

Table. S1 The nucleotide sequences of *CML21* splice variants of *Vitis vinifera* and *Vitis amurensis*.

>VviCML21v1(VIT_219s0015g01200.1)

ATGGGAGGCGTGGTGGGAAAAGGCGATTACCTAGAAAAGCCTGGGTACCAGAAACAAAGCTTGAGGCCA
AAATGGTTGAAGCTATGCAGCGGAGGGCATCTGAAGGAAGCACCATGAAATCGTTCAACAGTATAATCTTG
AAGTTCCCAAAAATTGATGAGAGTTAAGGAACTGCAAAGCTATTTTTAGCAATTTGATGAGGATTCAAAT
GGTGAATAGATCATGAAGAACTGAAAAGATGTTTCCTTAACTGGAGATTTCTTTTTAGAGGAGGAAATC
AACGATCTTTTTGAGGCATGTGATATCAATGAGGATATGGGAATGAAGTTCAATGAGTTCATTGTACTTCTCT
GCCTTGTCTATCTTCTCAAGGAGGATCCTGCTGCCCTTCAGGCCGATCCAAAAAATCACGGATGGGGATGC
CAAATCTGGAGGCAACCTTTGAAACACTGGTTGATGCATTTGTGTTCTGGACAAGAATAAGGATGGTTATG
TGAGCAAGAGCGAGATGGTGCATGCAATAAATGAAACAACCTGCAGGGGAGCGTTCTTCTGGAAGAATAGCC
ATGAAAAGATTGAGGAGATGGATTGGGATAAAAATGGAATGGTGAACCTCAAGGAGTTTCTTTTTGCTTTC
ACCCGTTGGGTTGGGATTGACGATATTGAGGATGAAGAAGAAGAAGGTGAAGAGAAAGTTTGA

>VviCML21v2(VIT_219s0015g01200.2)

ATGGGAGGCGTGGTGGGAAAAGGCGATTACCTAGAAAAGCCTGGGTACCAGAAACAAAGCTTGAGGCCA
AAATGGTTGAAGCTATGCAGCGGAGGGCATCTGAAGGAAGCACCATGAAATCGTTCAACAGTATAATCTTG
AAGTTCCCAAAAATTGATGAGAGTTAAGGAACTGCAAAGCTATTTTTAGCAATTTGATGAGGATTCAAAT
GGTGAATAGATCATGAAGAACTGAAAAGATGTTTCCTTAACTGGAGATTTCTTTTTAGAGGAGGAAATC
AACGATCTTTTTGAGGCATGTGATATCAATGAGGATATGGGAATGAAGTTCAATGAGTTCATTGTACTTCTCT
GCCTTGTCTATCTTCTCAAGGAGGATCCTGCTGCCCTTCAGGCCAAATCACGGATGGGGATGCCAAATCTGG
AGGCAACCTTTGAAACACTGGTTGATGCATTTGTGTTCTGGACAAGAATAAGGATGGTTATGTGAGCAAGA
GCGAGATGGTGCATGCAATAAATGAAACAACCTGCAGGGGAGCGTTCTTCTGGAAGAATAGCCATGAAAAG
ATTGAGGAGATGGATTGGGATAAAAATGGAATGGTGAACCTCAAGGAGTTTCTTTTTGCTTTCACCCGTTGG
GTTGGGATTGACGATATTGAGGATGAAGAAGAAGAAGGTGAAGAGAAAGTTTGA

>VviCML21v3(VIT_219s0015g01200.7)

ATGCTGTGTATCATCCTTCATGTTGTATTTGCTTCTTCCCTCTCTGACATGCCGGTGGTTGAAATTCATTGTTTT
TTCTTCATAGATGAGGATTCAAATGGTGCAATAGATCATGAAGAACTGAAAAGATGTTTCCTTAACTGGAG
ATTTCTTTTTAGAGGAGGAAATCAACGATCTTTTTGAGGCATGTGATATCAATGAGGATATGGGAATGAAG
TTCAATGAGTTCATTGTACTTCTCTGCCTTGTCTATCTTCTCAAGGAGGATCCTGCTGCCCTTCAGGCCGATC
CAAAAAATCACGGATGGGGATGCCAAATCTGGAGGCAACCTTTGAAACACTGGTTGATGCATTTGTGTTCT
GGACAAGAATAAGGATGGTTATGTGAGCAAGAGCGAGATGGTGCATGCAATAAATGAAACAACCTGCAGGG
GAGCGTTCTTCTGGAAGAATAGCCATGAAAAGATTGAGGAGATGGATTGGGATAAAAATGGAATGGTGAA
CTTCAAGGAGTTTCTTTTTGCTTTCACCCGTTGGGTTGGGATTGACGATATTGAGGATGAAGAAGAAGAAGGT
GAAGAGAAAGTTTGA

>VviCML21v4(VIT_219s0015g01200.8)

