

Supplemental Table S2. The CDS of class E genes

Gene name	the CDS of class E genes
<i>DcSEP1</i>	ATGGGAAGAGGAAGAGTAGAATTGAAAAGAATAGAAAATAAAATAAATAGACA AGTTACATTTGCTAAAAGAAGAAATGGTTTGTGAAAAAGCTTATGAATTATCT GTTCTTTGTGATGCTGAAGTTGCTCTTATTATTTTCTCTAATCGTGGTAAACTCTA TGAATTCTGCAGTGGCCCAAGCATGCTCAAACCCTTGAGCGTTACCAGAAATGC AGCTATGGTGCTGTTGAGATCAACAAACCCTCTAAGGAGCTCGAGAGTAGCTATA GGGAGTATTTGAAACTGAAGGGTCGATATGAAGCACTCCAAAGAACTCATAGGA ATCTGCTTGGGGAGGACTTGGGCCCGTTGAATGTGAAGGAACTTGATCACCTCGA GAGGCAACTCGAGTCTTCACTTAAGCAAATTCGGTGCATCAAGACTCAGTCGATG CTCGATCAACTTACTGACCTTCAATCCAAGGAACATGCTTTGATTGAAGCCAATA AATCTCTCAAGGCTGAGTTGGAGAGAATAATGGTGAAGATAGTCAAATGAGGC AGCAAACATGGGAAGGGCAGCAACATGAGCAACAAAATGTGCAGTATGCTCACT CTCAACCTCTTTTCCAACCCATTGACTGCAACCCTAGCTTGCATTTAGGGTACAAT GCGGAAACATCGGACCACTTAAGTGTACCGACGAGTCATGCACAAGTCCCAGGTT TTCTACCAGGGTGGATGCAAATGTAA
<i>DcSEP3-1</i>	ATGGGGAGAGGAAGAGTAGAATTGAAGAGGATAGAAAACAAAATTAACAGACA AGTGACATTTGCAAAGCGAAGAAACGGTCTTTTGAAGAAAGCGTATGAGCTTTCT GTGCTTTGTGATGCTGAAGTTGCTCTCATTATCTTCTCTAATCGCGGCAAACCTCTA CGAGTTTTGCAGCAGCCCTAGCATGCTGAAAACACTTGAAAGGTATCAAAGAG CAACTATGGAGCTCCCGACAACAATGTCGTCTCGACGAGAGAGGCCCTGGAATT AAGTAGTCAGCAAGAGTATCTAAGGCTTAAGGCGCGATATGAGGCCCTTCAAAG GACACACAGAAATCTAATGGGAGAGGATCTAGGGCCACTGAGCAGTAAGGAGCT CGAATCACTCGAGAGGCAGCTTGATGTGTCATTGAAGCATATCAGATCAACCCGA ACACAGTACATGCTAGATCAACTAGCTGACCTCCAAAGAAAGGAACAAGTCCTT AATGAAGCAAACATGACTCTCAAACAAAGGTTGATAGAAGCAAATCAAGCGACA TCTTCGCAGTGGAACGGACAACACGATGTGGGTTATGGAAGAGATCACAACCCT CAAGCTCAGGGTGACCATGTCTTCTTTACCCCTTAGAATGTGAACCAACCTTAC AAATCGGTTATCAGCAGGATCAAATGAATGTCACGACAGCTGGGCCGAGTGTTA ATAACTTCATGACGGGTTGGTTAATGTGA
<i>DcSEP3-2</i>	ATGGGGAGAGGAAGAGTAGAATTGAAGAGGATAGAAAACAAAATTAACAGACA AGTGACATTTGCAAAGAGAGAAGAAATGGTGTTTTGAAGAAAGCTTATGAACTTTCT GTAATATGTGATGCTGAAGTTGCTCTCATCATCTTCTCTAATCGCGGCAAACCTCTA CGAGTTTTGCAGCAGCCCTAGTATGCTGAAAACGCTAGAGAGGTATCAAAGAG CAACTATGCAGCACCTGACGACAGTGTTTCGACAAGGGAGCAAGCGCTGGAACCT AAGTAGTCAGCAGGAGTATCTGAGGCTTAAAGCACGTTACGAAGCCCTTCAACG CACACACAGAAATCTCTTAGGAGAGGATTTGGGTGGCCTAAATACTAAGGAACT TGAATCCCTTGAAGGCAGCTTGATTCGTCATTGAAACAAGTCAGATCAATTCGG ACACAATACATGGTAGATCAGCTAACTGACCTCCAAAGACAGGAACATACACTC AATGAAGCCAACCAAGCTCTTAAACAAAGGTTGATCGAATCGAATCAAAGCGGT ACATTTCAATGGAATGGGCATGAGGTTGGTTATGGAAGGGACAACGACAACCCG ACTCATGCTGCTCATCATCATCACCTGATCATGCCTTCTTTACCCCTTTACA ATCTCAACCAACAACACTACATATTGGGTATCAGCAGGATCAAATAAACGTGAC ACAAGACGGTCCAAGTATGAACAATTTTATGACCGGTTGGTTACCGTGA

