

(a)

750 bp

500 bp

*DoCBL5*

Reference	1	ATGGGCTGTTTTAGTTCTACCGTAAGAAAGCAGTTTGCTGGGTATGAGGACCCAGTAGTTTTGGCTTCACAAACGG	76
Cloned	1	ATGGGCTGTTTTAGTTCTACCGTAAGAAAGCAGTTTGCTGGGTATGAGGACCCAGTAGTTTTGGCTTCACAAACGG	76
Reference	77	CTTTTAGTGTGAGTGAAGTTGAAGCACTGTTTGAGCTGTTTAGGAGCATTAGCAGTTCCGTGCTTGATGATGGACT	152
Cloned	77	CTTTTAGTGTGAGTGAAGTTGAAGCACTGTTTGAGCTGTTTAGGAGCATTAGCAGTTCCGTGCTTGATGATGGACT	152
Reference	153	AATAACAAGGAAGAGTTTCAATTGGCTCTATTCAAGAATAGAAAGAAAGAGAATCTTTTCTCCGACAGGATATTT	228
Cloned	153	AATAACAAGGAAGAGTTTCAATTGGCTCTATTCAAGAATAGAAAGAAAGAGAATCTTTTCTCCGACAGGATATTT	228
Reference	229	GATCTATTTGATGTTAAGCGGAAGGGAGTCATTGATTTTGGTGATTTTGTTAGATCACTCAACGTATTCCATCCAA	304
Cloned	229	GATCTATTTGATGTTAAGCGGAAGGGAGTCATTGATTTTGGTGATTTTGTTAGATCACTCAACGTATTCCATCCAA	304
Reference	305	ATGCCCCACTAGAACATAAAATAGACTTTTCTTTTAAACTCTACGATTTGGATGGGACAGGATTCATTGAACGACA	380
Cloned	305	ATGCCCCACTAGAACATAAAATAGACTTTTCTTTTAAACTCTACGATTTGGATGGGACAGGATTCATTGAACGACA	380
Reference	381	AGAGGTCAAGCAAATGTTAATTGCACTACTGTCTGAGTCCGAGATGAAGCTGGCTGATGAGACCATTGAGATAATT	456
Cloned	381	AGAGGTCAAGCAAATGTTAATTGCACTACTGTCTGAGTCCGAGATGAAGCTGGCTGATGAGACCATTGAGATAATT	456
Reference	457	CTAGATAAGACATTTTCAGAAGCAGATGCAGATGAGGATGGGAAGATCGGCCAAATTTGGAGTGGCAGAATTTTGTCA	532
Cloned	457	CTAGATAAGACATTTTCAGAAGCAGATGCAGATGAGGATGGGAAGATCGGCCAAATTTGGAGTGGCAGAATTTTGTCA	532
Reference	533	ACCGAAACCCTTCGTTGTTAAAGATTATGACGCTTCCATACCTAAGGGACATAACCACAACATTTCCGAGCTTTAT	608
Cloned	533	ACCGAAACCCTTCGTTGTTAAAGATTATGACGCTTCCATACCTAAGGGACATAACCACAACATTTCCGAGCTTTAT	608
Reference	609	ATTTCAATTCAGAGGTCGATGAGATTGCTACATAA	642
Cloned	609	ATTTCAATTCAGAGGTCGATGAGATTGCTACA - -	639

(b)

