```
Zea            ATGGCGTACTCCTCCTGTTTGAATCGGAGTTTGAAACCAAACAAACTTCTCCTCAGGAGGATAGATGGGGCGATTCAGGTGAGATCCCATGTAGATCGAA
Saccharum      ATGGCGTACTCCTCCTGTTTGAATCGGAGTTTGAAACCAAACAAACTTCTCCTCAGGAGGATAGATGGGGCGATTCAGGTGAGATCCCATGTAGATCGAA
Oryza          ATGGCGTACTCCTCCTGTTTGAATCGGAGTTTGAAACCAAACAAACTTCTCCTCAGGAGGATAGATGGGGCGATTCAGGTGAGATCCCATGTAGATCTAA
Triticum       ATGGCGTACTCCTCCTGTTTGAATCGGAGTTTGAAACCAAACAAACTTCTCCTCAGGAGGATAGATGGGGCGATTCAGGTGAGATCCCATGTAGATCTAA
Amborella      ATGGCGTACTCCTCCTGTTCGAGCCGGAGTTTGAAACCAAAC----TTCTCCTCAGGAGGATAGATGGGGCGATTCAGGTGAGATCCAATGTAGATCCAA
Nuphar         ATGGCGTACTCCTCCTGTTCGAACCGGAGTTTGAAACCAAAC----TTCTCCTCAGGAGGATAGATGGAGCGATTCAGGTGAGATCCAATGTAGATCCAA
Nymphaea       ATGGCGTACTCCTCCTGTTCGAACCGGAGTTTGAAACCAAAC----TTCTCCTCAGGAGGATAGATGGAGCGATTCAGGTGAGATCCAATGTAGATCCAA
Calycanthus    ATGGCGTACTCCTCCTGTTCGAACCGGAGTTTGAAACCAAAC----TTCTCCTCAGGAGGATAGATGGGGCGATTCAGGTGAGATCCAATGTAGATCCAA
Acorus         ATGGCGTACTCCTCCTGTTCGAATCGGAGTTTGAAACCAAAC----TTCTCCTCAGGAGGATGGATGGGGCGATTCAGGTGAGATCCAATGTAGATCCAA
Phalaenopsis   ATGGCGTACTCCTCCTGTTCGAATCGGAGTTTGAAACCAAAC----TTCTCCTCAGGAGGATAGATGGGGCGATTCAGGTGAGACCCAATGGAGATCGAA
Ranunculus     ATGGCGTACTCCTCCTGCTCGAACCGGAGTTTGAAACGAAAC----TTCTCCTCAGGAGGATAGATGGGGCGATTCAGGTGAGATCCAATGTAGATCCAA
Nicotiana      ATGGCGTACTCCTCCTGTTCGAACCGGGGTTTGAAACCAAAC----TCCTCCTCAGGAGGATAGATGGGGCGATTCGGGTGAGATCCAATGTAGATCCAA
Arabidopsis    ATGGCGTACTCCTCCTGTTCGAACCGGGGTTTGAAACCAAAC----TTCTCCTCAGGAGGATAGATGGGGCGATTCAGGTGAGATCCAATGTAGATCCAA
Oenothera      ATGGCGTACTTCTCCTGTTCGAACCGGG-TTTGAAACCAAAC----CCCTCCTCAGGAGGATAGATGGGG-GATTCGGGTGAGATCCAATGTAGATCCAA
Eucalyptus     ATGGCGTACTTCTCCTGTTCGAACCGGG-TTTGAAACCAAAC----CTCTCCTCAGGAGGATAGATGGGGCGATTCAGGTGAGATCCAATGTAGATCCAA

Zea            CTTTCTATTCACTCGTGGGATCCGGGCGGTCCGGGGGGGGGCCACCGGGGCTCCTCTCTTCTCGAGAATCCATACATCCCTTATCAGTGTATGGAGAGCT
Saccharum      CTTTCTATTCACTCGTGGGATCCGGGCGGTCCGGGGGGGGGCCACCGCGGCTCCTCTCTTCTCGAGAATCCATACATCCCTTATCAGTGTATGGAGAGCT
Oryza          CTTTCTATTCACTCGTGGGATCCGGGCGGTCCGGGGGGGG--CACTACGGCTCCTCTCTTCTCGAGAATCCATACATCCCTTATCAGTGTATGGAGAGCT
Triticum       CTTTCTATTCACTCGTGGGATCCGGGCGGTCCGGGGGGGGGCCACCACGGCTCCTCTCTTCTCGAGAATCCATACATCCCTTATCAGTGTATGGAGAGCT
Amborella      CTTTCTATTCACTCGCGGGATCCGGGCGGTCCGGGGGG--ACCACCACGGCTCCTCTCTTCTCGAGAATCCATATATCCCTTATCAGTGTATGGACAGCT
