTGGTTCTCGCGTCGATGAAGAGCGCAGCGAATTGCGATACTTAATGTGAATTGCAGATTTTCGTGAATCATCGAGTTCTTGAACGCACATTGCGCCCTCTGGTATCCGGGGGGCATGCCTGTTTGAGCG
TCATTTCCCTTCTCACTATAC--AGTAGTTTGA-----TG--ACGGCACC-----GCGTGGGTCGGTCAAGAGAAT-----GACAGTTAACGGA-GTAAGGTTTCGACCAGT-CGTTG-----ACTT-----
-----TTATCTACGATTGACCTCAA
ATTACGAAAGTCGTGCTGGCTGAGGTTGAAAGTTTACACTTCTACTGCTTCCCGTGCACACTAATACTATTACACCTGCTTGAATCAGGATAAATGGACGTTTCAATTTTGTGACGTCACAAAAAACAATTTAAATCTATATTTATTGTGCAAAATTAC
AAAAAGTTTAAAACTTTCAACAACGGATCTCTTGGTTCTCGCATCGATGAAGAGCGCAGCGAATTGCGATACTTAATGTGAATTGCAGATTTTCGTGAATCATCGAGTTCTTGAACGCACATTGACCCCTCTGGTATCCGGGGGATTCCTGTTTGAGCG
TCATTTCCCTTCTCAC--GC---AAGTGGTTTGAAGATACCTCTCGTGGGTTTCTTCAAAGGAA---TTCTGAATTTAGTTGGCTTCTTGT---GCTAACACCGGTTTAAAGGTTTCGACC-ATTCGTTGAA-----AGCAAAAAGTAGTCAATGAC
C-----TTG---ACGTTTGACCTCAA