**ClustalW multiple sequence alignment of cpDNA sequences**

6 Sequences Aligned Processing time: 66 mins 3971 secs

Gaps Inserted = 17 Conserved Identities = 126686

Score = 175488372

Pairwise Alignment Mode: Fast

Pairwise Alignment Parameters:

ktup = 2 Gap Penalty = 5 Top Diagonals = 4 Window Size = 4

Multiple Alignment Parameters:

Open Gap Penalty = 15.0 Extend Gap Penalty = 6.7

Delay Divergent = 30% Transitions: Weighted

Lsat\_Salinas 1 TAAATTCAATTTGGGCGAACGACGGGAATTGAACCCGCGCATGGTGGATT 50

Lsat\_WENDEL 1 TAAATTCAATTTGGGCGAACGACGGGAATTGAACCCGCGCATGGTGGATT 50

Lser\_US96UC23 1 TAAATTCAATTTGGGCGAACGACGGGAATTGAACCCGCGCATGGTGGATT 50

Lser\_LAC005780 1 TAAATTCAATTTGGGCGAACGACGGGGATTGAACCCGCGCGTGGTGGATT 50

Lvir\_CGN013357 1 TAAATTAAATTTGGGCGAACGACGGGAATTGAACCCGCGCGTGGTGGATT 50

Lsal\_LAC008020 1 TAAATTAAATTTGGGCGAACGACGGGGATTGAACCCGCGCGTGGTGGATT 50

Lsat\_Salinas 51 CACAATCCACTGCCTTGATCCACTTGGCTACATCCGCCCCTCTACTATTA 100

Lsat\_WENDEL 51 CACAATCCACTGCCTTGATCCACTTGGCTACATCCGCCCCTCTACTATTA 100

Lser\_US96UC23 51 CACAATCCACTGCCTTGATCCACTTGGCTACATCCGCCCCTCTACTATTA 100

Lser\_LAC005780 51 CACAATCCACTGCCTTGATCCACTTGGCTACATCCGCCCCTCTACTATTA 100

Lvir\_CGN013357 51 CACAATCCACTGCCTTGATCCACTTGGCTACATCCGCCCCTCTACTATTA 100

Lsal\_LAC008020 51 CACAATCCACTGCCTTGATCCACTTGGCTACATCCGCCCCTCTACTATTA 100

Lsat\_Salinas 101 TCTAGTATTTCTAGATTTTTCCATTAACAGAAAAAAAAAGAGCATATTAT 150

Lsat\_WENDEL 101 TCTAGTATTTCTAGATTTTTCCATTAACAGAAAAAAAAAGAGCATATTAT 150

Lser\_US96UC23 101 TCTAGTATTTCTAGATTTTTCCATTAACAGAAAAAAAAAGAGCATATTAT 150

Lser\_LAC005780 101 TCTAGTATTTCTAGATTTTTCCATTAACAGAAAAAAAAAGAGCATATTAT 150

Lvir\_CGN013357 101 TCTAGTATTTCTAGATTTTTCCATTAACAGAAAAAAAAAGAGCATATTAT 150

Lsal\_LAC008020 101 TCTAGGATTTCTAGATTTTTCCATTAACAGAAAAAAAAAGAGCATATTAT 150

Lsat\_Salinas 151 TTCTTTCTTATTTTCTTTCTTATTTCTGAAATCAAAGAAATAAATAATAA 200

Lsat\_WENDEL 151 TTCTTTCTTATTTTCTTTCTTATTTCTGAAATCAAAGAAATAAATAATAA 200

Lser\_US96UC23 151 TTCTTTCTTATTTTCTTTCTTATTTCTGAAATCAAAGAAATAAATAATAA 200

Lser\_LAC005780 151 TTCTTTCTTATTTTCTTTCTTATTTCTGAAATCAAAGAAATAAATAATAA 200

Lvir\_CGN013357 151 TTCTTTCTTATTTTCTTTCTTATTTCTGAAATCAAAGAAATAAATAATAA 200

Lsal\_LAC008020 151 TTCTTTCTTATTTTCTTTCTTATTTCTGAAATCAAAGAAATAAATAATAA 200

Lsat\_Salinas 201 AAATTTTCATTTTTATCTATTTTAGATTGAAATTCAATTGTAAATCAAAC 250

Lsat\_WENDEL 201 AAATTTTCATTTTTATCTATTTTAGATTGAAATTCAATTGTAAATCAAAC 250

Lser\_US96UC23 201 AAATTTTCATTTTTATCTATTTTAGATTGAAATTCAATTGTAAATCAAAC 250

Lser\_LAC005780 201 AAATTTTCATTTTTATCTATTTTAGATTGAAATTCAATTGTAAATCAAAC 250

Lvir\_CGN013357 201 AAATTTTCATTTTTATCTATTTTAGATTGAAATTCAATTGTAAATCAAAC 250

Lsal\_LAC008020 201 AAATTTTCATTTTTATCTATTTTAGATTGAAATTCAATTGTAAATCAAAC 250