Nuphar         CTTTCTGTTCACTCGTGGGATCTGGGCGGTCCGGGGGGGGGCCACCACGGCTCCTCTCTTCTCGAGAATCCATACATTCCTTATCAGTGTATGGACAGCT
Nymphaea       CTTTCTGTTCACTCGTGGGATCTGGGCGGTCCGGGGGGGGGCCACCACGGCTCCTCTCTTCTCGAGAATCCATACATCCCTTATCAGTGTATGGACAGCT
Calycanthus    CTTTCTATTCACTCGTGGGATCCGGGCGGTCCGGGGGGGGACCACCATGGCTCCTCTCTTCTCGAGAATCCATACATCCCTTATCAGTGTATGGACAGCT
Acorus         CTTTCTATTCACTCGTGGGATCCGGGCGGTCCGGGGGGG-ACCACCAAGGCTCCTCTCTTCTCGAGAATCCATCCATCCCTTATCAGTGTATGGACAGCT
Phalaenopsis   CTTTCTATTCACTCGTGGGATCCGGGCGGTCCGGGGGGG--CCCCCACGGCTCCTCTCTTCTCGAGAATCCATACACCCCTTATCAGTGTATGGACAGCT
Ranunculus     CTTTCTATTCACTCGTGGGATCCGGGCGGTCCGGGGGGGGACCACCAAGGCTCCTCTCTTCTCGAGAATCCATACATCCCTTATCAGTGTATGGACAGCT
Nicotiana      CTTTCGATTCACTCGTGGGATCCGGGCGGTCCGGGGGGG-ACCACCACGGCTCCTCTCTTCTCGAGAATCCATACATCCCTTATCAGTGTATGGACAGCT
Arabidopsis    CTTTCTATTCACTCGTGGGATCCGGGCGGTCCGGAGGGG-ACCACTATGGCTCCTCTCTTCTCGAGAATCCATACATCCCTTATCAGTGTATGGACAGCT
Oenothera      CTTTCTATTCACTCGTGGGATCCGGGCGGTCCGGGGGGG-ACCACCA-GGCTCCTCTCTTCTCGAGAATCCATACATCCCTTATCAGTGTATGGACAGCT
Eucalyptus     CTTTCTATTCACTCGTGGGATCCGGGCGGTCCGGGGGGG-ACCCCCACGGCTCCTCTCTTCTCGAGAATCCATACATCCCTTATCAGTGTATGGACAGCT

Zea            ATCTCTCGAGCACAGGTTGAGGTTCGTCCTCAATGGG------AAAATGGAGCACCTAACAACGCATCTTCACAGACCAAGAACTACGAGATCACCCCTTT
Saccharum      ATCTCTCGAGCACAGGTTGAGGTTCGTCCTCAATGGG------AAAATGGAGCACCTAACAACGCATCTTCACAGACCAAGAACTACGAGATCACCCCTTT
Oryza          ATCTCTCGAGCACAGGTTGAGGTTCGTCCTCAATGGG------AAAATGGAGCACCTAACAACGCATCTTCACAGACCAAGAACTACGAGATCACCC-TTT
Triticum       ATCTCTCGAGCACAGGTTGAGGTTCGTCCTCAATGGG------AAAATGGAGCACCTAACAACGCATCTTCACAGACCAAGAACTACGAGATCACCCCTTT
Amborella      ATCTCTCGAGCACAGGTTGAGGTTCGCCTCAATGGGG-----AAAATGGAGCACCTAACAACGCATCTTCACAGACCAAGAACTACGAGATCACCCCTTT
Nuphar         ATCTCTCGAGCACAGGTTTAGGTTCGGCCTCAATGGGG-----AAAATGGAGCACCTAACAACGCATCTTCACAGACCAAGAACTACGAGATCACCCCAGA
Nymphaea       ATCTCTCGAGCACAGGTTTAGGTTCGGCCTCAATGGGG-----AAAATGGAGCACCTAACAACGCATCTTCACAGACCAAGAACTACGAGATCACCCCAGA
Calycanthus    ATCTCTCGAGCACAGGTTTAGGTTCGGCCTCAATGGG------AAAATGGAGCACCTAACAACGCATCTTCACAGACCAAGAACTACGAGATCACCCCTTT
Acorus         ATCTCTCGAGCACAGGTTTAGGTTCGGCCTCAATGGG------AAAATGGAGCACCTAACAACGCATCTTCACAGACCAAGAACTACGAGATCACCCCAGA