ATGCTGTGTATCATCCTTCATGTTGTATTTGCTTCTTCCCTCTCTGACATGCCGGTGGTTGAAATTCATTGTTTT
TTCTTCATAGATGAGGATTCAAATGGTGCAATAGATCATGAAGAACTGAAAAGATGTTTCCTTAACTGGAG
ATTTCTTTTTAGAGGAGGAAATCAACGATCTTTTTGAGGCATGTGATATCAATGAGGATATGGGAATGAAG
TTCAATGAGTTCATTGTACTTCTCTGCCTTGTCTATCTTCTCAAGGAGGATCCTGCTGCCCTTCAGGCCAAATC
ACGGATGGGGATGCCAAATCTGGAGGCAACCTTTGAAACACTGGTTGATGCATTTGTGTTCTGGACAAGAA
TAAGGATGGTTATGTGAGCAAGAGCGAGATGGTGCATGCAATAAATGAAACAACCTGCAGGGGAGCGTTCTT
CTGGAAGAATAGCCATGAAAAGATTGAGGAGATGGATTGGGATAAAAATGGAATGGTGAACCTCAAGGA
GTTTCTTTTTGCTTTCACCCGTTGGGTTGGGATTGACGATATTGAGGATGAAGAAGAAGAAGGTGAAGAGAA
AGTTTGA

>VaCML21v2(MN540599)

ATGGGAGGCGTGGTGGGAAAAGGCGATTACCTAGAAAAGCCTGGGTACCAGAAACCAAGCTTGAGGCCA
AAATGGTTGAAGCTATTCAGCGGAGGGCATCTGAAGGAAGCGCCATGAAATCGTTCAACAGTATAATCTTG
AAGTTCCCAAAAATTGATGAGAGTTAAGGAACTGCAAAGCTATTTTTAGCAATTTGATGAGGATTCAAAT
GGTGAATAGATCATGAAGAACTGAAAAGATGTTTCCTTAACTGGAGATTTCTTTTTAGAGGAGGAAATC
AACGATCTTTTTGAGGCATGTGATATCAATGAGGATATGGGAATGAAGTTCAATGAGTTCATTGTACTTCTCT
GCCTTGTCTATCTTCTCAAGGAGGATCCTGCTGCCCTTCAGGCCAAATCACGGATGGGGATGCCAAATCTGG
AGGCAACCTTTGAAACACTGGTTCGATGCATTTGTGTTCTGGACAAGAATAAGGATGGTTATGTGAGCAAGA
GCGAGATGGTGCATGCAATAAATGAAACAACCTGCAGGGGAGCGTTCTTCTGGAAGAATAGCCATGAAAAG
ATTGAGGAGATGGATTGGGATAAAAATGGAATGGTGAACCTCAAGGAGTTTCTTTTTGCTTTCACCCGTTGG
GTTGGGATTGACGATATTGAGGATGAAGAAGAAGAAGGTGAAGAGAAAGTTTGA

>VaCML21v3(MW033207)

ATGCTGTGTATCATCCTTCATGTTGTATTTGCTTCTTCCCTCTCTGACATGCCAGAGTTGAAATTCGTTGTTTT
TTCTTTGTAGATGAGGATTCAAATGGTGCAATAGATCATGAAGAACTGAAAAGATGTTTCCTTAACTGGAG
ATTTCTTTTTAGAGGAGGAAATCAACGATCTTTTTGAGGCATGTGATATCAATGAGGATATGGGAATGAAG

TTCAATGAGTTCATTGTA CTTCTCTGCCTTGCTATCTTCTCAAGGAGGATCCTGCTGCCCTTCAGGCCGTATC
CAAAAAATCACGGATGGGGATGCCAAATCTGGAGGCAACCTTTGAAACACTGGTCGATGCATTTGTGTTCCCT
GGACAAGAATAAGGATGGTTATGTGAGCAAGAGCGAGATGGTGCATGCAATAAATGAAACAACCTGCAGGG
GAGCGTTCTTCTGGAAGAATAGCCATGAAAAGATTCGAGGAGATGGATTGGGATAAAAAATGGAATGGTGAA
CTTCAAGGAGTTTCTTTTTGCTTTCACCCGTTGGGTTGGGATTGACGATATTGAGGATGAAGAAGAAGAAGGT
GAAGAGAAAGTTTGA

>VaCML21v4(MW033208)

ATGCTGTGATCATCCTTCATGTTGTATTTGCTTCTTCCCTCTCTGACATGCCAGAGGTTGAAATTCGTTGTTTT
TTCTTTGTAGATGAGGATTCAAATGGTGCAATAGATCATGAAGAAGTAAAAGATGTTTCCTTAAACTGGAG
ATTTCTTTTTTTCAGAGGAGGAAATCAACGATCTTTTTGAGGCATGTGATATCAATGAGGATATGGGAATGAAG
TTCAATGAGTTCATTGTA CTTCTCTGCCTTGCTATCTTCTCAAGGAGGATCCTGCTGCCCTTCAGGCCAAATC
ACGGATGGGGATGCCAAATCTGGAGGCAACCTTTGAAACACTGGTCGATGCATTTGTGTTCCCTGGACAAGAA
TAAGGATGGTTATGTGAGCAAGAGCGAGATGGTGCATGCAATAAATGAAACAACCTGCAGGGGAGCGTTCTT
CTGGAAGAATAGCCATGAAAAGATTCGAGGAGATGGATTGGGATAAAAAATGGAATGGTGAACCTTCAAGGA
GTTTCTTTTTGCTTTCACCCGTTGGGTTGGGATTGACGATATTGAGGATGAAGAAGAAGAAGGTGAAGAGAA
AGTTTGA