SUPPLEMENTARY INFORMATION

Localized proteolysis for the construction of intracellular asymmetry in *Escherichia coli*

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Supplementary Table 1

Name	Description of the circuit	Complete sequence of the circuit
116DG	DivIVA-sfGFP expressed under J23116 promoter	TTGACAGCTAGCTCAGTCCTAGGGACTATGCTAGCTACTAGAGTTTACG GCTAGCTACTAGAGAAAGAGGAGAAAAAGCTTCTATGCCATTAACGCC AAATGATATTCACAACAAGACGTTTACAAAAAGTTTTCGCGGATATGAT GAAGATGAAGTAAATGAATTTCTAGCCCAAGTCAGAAAAGATTACGAA ATTGTTCTCCGCAAGAAAACTGAGCTTGAAGCGAAAGTCAATGAGCTT GATGAAAGAATCGGACACTTTGCCAATATTGAGGAGACATTGAATAAA TCAATTTTAGTTGCTCAAGAAGCGGCTGAAGACGTAAAACGCAATTCT CAAAAAGAAGCAAAGCTGATCGTTCGGGAAGCGGAGAAAAACGCTG ATCGCATTATCAACGAATCGTTATCAAAATCAAGAAAAATTGCAATGGA AATTGAAGAGCTGAAAAAACAGTCTAAAGTGTTCAGAACACGTTTCC AAATGCTGATTGAAGCTCAGCTTGATCTTCTGAAAAATGACGATTGGG ATCATCTCCTTGAGTATGAAGTCGACGCAGTATTTGAGGAAAAGGAAA AACTGGATATTGAATTTCTGCAAGTACCGATGAGCAAAGGAGAAGAAC TTTTCACTGGAGTTGTCCCAATTCTTGTTGAATTAGATGGTGATGTTAAT GGGCACAAATTTTCTGTCCGTGGAGAGGGTGAAGGTGATGCTACAAA CGGAAAACTCACCCTTAAATTTATTTGCACTACTGGAAAACTACCTGTT CCGTGGCCAACACTTGTCACTACTCTGACCTATGGTGTTCAATGCTTTT CCCGTTATCCGGATCACATGAAACGGCATGACTTTTTCAAGAGTGCCAT GCCCGAAGGTTATGTACAGGAACGCACTATATCTTTCAAAGATGACGG GACCTACAAGACGCGTGCTGAAGTCAAGTTTGAAGGTGATACCCTTGT TAATCGTATCGAGTTAAAGGGTATTGATTTTAAAGAAGATGGAAACATT CTTGGACACAAACTCGAGTACAACTTTAACTCACACAATGTATACATC ACGGCAGACAAACAAAAGAATGGAATCAAAGCTAACTTCAAAATTCG CCACAACGTTGAAGATGGTTCCGTTCAACTAGCAGACCATTATCAACA AAATACTCCAATTGGCGATGGCCCTGTCCTTTTACCAGACAACCATTAC CTGTCGACACAATCTGTCCTTTCGAAAGATCCCAACGAAAAGCGTGAC CACATGGTCCTTCTTGAGTTTGTAACTGCTGCTGGGATTACACATGGCA TGGATGAGCTCTACAAATAA
116DG52	DivIVA-sfGFP-M0052 expressed under J23116 promoter	TTGACAGCTAGCTCAGTCCTAGGGACTATGCTAGCTACTAGAGTTTACG GCTAGCTACTAGAGAAAGAGGAGAAAAAGCTTCTATGCCATTAACGCC AAATGATATTCACAACAAGACGTTTACAAAAAGTTTTCGCGGATATGAT GAAGATGAAGTAAATGAATTTCTAGCCCAAGTCAGAAAAGATTACGAA ATTGTTCTCCGCAAGAAAACTGAGCTTGAAGCGAAAGTCAATGAGCTT GATGAAAGAATCGGACACTTTGCCAATATTGAGGAGACATTGAATAAA TCAATTTTAGTTGCTCAAGAAGCGGCTGAAGACGTAAAACGCAATTCT CAAAAAGAAGCAAAGCTGATCGTTCGGGAAGCGGAGAAAAACGCTG ATCGCATTATCAACGAATCGTTATCAAAATCAAGAAAAATTGCAATGGA AATTGAAGAGCTGAAAAAACAGTCTAAAGTGTTCAGAACACGTTTCC AAATGCTGATTGAAGCTCAGCTTGATCTTCTGAAAAATGACGATTGGG ATCATCTCCTTGAGTATGAAGTCGACGCAGTATTTGAGGAAAAGGAAA AACTGGATATTGAATTTCTGCAAGTACCGATGAGCAAAGGAGAAGAAC TTTTCACTGGAGTTGTCCCAATTCTTGTTGAATTAGATGGTGATGTTAAT GGGCACAAATTTTCTGTCCGTGGAGAGGGTGAAGGTGATGCTACAAA CGGAAAACTCACCCTTAAATTTATTTGCACTACTGGAAAACTACCTGTT CCGTGGCCAACACTTGTCACTACTCTGACCTATGGTGTTCAATGCTTTT CCCGTTATCCGGATCACATGAAACGGCATGACTTTTTCAAGAGTGCCAT GCCCGAAGGTTATGTACAGGAACGCACTATATCTTTCAAAGATGACGG GACCTACAAGACGCGTGCTGAAGTCAAGTTTGAAGGTGATACCCTTGT TAATCGTATCGAGTTAAAGGGTATTGATTTTAAAGAAGATGGAAACATT CTTGGACACAAACTCGAGTACAACTTTAACTCACACAATGTATACATC ACGGCAGACAAACAAAAGAATGGAATCAAAGCTAACTTCAAAATTCG CCACAACGTTGAAGATGGTTCCGTTCAACTAGCAGACCATTATCAACA AAATACTCCAATTGGCGATGGCCCTGTCCTTTTACCAGACAACCATTAC CTGTCGACACAATCTGTCCTTTCGAAAGATCCCAACGAAAAGCGTGAC CACATGGTCCTTCTTGAGTTTGTAACTGCTGCTGGGATTACACATGGCA TGGATGAGCTCTACAAAGCTGCTAACGACGAAAACTACGCTGACGCTT CTTAA
116DG50	DivIVA-sfGFP-M0050 expressed under J23116	TTGACAGCTAGCTCAGTCCTAGGGACTATGCTAGCTACTAGAGTTTACG GCTAGCTACTAGAGAAAGAGGAGAAAAAGCTTCTATGCCATTAACGCC