Lsat\_Salinas 251 TTCATAAAACATTGGGAAAAGAATATATAAACCTCTAAATTAATACAAAG 300

Lsat\_WENDEL 251 TTCATAAAACATTGGGAAAAGAATATATAAACCTCTAAATTAATACAAAG 300

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Lsal\_LAC008020 301 AGAAAACATGCTAATCGAACCAAACAAAAGACCTTGTTATTTCTAAAGAA 350

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Lsat\_WENDEL 351 ACTATGTAAGGCAAATACTACTAAATAAAAAAAAAGGAGCAATAGCTTCC 400

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Lsat\_WENDEL 401 CTCTTGTTTTATCAAGAGGGCGTTATTGCTCCTTTTTTAGTTCAAAAACT 450

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Lsal\_LAC008020 401 CTCTTGTTTTATCAAGAGGGCGTTATTGCTCCTTTTTTAGTTCAAAAACT 450

Lsat\_Salinas 451 CCTATACAATTACAATAAGACCAAAGTCTTATCCATTTGTAGATGGAGCT 500

Lsat\_WENDEL 451 CCTATACAATTACAATAAGACCAAAGTCTTATCCATTTGTAGATGGAGCT 500

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Lsal\_LAC008020 1051 CAATTGGGTAGATCAAGAAAACAGCAGTCGCAGCTGCAACAGGAGCTGAA 1100

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Lsat\_WENDEL 1101 TATGCAACAGCAATCCAAGGTCGCATACCCAGACGGAAACTAAGCTCCCA 1150

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Lsal\_LAC008020 1101 TATGCAACAGCAATCCAAGGTCGCATACCCAGACGGAAACTAAGCTCCCA 1150

Lsat\_Salinas 1151 CTCACGACCCATGTAACAAGCTACACCAAGTAAGAAGTGTAGAACAATTA 1200

Lsat\_WENDEL 1151 CTCACGACCCATGTAACAAGCTACACCAAGTAAGAAGTGTAGAACAATTA 1200

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Lsal\_LAC008020 1151 CTCACGACCCATGTAACAAGCTACACCAAGTAAGAAGTGTAGAACAATTA 1200

Lsat\_Salinas 1201 GTTCATAAGGACCACCATTGTATAACCATTCATCAACGGATGCTGCTTCC 1250

Lsat\_WENDEL 1201 GTTCATAAGGACCACCATTGTATAACCATTCATCAACGGATGCTGCTTCC 1250

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Lsal\_LAC008020 1401 ACAGAAGTTGCGGTCAATAAGGTAGGGATCATCAAAACACCAAACCATCC 1450

Lsat\_Salinas 1451 AATGTAAAGACGGTTTTCGGTGCTGGTTATCCAGTTACAGAAGCGACCCC 1500

Lsat\_WENDEL 1451 AATGTAAAGACGGTTTTCGGTGCTGGTTATCCAGTTACAGAAGCGACCCC 1500

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Lsat\_WENDEL 1901 CTAAAACTCAGTTCCTTCATTAGACAAGAAAAGATTGAATACTCAGTTGA 1950

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Lser\_US96UC23 80001 TAAGAAGTTTCGTATTGAATTCGGATATTAGAAGGATTACCATATATAAC 80050

Lser\_LAC005780 80000 TARKMARTTTMGKATYKAATTCGGATATTAGAAGGATTACCATATATAAC 80049

Lvir\_CGN013357 79999 TAAGAAGTTTCGTATTGAATTCGGATATTAGAAGGATTACCATATATAAC 80048

Lsal\_LAC008020 79978 TARKMARTTTMGKATYKAATTCGGATATTAGAAGGATTACCATATATAAC 80027

Lsat\_Salinas 80051 ACAAAATTTCTCCGCCTATTCTTTCTAGTCGAGCCTCTCGGTCTGTCATT 80100

Lsat\_WENDEL 80051 ACAAAATTKMTCCGCCKATTCYTTCKARTCKAGCCTCYCGGTCTGTCATT 80100

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Lsal\_LAC008020 80028 ACAAAATTKMTCCGCCKATTCYTTCKARTCKAGCCTCYCGGTCTGTCATT 80077

