

CLUSTAL O(1.2.4) multiple sequence alignment

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A.tumefaciens      CGTGACCCGCTCCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAT 60
N.galegae          CGTGACCCGCTGCTGATGGCGCTTGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAT 60
T4_1               GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAT 60
T4_8               GTGACCTCGCTTCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAT 60
T22_47            GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGCCCCaCCTTCTAT 60
T7_7               GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAC 60
T5_2               GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAT 60
T7_11             GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAT 60
T6_21             GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAT 60
T7_12             GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAT 60
T16_9             GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGCCCCACCTACAAT 60
T5_26             GTGACCTCGCTTCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAT 60
T24_19            GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGATCTTCACT 60
T20_10            GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAT 60
T11_12            GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAT 60
T21_15            GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAC 60
T25_7             GTGACCTCGCTGCTGATGGCGCTTGGCATGGATGGCGAAGAAATCCTGTCGACCTTCTAC 60
T6_1              GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAC 60
T13_2             GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAT 60
T25_13            GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAC 60
T23_12            GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAT 60
T6_25            GTGACCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGAAATCCTGTCGACCTTCTAT 60
N.alkalisoli      GGTATCGCGCTGCTGATGGCGCTTGGAAATGGATGGCGAAGACATTTCTGTCGACCTTCTAT 60
N.huautlense      GGTATCTCGCTGCTGATGGCGCTCGGCATGGACGGCGAAGACATTTCTGTCGACCTTCTAT 60
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A.tumefaciens      ACCAAGGCTACCTACGAGCGCGCGGCTGACGGCTGGCGTATCCCGTTCCAGCCTGACGGG 120
N.galegae          ACGAAGTCGTCTTATCAGCGCGACGGCGATGGCTGGCGGATTCGGTTCCAGCCGGAAACT 120
T4_1               ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T4_8               ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T22_47            ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T7_7               ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T5_2               ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T7_11             ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T6_21             ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T7_12             ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T16_9             ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T5_26             ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T24_19            ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T20_10            ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T11_12            ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T21_15            ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T25_7             ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T6_1              ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T13_2             ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T25_13            ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T23_12            ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
T6_25            ACGAAGTCGTCTTATCAGCGCGACGGCGAAGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
N.alkalisoli      TCGAAGTCCAACACTACGAGCGCGATGGCGATGGCTGGCGGATTCGGTTCCAGCCGGAGAC 120
N.huautlense      TCGAAGTCCAACACTACGAGCGCGATGGCGATGGCTGGCGGATTCGGTTCCAGCCGGAAACC 120
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A.tumefaciens      CTGAAGAATGCCAAGGTCATCACCGACATGATCGACGCCGACACCGGCGAAGTTGTTGTC 180
N.galegae          CTGAAGGGTGCCAAGACCCTTTCCGACATGATGACGCCGATACCGGCGAAGTGGTTGTC 180
T4_1               CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T4_8               CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T22_47            CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T7_7               CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T5_2               CTGAAGGGTGCAAAAACCCCTTTCCGATATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T7_11             CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T6_21             CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T7_12             CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T16_9             CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T5_26             CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T24_19            CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T20_10            CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T11_12            CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T21_15            CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T25_7             CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T6_1              CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T13_2             CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T25_13            CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T23_12            CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180
T6_25            CTGAAGGGTGCAAAAACCCCTTTCCGACATGATCGACGCCGATACCGGCGAAGTGGTTGTC 180