	promoter	AAATGATATTCACAACAAGACGTTTACAAAAAGTTTTCGCGGATATGAT GAAGATGAAGTAAATGAATTTCTAGCCCAAGTCAGAAAAGATTACGAA ATTGTTCTCCGCAAGAAAACTGAGCTTGAAGCGAAAGTCAATGAGCTT GATGAAAGAATCGGACACTTTGCCAATATTGAGGAGACATTGAATAAA TCAATTTTAGTTGCTCAAGAAGCGGCTGAAGACGTAAAACGCAATTCT CAAAAAGAAGCAAAGCTGATCGTTCGGGAAGCGGAGAAAAACGCTG ATCGCATTATCAACGAATCGTTATCAAAATCAAGAAAAATTGCAATGGA AATTGAAGAGCTGAAAAAACAGTCTAAAGTGTTCAGAACACGTTTCC AAATGCTGATTGAAGCTCAGCTTGATCTTCTGAAAAATGACGATTGGG ATCATCTCCTTGAGTATGAAGTCGACGCAGTATTTGAGGAAAAGGAAA AACTGGATATTGAATTTCTGCAAGTACCGATGAGCAAAGGAGAAGAAC TTTTCACTGGAGTTGTCCCAATTCTTGTTGAATTAGATGGTGATGTTAAT GGGCACAAATTTTCTGTCCGTGGAGAGGGTGAAGGTGATGCTACAAA CGGAAAACTCACCCTTAAATTTATTTGCACTACTGGAAAACTACCTGTT CCGTGGCCAACACTTGTCACTACTCTGACCTATGGTGTTCAATGCTTTT CCCGTTATCCGGATCACATGAAACGGCATGACTTTTTCAAGAGTGCCAT GCCCGAAGGTTATGTACAGGAACGCACTATATCTTTCAAAGATGACGG GACCTACAAGACGCGTGCTGAAGTCAAGTTTGAAGGTGATACCCTTGT TAATCGTATCGAGTTAAAGGGTATTGATTTTAAAGAAGATGGAAACATT CTTGGACACAAACTCGAGTACAACTTTAACTCACACAATGTATACATC ACGGCAGACAAACAAAAGAATGGAATCAAAGCTAACTTCAAAATTCG CCACAACGTTGAAGATGGTTCCGTTCAACTAGCAGACCATTATCAACA AAATACTCCAATTGGCGATGGCCCTGTCCTTTTACCAGACAACCATTAC CTGTCGACACAATCTGTCCTTTCGAAAGATCCCAACGAAAAGCGTGAC CACATGGTCCTTCTTGAGTTTGTAACTGCTGCTGGGATTACACATGGCA TGGATGAGCTCTACAAAGCTGCTAACGACGAAAACTACGCTCTGGCTG CTTAA
DGS50	DivIVA-sfGFP-TEV protease recognition site-M0050 expressed under J23116 promoter	TTGACAGCTAGCTCAGTCCTAGGGACTATGCTAGCTACTAGAGTTTACG GCTAGCTACTAGAGAAAGAGGAGAAAAAGCTTCTATGCCATTAACGCC AAATGATATTCACAACAAGACGTTTACAAAAAGTTTTCGCGGATATGAT GAAGATGAAGTAAATGAATTTCTAGCCCAAGTCAGAAAAGATTACGAA ATTGTTCTCCGCAAGAAAACTGAGCTTGAAGCGAAAGTCAATGAGCTT GATGAAAGAATCGGACACTTTGCCAATATTGAGGAGACATTGAATAAA TCAATTTTAGTTGCTCAAGAAGCGGCTGAAGACGTAAAACGCAATTCT CAAAAAGAAGCAAAGCTGATCGTTCGGGAAGCGGAGAAAAACGCTG ATCGCATTATCAACGAATCGTTATCAAAATCAAGAAAAATTGCAATGGA