Phalaenopsis   ATCTCTCGAGCACAGGTTGAGGTTCGGCCTCAATGAG------AAAATGGAGCACCTAACAACGCATCTTCACAGACCAAGAACTACGAGATCGCCCCTTT
Ranunculus     ATCTCTCGAGCACAGGTTTAGGTTCGGCCTCAATGGTAAAATCAAA-TGGAGCACCTAACAACGCATCTTCACAGACCAAGAACTACGAGATCACCCCAGA
Nicotiana      ATCTCTCGAGCACAGGTTTAG---------CAATGGGAAAATAAAA-TGGAGCACCTAACAACGCATCTTCACAGACCAAGAACTACGAGATCGCCCCTTT
Arabidopsis    ATCTCTCGAGCGCAGGTTTAGGTTCGGCCTCAATGGGAAAATAAAA-TGGAGCACCTAACAACGTATCTTCACAGACCAAGAACTACGAGATCACCCCTTT
Oenothera      ATCTCTCGAGCACAGGTTTAGGTTCGGCCTCAATGGGAAAATGAAA-TGGAGCACCTAACAACGTATCTTCACAGACCAAGAACTACGAGATCGCCCCTTT
Eucalyptus     ATCTCTCGAGCACAGGTTTAGGTTCGGCCTCAATGGGAAAATAAAA-TGGAGCACCTAACAACGTATCTTCACAGACCAAGAACTACGAGATCGCCCCTTT

Zea            CATTC----TGGGGTGACGGAGGGATCGTACCATTCGAGCCTTTTTTT--CATGCTTTTCCC--GGCGGTCTGGAGAAAGCAGTAATCAATAGGACTTCC
Saccharum      CATTC----TGGGGTGACGGAGGGATCGTACCATTCGAGCCTTTTTTT--CATGCTTTTCCC--GGCGGTCTGGAGAAAGCAGTAATCAATAGGACTTCC
Oryza          CATTC----TGGGGTGACGGAGGGATCGTACCATTCGAGCCTTTTTTT--CATGCTTTTCCC--GGCGGTCTGGAGAAAGCAGCAATCAATAGGACTTCC
Triticum       CATTC----TGGGGTGACGGAGGGATCGTACCATTCGAGCCTTTTTTT--CATGCTTTTCCC--GGCGGTCTGGAGAAAGCAGCAATCAATAGGACTTTC
Amborella      CATTC----TGGGGTGACGGAGGGATCGTACCATTCGAGCCTTTTTTTTTCATGCTTTTCCC--GGAGGTATGGAGAAAGCAGCAATCAATAGGATTTCC
Nuphar         ATGAA----AGGGGTGACGGAGGGATCGTACCATTCGAGCCTTTTTTT--CATGCTTTTCCC--GGAGGTCTGGAGAAAGCAGCAATCAATAGGATTTCC
Nymphaea       ATGAA----AGGGGTGACGGAGGGATCGTACCATTCGAGCCTTTTTTT--CATGCTTTTCCC--GGAGGTCTGGAGAAAGCAGCAATCAATAGGATTTCC
Calycanthus    CATTC----TGGGGTGACGGAGGGATCGTACCATTCGAGCCTTTTTTTT-CATGCTTTTCCCGCGGAGGTCTGGAGAAAGCAGCAATCAATAGGATTTCC
Acorus         ATGAA----AGGGGTGACGGAGGGATCGTACCATTCCAGCCTTTTTTTTTCATGCTTTTCCC--GGGGGTCTGGAGAAAGCAGCAATCAATAGGATTTCC
Phalaenopsis   CATTC----TGGGGTGACAGAGGGATCATACCATTCGAGCCTTTTTTT--CATGCC--------GGAGGTCTGAAGAAAGCAGCAATCAATAGGATTTTC
Ranunculus     ATGA-----AAGGGTGACGGAGGGATCGTACCATTCGAGCCTTTTTTTT-CATGCTTTTCCC--GGAGGTCTGGAGAAAGCTGCAATCAATAGGATTTCC
Nicotiana      CATTC----TGGGGTGACGGAGGGATCGTACCATTCGAGCCGTTTTTTT-----------------------------------------------
Arabidopsis    CATTC----TGGGGTGACGGAGGGATCGTACCGTTCGAGCCTTTTTTT--CATG------------------------------------------
Oenothera      TATTC----TGGGGTGACGGAGGGATCGTACCATTCGAGCCTTTTTTT--CATGCTTTTCCC--GGACCTCTGGAGAAAGCTGCAATCAATAGGATTTTC