DcSEP4-1

ATGGGAAGAGGAAGAGTAGAACTAAAGAGGATAGAGAACAAAATTAATAGGCA
AGTCACATTTGCAAAGAGAAGAAATGGTCTTCTTAAGAAAGCTTATGAACTTTCT
ATACTTTGTGATGCTGAAGTTGCTCTTATCATCTTCTCTAATCGTGGCAAACCTCTA
TGAGTTCTCCAGCTCTTCTAGTATATTGACGACAATTGAAAAGTACCATAGATGT
AGCTATGGAGCTTTAGAAGCTAGTGGTGCTCTCAATGATTCACAGGCTAATTATC
AGGAGTATTTAAAGCTAAAGGCTAGAGTGGAGGTTCTTCAGCAATCTCAGAGGA
ATTTGTTGGGTGAAGATCTAGCACCCTAAATATAAAGGACTTGGATCAGCTTGA
GCATCAGCTTGAGATGTCTCTTAAGGCTATCAGATCCACCAAGACCCAACAAATG
CTCGATCAGTTGGCTGATCTACAGAGAAAGGAACAAACTCTGGCAGAAAATAAC
AGAAACTTAATGCAAAGTTGGAAGAGAGTAGTCCTCATAATCAATTCCCTTCAA
GAATAACATGGGAAGGTGAAGATCACCAAAACATTCCATTCAATCGAATTCCTA
CCCAATCTGAGGCATTTTTCCACCCTCTTTGCTCCAATCAACCCTTGCAAATTAGC
TACAACCATCAACAAATGGGCTCAAATGAAGCAAATGTGGCCACAACAAGCCAG
CAACAGGTCTCGGGATATAACATCCACGGGTGGATGCTTTAA

DcSEP4-2

ATGGGGAGAGGAAGAGTAGAGTTGAAGAGAATAGAGAACAAAATAAATAGACA
AGTAACATTTGCAAAGAGAAGAAATGGGTTGTTGAAGAAGGCTTATGAATTATC
AGTTCTTTGTGATGCTGAAGTTGCTCTTATTGTATTTTCTAACCGTGGTAAACTCT
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CAGCTATGGTTCCCTTGAAACAAGTCAACCTTCTAAAGAGACTGAGCAGAGTAGC
TACCAGGAGTATCTTAAGCTCAAAGCCAAAGTTGATGTCCTACAACGATCCCATA
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TTGAGCATCAATTGGACAAGTCTTTGAGGCAAATCAGGTCTATTAAGACCCAAAA
TATGCTCGATCAACTTGCTGATCTTCAAAGAAGGAAGAGATGCTACTTGAGTCT
AACAGAGCTTTAAAAACGAAGTTGGAAGAAAGTTGTGCATCATTTCTGTCGGAATT
GGGATGGCCGCCAACCGGGTGACGGTTTTTTTCGAACCATTACCATGCAACAACAA
TCTTCAAATAGGGTACAATGAAGCAACACAAGATCAAATGAACGCAACAACCTTC
AACTCAAATGGGCATGGATTTGCACAAGGATGGATGCTTTGA

DcSEP4-3

ATGGGAAGAGGAAGAGTAGAACTAAAGAGGATAGAAAACAAAATCAATAGACA
AGTCACATTTGCAAAGAGAAGAAATGGTCTTCTTAAGAAAGCTTATGAACTTTCT
ATTCTTTGTGATGCTGAGGTTGCCCTAATTATCTTCTCTAATCCTGGCAAACCTCTA
TGAATTTTCAAGCAATTCTAGTATGCTTAAAACCATTGAAAAGTACCAGAGATGT
AGTTATGGTGCTTTGGAAACCACTGACATTCTCAATAATTCACAGGCTAATTACC
AAGAATATTTAAAGCTAAAGGCTAGAGTGGAAAGTTCTTCAGCAATCTCAGAGGA
ATTTGTTGGGTGAAGATTTAGCACCCTGACTATAAAAAGACCTACAGCAATTGGA
ACAACAGCTTGAGATTTCTCTTAAGCAAATAAGATCCACCAAGACCAGTCATTTG
CTCGATCAGCTTAGAGATCTGCAAAAAGGGAACAAGCTCTAACTGAAAATAAC
AGAAACTTGATTAAGGAGTTGGAAGAAAGTAACAATAATCATCAATACTCTACA
AGACTTGGATGGGAAAGTCAAGAACAACAATTTATTCCTATTCAATCTGAGGCTT
TTTTCCAACCTCTTAGTTGCAATCAACAACCATCACAAATAAGCTACCAACATCC
ATTGAGCCCAAGTGAAGTTGATATTGCTGCGACGAGCCAACAATCGCGAGGTTT
AACATCCATGGATGGATGCTTTGA