2000 bp

1000 bp

*DoCIPK05*

Reference	1	ATGGCCGAGAAGAGTGTGCTCCACGGGAAGTACGAGCTAGGCCGGATGCTAGGCCATGGGACCTTTGCAAAGGTCT	76
Cloned	1	ATGGCCGAGAAGAGTGTGCTCCACGGGAAGTACGAGCTAGGCCGGATGCTAGGCCATGGGACCTTTGCAAAGGTCT	76
Reference	77	ACCACGCCTCGGAACCTTGCATACCGGGAAGAGCGTAGCGATGAAGGTCGTCGGGAAGGAGAAGGTGATCAAAGGTCTCGG	152
Cloned	77	ACCACGCCTCGGAACCTTGCATACCGGGAAGAGCGTAGCGATGAAGGTCGTCGGGAAGGAGAAGGTGATCAAAGGTCTCGG	152
Reference	153	AATGACTGAGCAGGTGAAGCGTGAGATATCAGTGATGAAGATGGTGAAGCATCCGAACATCGTGGAGCTTACGAAAG	228
Cloned	153	AATGACTGAGCAGGTGAAGCGTGAGATATCAGTGATGAAGATGGTGAAGCATCCGAACATCGTGGAGCTTACGAAAG	228
Reference	229	GTCATGGCGAGCAAGTCCAAGATCTACTTCGCCATGGAGCTTGTCCGCGGC GGCGAGCTGTTTTCCAAGATCGCCA	304
Cloned	229	GTCATGGCGAGCAAGTCCAAGATCTACTTCGCCATGGAGCTTGTCCGCGGC GGCGAGCTGTTTTCCAAGATCGCCA	304
Reference	305	AGGGAAGACTCCGGGAAGACTTGGCTAGGCAGTACTTCCAGCAACTCATCTCAGCCGTCGACTTCTGCCACAGCCG	380
Cloned	305	AGGGAAGACTCCGGGAAGACTTGGCTAGGCAGTACTTCCAGCAACTCATCTCAGCCGTCGACTTCTGCCACAGCCG	380
Reference	381	CGGCGTCTACCACCGGGATCTGAAGCCGGAGAACCTTCTGCTTGACGACGGCGGTAACCTCAAGGTGACGGACTTT	456
Cloned	381	CGGCGTCTACCACCGGGATCTGAAGCCGGAGAACCTTCTGCTTGACGACGGCGGTAACCTCAAGGTGACGGACTTT	456
Reference	457	GGTCTGAGCGCGTTTTTCCGGTCACCAGCGGCAGGACGGGCTGCTCCACACGACGTGCGGGACGCCGGCTTACGTCTG	532
Cloned	457	GGTCTGAGCGCGTTTTTCCGGTCACCAGCGGCAGGACGGGCTGCTCCACACGACGTGCGGGACGCCGGCTTACGTCTG	532
Reference	533	CGCCAGAGGTAATCGGGAAGAAGGGCTATGACGGAGCCAAGGCGGACCTCTGGTCTTGCGGCGTTATTCTGTACGT	608
Cloned	533	CGCCAGAGGTAATCGGGAAGAAGGGCTATGACGGAGCCAAGGCGGACCTCTGGTCTTGCGGCGTTATTCTGTACGT	608
Reference	609	ATTGTTGGCCGGTTTTTCTGCCTTTTTCAGGAGGATAACATTGTGGCCATGTACCGGAAGATTTACAGGGGCGACTTC	684
Cloned	609	ATTGTTGGCCGGTTTTTCTGCCTTTTTCAGGAGGATAACATTGTGGCCATGTACCGTAAGATTTACAGGGGCGACTTC	684
Reference	685	AAGTGCCCGCCGTGGTTCTCGCCGGAATCCCGACGATTAGTAACCAAGCTGTTGGATCCGAATCCGAGCAGTCGAA	760
Cloned	685	AAGTGCCCGCCGTGGTTCTCGCCGGAATCCCGACGATTAGTAACCAAGCTGTTGGATCCGAATCCGAGCAGTCGAA	760
Reference	761	TCAGCATCTCAAAAATCATGGAATCGTCGTGGTTCAAGACAACGATCCCGAAATCTGTGAGATCCAAAGAGGAGGA	836
Cloned	761	TCAGCATCTCAAAAATCATGGAATCGTCGTGGTTCAAGACGACGATCCCGAAATCTGTGAGATCCAAAGAGGAGGA	836
Reference	837	AGAGGAATCAAACCTCGAAGACGGCGGGAAGAAGAAGGAAACAGAGACTCTGAACGCGTTTTACATAATATCTTTG	912
Cloned	837	AGAGGAATCAAACCTCGAAGACGGCGGGAAGAAGAAGGAAACAGAGACTCTGAACGCGTTTTACATAATATCTTTG	912
Reference	913	TCGGAAGGTTTTCGATCTGTGCGCCATTATTTGAGGTGAAGAAAAGGAAAAGAGAAGGAGGAGATGAGATTTGCTACGA	988
Cloned	913	TCGGAAGGTTTTCGATCTGTGCGCCATTATTTGAGGTGAAGAAAAGGAAAAGAGAAGGAGGAGATGAGATTTGCTACGA	988
Reference	989	CGCAGCCGGCGAGCAGCGTGATTTCTCGGCTGGAGGAGGTGGCGGCGAAGACCGGAAAATTTCTGCGTGAAGAAGAG	1064
Cloned	989	CGCAGCCGGCGAGCAGCGTGATTTCTCGGCTGGAGGAGGTGGCGGCGAAGACCGGAAAATTTCTGCGTGAAGAAGAG	1064
Reference	1065	CGGCGATATGACGAGCGTGATGCTGCAGGGACAGGAGTCCGGGCGGAAGGGGAAGCTCGGAATCGAGGCGGAGATA	1140
Cloned	1065	CGGCGATATGACGAGCGTGATGCTGCAGGGACAGGAGTCCGGGCGGAAGGGGAAGCTCGGAATCGAGGCGGAGATA	1140
Reference	1141	TTGCGGGTGGCGCCGTGCTTCCTGATGGTGGAGGTGAAGAAGTCCAGCGGC GACACGCTCGAGTACAACCAGTTCT	1216
Cloned	1141	TTGCGGGTGGCGCCGTGCTTCCTGATGGTGGAGGTGAAGAAGTCCAGCGGC GACACGCTCGAGTACAACCAGTTCT	1216
Reference	1217	GCAGCCAGCTTCGTCCCGCTCTCAAAGACATCGTCTGGACCAATAGCTCGACGCCGGCTTGA	1278
Cloned	1217	GCAGCCAGCTTCGTCCCGCGCTCAAAGACATCGTCTGGACCAATAGCTCGACGCCGGCT	1275