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Lsat\_WENDEL 80101 ATACCYYGAGARGTMKAAAKAATTACAATCCCCATCCCRCCTAAAATTYK 80150

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Lser\_LAC005780 80100 ATACCYYGAGARGTMKAAAKAATTACAATCCCCATCCCACCTAAAATTYT 80149

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Lser\_LAC005780 127450 ATGACAAAATAAAAAATTCTATATATGATTGGTCATATAATCGGGGTTAC 127499

Lvir\_CGN013357 127346 ATGACAAAATAAAAAATTCTATATATGATTGGTCATATAATCGGGGTTAC 127395

Lsal\_LAC008020 127278 ATGACAAAATAAAAAATTCTATATATGATTGGTCATATAATCGGGGTTAC 127327

Lsat\_Salinas 127501 ATAGATGCCTTTTATGGAAGATTCTTAACTGCGGGGATTAGAAAATTGGC 127550

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Lser\_LAC005780 127500 ATAGATGCCTTTTATGGAAGATTCTTAACTGCGGGGATTAGAAAATTGGC 127549

Lvir\_CGN013357 127396 ATAGATGCCTTTTATGGAAGATTCTTAACTGCGGGGATTAGAAAATTGGC 127445

Lsal\_LAC008020 127328 ATAGATGCCTTTTATGGAAGATTCTTAACTGCGGGGATTAGAAAATTGGC 127377

Lsat\_Salinas 127551 CAACTTTGCTCATTTTTTTGATAGACGAATAATTGATGCAATTCCAAATG 127600

Lsat\_WENDEL 127551 CAACTTTGCTCATTTTTTTGATAGACGAATAATTGATGCAATTCCAAATG 127600

Lser\_US96UC23 127551 CAACTTTGCTCATTTTTTTGATAGACGAATAATTGATGCAATTCCAAATG 127600

Lser\_LAC005780 127550 CAACTTTGCTCATTTTTTTGATAGACGAATAATTGATGCAATTCCAAATG 127599

Lvir\_CGN013357 127446 CAACTTTGCTCATTTTTTTGATAGACGAATAATTGATGCAATTCCAAATG 127495

Lsal\_LAC008020 127378 CAACTTTGCTCATTTTTTTGATAGACGAATAATTGATGCAATTCCAAATG 127427

Lsat\_Salinas 127601 GAGTTGGTCTTATGAGTTTCTTTGGAGCAGAGGTTATTAAATCGGTAGGG 127650

Lsat\_WENDEL 127601 GAGTTGGTCTTATGAGTTTCTTTGGAGCAGAGGTTATTAAATCGGTAGGG 127650

Lser\_US96UC23 127601 GAGTTGGTCTTATGAGTTTCTTTGGAGCAGAGGTTATTAAATCGGTAGGG 127650

Lser\_LAC005780 127600 GAGTTGGTCTTATGAGTTTCTTTGGAGCAGAGGTTATTAAATCGGTAGGG 127649

Lvir\_CGN013357 127496 GAGTTGGTCTTATGAGTTTCTTTGGAGCAGAGGTTATTAAATCGGTAGGG 127545

Lsal\_LAC008020 127428 GAGTTGGTCTTATGAGTTTCTTTGGAGCAGAGGTTATTAAATCGGTAGGG 127477

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Lser\_LAC005780 127650 GGTGGGCGTATTTCTTCTTATCTGTTCTTTTATTTTTCTTATGTAGCAAT 127699

Lvir\_CGN013357 127546 GGTGGGCGTATTTCTTCTTATCTGTTCTTTTATTTTTCTTATGTAGCAAT 127595

Lsal\_LAC008020 127478 GGTGGGCGTATTTCTTCTTATCTGTTCTTTTATTTTTCTTATGTAGCAAT 127527

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Lsat\_WENDEL 127701 TTTTTTATTAATTTACTATTTTTTCAATGTTTGAATCT 127738

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Lser\_LAC005780 127700 TTTTTTATTAATTTACTATTTTTTCAATGTTTGAATCT 127737

Lvir\_CGN013357 127596 TTTTTTATTAATTTACTATTTTTTCAATGTTTGAATCT 127633

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