```
Atropa        GTGGAAACGCTTGTTTCTTCCATATTTTGGACCTTAGCTCCATGGAAGAATATGTTACTGCTGAAACACGGAAGAATTGAAATCTTAGATCAAAACACTATGTATGG-ATGGTATGAACTGCCTA
Nicotiana     GTGGAAACGCTTGTTTCTTCCATATTTTGGACCTTAGCTCCATGGAAGAATATGTTACTGCTGAAACACGGAAGAATTGAAATCTTAGATCAAAACACTATGTATGG-ATGGTATGAACTGCCTA
Amborella     GTGGAAACACTCGTTTATTCCATATTTTGGACCTTAGCTCCACGGAACAATATGCTACTGCTGAAACATGGAACAATTGAAATCTTAGATCAAAAAACTATGTATGG-ATGGTATGAACTGCCTA
Nuphar        GTGGAAACACTTGTTTATTCCATATTTTGGACCTTAGCTCCATGGAGCAATATGCTACTGCTGAAACATGGAACAATTGAAATCTTAGATCAAAACACTATGTATGG-ATGGTATGAACTGCCTA
Zea           GTGGAAACACTTGTTGATTCC-TATTTTGGACCCTAGCTCCATGGAACAATATGCTACTGCGGAAACATGGAAGAATTGCAATCTTAGATCAAAACACTATGTATGGGATGATATGAACTGCCTA
Spinacia      GTGGAAACACTTGTTT-TTCCATATTTCGGACCTTAGCTCCATGGAACAATATGCTACTGCTGAAACATGGAAGAATTGAAATCTTAGATCAAAACACTATGTATGG-ATGGTATGAATTGCCTA

Atropa        AACAAGAATTCTTGAACAGCAAACAACCAG-------------------------------------------------------------------------------------
Nicotiana     AACAAGAATTCTTGAACAGCAAACAACCAG-------------------------------------------------------------------------------------
Amborella     AACAAGAATTCTTGAACGGCGAACAACCAG---------------------AACCT-ATTACTCACTACATCAAACAATTTCCATTAATGAAA-----TAAATCTATTGGAAAAGAAAAAATACG
Nuphar        AACAATAATTCTGGAACGGCGAACAACCAGAATGGAACGGCGAACAACCAGAACCT-ATTACTCACTACATCAAACAATTTCCATTAATGAAAC-ATGTAAATCCATTGGAAAATCAAAAATGCG
Zea           AATAAGAATTCTTGAGCGTCGAATAA---------------------------CCTGAGTACTAACTACATCAAACAATTTGCATTAATGAAACTGTGTAAATCCACCGGATAATCAAAAATACG
Spinacia      AACAAGAATTCTTGAACAGCGAACAACCAG---------------------AGCCT-ATTACTCACTCCATCAAAAAATTTCCATTAATGAAAG-ATGTAAATCCATTGGAAAATCAAAAATACG

Atropa        ------------------------------------------------------------------------------------------------------------------
Nicotiana     ------------------------------------------------------------------------------------------------------------------
Amborella     CATGTCCGATGAAATGGTTGTTGCTATCTGCTCCAATAACGAATCATTGGTTTAACTGAATAACTAAATCAAATAGATAGACCTTTCTCTTCGTCTCAGGTCGATAGATCTTCTCAATTGGAATA
Nuphar        CATGTCCGATGAAATGGTTGTTGCTATCTGCTCCAATAACGAATCATTGGTTTAACTGAATAACTAAATAAAATAGATAGACCTTTCTCTTCGTCTCAGGTCGATAGATCTTCTCAATTGGAATA
Zea           CATGTCTGATGAAATGGTTGTTGCTATCTGTTTCCATAACGAATCCTTGGTTTAACTGAATAAGTAAAGAAAATGGGC---CCTTTCTCTTCGTCTCAGATCGATGGATCTTCTCGATTGGAAGA
Spinacia      CATGTCTGATGAAATAGTTGTTGCTATCTGCTCCAATAACGAATCATTGGTTTGACTGAATAACTAAATAAAATAGAAAAA-----------------------------------------

Atropa        ------------------------------------------------------------------------------------------------------TTCAGATATTCACGA
Nicotiana     ------------------------------------------------------------------------------------------------------TTCAGATATTCACGA
Amborella     -----TCTCCTATATGGATAATACACATTCCAGTTGACCGAGCCTAATTCTAATTGTTTTGTTCCGAAGCAAAGCAAAGATATCAACGTAGGCCGGTTCGTCCTA-----TTCAGATATTCACGA
Nuphar        -----TCTCTTATATGGATAATACACATTCCAGTTGACCGAGCCTAATTCTAATTGTTTTGTTCCGAAGCAA-----AGATATCAACGGAGGCCGGTTCGTCCTATTCAG----------CACGA
Zea           -----TCTCCCATATGGATAATACACATTCCAGTTGACCGAGCCTAATGCTAATTGTTTTGTTCCGAAGCAA-----AGATATCCGCGGAGGCCGGTTCGTTCGTCCTA-TTCTGATATTCAGGA
Spinacia      --AAATACCCTATATGGATAATACACATTCCAGTTGACCGAGCCTAATTTTCATTGTTTTGTTCCGAAGCAA-----AGATATCCACGGGG--CGGTTCGTCCTATTCA-TTCAGATATTCACGA

Atropa        CCAAGAAGTACTGGATTCTCTTTCGGATAGGCCC----TGAAAGGAGAAGGAAGGCTGGAATGCCAACAGGCGTCTATTATATTGAATTTACCCGATAG-----
Nicotiana     CCAAGAAGTACTGGATTCTCTTTCGGATAGGCCC----TGAAAGGAGAAGGAAGGCTGGAATGCCAACAGGCGTCTATTATATTGAATTTACCCGATAG-----
Amborella     CCAAGAGGCGCTGAATTCTCTTTCGGATAGGCCC----TGGAAGGAGAAGGAAGGCTGGAATGCCAACAGACGTCTATTATCT--AATTCACCCGATCCGATAG
Nuphar        CCAAGAGGCACTGGATTCTCTTTCGGATAGGCCCTCCCTGAAAGGAGAAGGAAGCCTGGAATGCCAACA---------TATCT--AATTCACCCGACACGATAG
Zea           CCAAGAGGTCCTGGATTCTCTTTCGGATAGGCCC----TGAAAG-------------------------------------------------------
Spinacia      CCAAGAAGTACTGGATTCTCTTTCGAATAGGCCC----TGAAAGTAGAAGGAAGGCTGGAATGCCAACAGGTGTCTATTATST--GAATTCATCCGACCCGATAG
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