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N.alkalisoli	TTGAAGGGCGCCAAGACTCTTTCAGACATGATCGACGCCACACCGGCAAGTGGTGGTC	180
N.huautlense	CTCAAGGGTGCCAAGACCCTTTCAGACATGATCGACGCCACACCGGCAAGTGGTGGTC	180
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A.tumefaciens	GAGGGTGGCAAGAAGCTGACCCCGCGCCTTATCCGCCAGCTCGTCGACAAGGGCCTGAAG	240
N.galegae	GAATCCGGCAAAAAGCTCACGCCGCGCCTTCTCCGTCAGCTGACGGACAAGGGCCTGAAG	240
T4_1	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGACAAGGGCCTCAAG	240
T4_8	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGACAAGGGCCTCAAG	240
T22_47	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T7_7	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T5_2	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T7_11	GAATCTGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T6_21	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T7_12	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T16_9	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T5_26	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T24_19	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T20_10	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T11_12	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T21_15	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T25_7	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T6_1	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T13_2	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T25_13	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T23_12	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
T6_25	GAATCCGGCAAGAAGCTCAACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTTGAAG	240
N.alkalisoli	GAGTCCGGCAAGAAGCTGACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTCAAG	240
N.huautlense	GAGTCCGGCAAGAAGCTGACCCCGCTTCTCCGTCAGCTGACGGAGAAGGGCTCAAG	240
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A.tumefaciens	GCGCTTAAGGCGACTGACGAAGACCTTACGGAAACTTCTGCGCAAGACATCGTCAAC	300
N.galegae	GCGTTGAAGGCAACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T4_1	GCCCTGAAGGCCACCAATGACGACATCTACGGTAACTATCTTGCCGAAGACATCGTCAAC	300
T4_8	GCCCTGAAGGCCACCAATGACGACATCTACGGTAACTATCTTGCCGAAGACATCGTCAAC	300
T22_47	GCGTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T7_7	GCGTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T5_2	GCGTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T7_11	GCGTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T6_21	GCGTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T7_12	GCGTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T16_9	GCGTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T5_26	GCCTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T24_19	GCCTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T20_10	GCCTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T11_12	GCCTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T21_15	GCCTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T25_7	GCCTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T6_1	GCCTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T13_2	GCGTTGAAGGCAACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T25_13	GCCTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T23_12	GCCTTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
T6_25	GCCCTGAAGGCGACCAATGACGACATCTACGGCAACTATCTTGCCGAAGACATCGTCAAC	300
N.alkalisoli	GCACTCAAGGCAACCAACGACGATCTTACGGCAACTATCTCGCCGAAGATGTCGTCAAC	300
N.huautlense	GCGCTCAAGGCAACCAATGACGATCTTACGGCAACTATCTCGCCGAAGACATCGTCAAC	300
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A.tumefaciens	TACGAGACGGGTGAAATCTATCTCGAAGCTGGCGACGAAATCGACGAGAAGACGCT	356
N.galegae	GCGGCAACCGGCGAGATCTACCTCGAAGCCGGCGACGAGATCGACGAAAAGACCCT	356
T4_1	GCGGCGACCGGCGAAATCTACCTCGAAGCCGGCGACGAGATCGACGAAAAGACCCT	356
T4_8	GCGGCGACCGGCGAAATCTACCTCGAAGCCGGCGACGAGATCGACGAAAAGACCCT	356
T22_47	GCGGCAACCGGCGAGATCTACCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T7_7	GCGGCAACCGGCGAGATCTACCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T5_2	GCGGCAACCGGCGAGATCTACCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T7_11	GCGGCAACCGGCGAGATCTACCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T6_21	GCGGCAACCGGCGAGATCTACCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T7_12	GCGGCAACCGGCGAGATCTACCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T16_9	GCGGCAACCGGCGAGATCTACCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T5_26	GCGGCAACCGGCGAGATCTACCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T24_19	GCGGCAACCGGCGAGATCTATCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T20_10	GCGGCAACCGGCGAGATCTACCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T11_12	GCGGCAACCGGCGAGATCTATCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T21_15	GCGGCAACCGGCGAGATCTATCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T25_7	GCGGCAACCGGCGAGATCTACCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T6_1	GCGGCAACCGGCGAAATCTACCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T13_2	GCGGCAACCGGCGAGATCTACCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T25_13	GCGGCAACCGGCGAGATCTACCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356
T23_12	GCGGCAACCGGCGAGATCTACCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT	356

T6_25

N.alkalisoli
N.huatlense

GCGCAACCGCGAGATCTACCTCGAAGCCGGCGACGAAATCGACGAAAAGACCCT
ACGGAACCGGTGAGATTTATCTCGAGCCGGCGACGAGATCGACGAGAAGACCCT
ATGGAACCGGTGAGATTTATCTCGAAGCCGGCGACGAGATCGACGAGAAGACCCT
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