Eucalyptus     CATTC----TGGGGTGACGGAGGGATCGTACCATTCGAGCCTTTTTTTTTCATGCTTTTCCC--GGAGGTCTGGAGAAAGCTGCAATCAATAGGATTTTC

Zea            CTAATCCTCCCTTCCTGA-------------------------------------------------------------------------------
Saccharum      CTAATCCTCCCTTCCTGA-------------------------------------------------------------------------------
Oryza          CTAATCCTCCCTTCCTGA-------------------------------------------------------------------------------
Triticum       CTAATCCTCCCTTCCT------TTCAGGAAGAACGTGAAATTCTTTTTCCTTAA-------------------------------------------
Amborella      CTAATCTTCCCTTCCC------GAAAGGAAGAGCGTGAAATTCTTTTTCCTTTCCGCAGGGACCAGGAGATTGGATCTAGCCATAAGAAGAGAAGAATGC
Nuphar         CTAATCTTCCCTTCCCGAAAACGAAAGGAAGAACGTGAAATTCTTTTTCCTTTCCGTGGGGACCAGGAGATTGGATCTAGCCATAAGAAGAATGCTTGGT
Nymphaea       CTAATCTTCCCTTCCCGAAAACGAAAGGAAGAACGTGAAATTCTTTTTCCTTTCCGCGGGGACCAGGAGATTGGATCTAGCCATAAGAAGAATGCTTGGT
Calycanthus    CTAATCCTCCCTTCCC------GAAAGGAAGAACGTGAAATTCTTTTTCCTTTCCGCAGGGACCAGGAGATTGGATCTAGCCATAAGAAGAATGCTTGGT
Acorus         CTAATCCTCCCTTCCC------GAAAGGAAGAACGTGAAATTCTTTTTCCTTTCCACAGGGACCAGGAGATTGGATCTAGCCATAAGAAGAATGCTTGGT
Phalaenopsis   CGAATCCTCCCTTCCC------GAAAGGAAGAACGTGAAATTCTTTTTCCTTTCCGCAGGGACCAGGAGATTGGATCTAGCCATAACATAAGAAGAATGC
Ranunculus     CTAATCCTCCTTTC------GGGAAGGAAGGAACTCTAAATTCTTTTTCCTTTCCGCAGGGACCAGGAGATTGGATCTAGCCATAA-----AAAGAATGC
Nicotiana      ------------------------------------------------------------------------------------------------
Arabidopsis    ------------------------------------------------------------------------------------------------
Oenothera      CTAATCCTCCCTTCCC------GAAAGGAAGCACGTGAAATTCTTTTTCCTTTCCGCAGGGACCACCACATTGGATCTAGCCGTAAGA--AGAATGCTTG
Eucalyptus     CTAATCCTCCCTTCCC------GAAAGGAAGAACGTGAAATTCTTTTTCCTTTCCGCAGGGACCAGGAGATTGGATCTAGCCGTAAGA--AGAATGCTTG

Zea            -------------
Saccharum      -------------
Oryza          -------------
Triticum       -------------
Amborella      TTGGTATAA----
Nuphar         ATAAATAA-----
Nymphaea       ATAAATAA-----
Calycanthus    ATAAATAA-----
Acorus         ATAAATAA-----
Phalaenopsis   TTGGTATAAATAA
Ranunculus     -----ATAAATAA
Nicotiana      -------------
Arabidopsis    -------------
Oenothera      GCTGATAAATAA-
Eucalyptus     GATGATAAATAA-
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