AATTGAAGAGCTGAAAAAACAGTCTAAAGTGTTCAGAACACGTTTCC AAATGCTGATTGAAGCTCAGCTTGATCTTCTGAAAAATGACGATTGGG ATCATCTCCTTGAGTATGAAGTCGACGCAGTATTTGAGGAAAAGGAAA AACTGGATATTGAATTTCTGCAAGTACCGATGAGCAAAGGAGAAGAAC TTTTCACTGGAGTTGTCCCAATTCTTGTTGAATTAGATGGTGATGTTAAT GGGCACAAATTTTCTGTCCGTGGAGAGGGTGAAGGTGATGCTACAAA CGGAAAACTCACCCTTAAATTTATTTGCACTACTGGAAAACTACCTGTT CCGTGGCCAACACTTGTCACTACTCTGACCTATGGTGTTCAATGCTTTT CCCGTTATCCGGATCACATGAAACGGCATGACTTTTTCAAGAGTGCCAT GCCCGAAGGTTATGTACAGGAACGCACTATATCTTTCAAAGATGACGG GACCTACAAGACGCGTGCTGAAGTCAAGTTTGAAGGTGATACCCTTGT TAATCGTATCGAGTTAAAGGGTATTGATTTTAAAGAAGATGGAAACATT CTTGGACACAAACTCGAGTACAACTTTAACTCACACAATGTATACATC ACGGCAGACAAACAAAAGAATGGAATCAAAGCTAACTTCAAAATTCG CCACAACGTTGAAGATGGTTCCGTTCAACTAGCAGACCATTATCAACA AAATACTCCAATTGGCGATGGCCCTGTCCTTTTACCAGACAACCATTAC CTGTCGACACAATCTGTCCTTTCGAAAGATCCCAACGAAAAGCGTGAC CACATGGTCCTTCTTGAGTTTGTAACTGCTGCTGGGATTACACATGGCA TGGATGAGCTCTACAAAGAAAACCTGTATTTTCAGAGCGCTGCTAACG ACGAAAACTACGCTCTGGCTGCTTAA
TDGS50	TEV protease expressed under J23106 promoter; DivIVA-sfGFP-TEV protease recognition site-M0050 expressed under J23116 promoter	TTTACGGCTAGCTCAGTCCTAGGTATAGTGCTAGCTACTAGAGAAAGA GGAGAAAAAGCTTTAGAGATGGGAGAAAGTTTGTTTAAGGGACCACG TGATTACAACCCGATATCGAGCACCATTTGTCATTTAACGAATGAATCT GATGGGCACACAACATCGTTGTATGGTATTGGATTTGGTCCCTTCATCA TTACAAACAAGCACTTGTTTAGAAGAAATAATGGAACACTGTTGGTCC AATCACTACATGGTGTATTCAAGGTCAAGAACACCACGACTTTGCAAC AACACCTCATTGATGGGAGGGACATGATAATTATTCGCATGCCTAAGGA

		TTTCCCACCATTTCCTCAAAAGCTGAAATTTAGAGAGCCACAAAGGGA AGAGCGCATATGTCTTGTGACAACCAACTTCCAAACTAAGAGCATGTC TAGCATGGTGTCAGACACCAGTTGCACATTCCCTTCATCTGATGGCATA TTCTGGAAGCATTGGATTCAAACCAAGGATGGGCAGTGTGGCAGTCCA TTAGTATCAACTAGAGATGGGTTCATTGTTGGTATACACTCAGCATCGA ATTTCACCAACACAAACAATTATTTCACAAGCGTGCCGAAAAACTTCA TGGAATTGTTGACAAATCAGGAGGCGCAGCAGTGGGTTAGTGGTTGG CGATTAAATGCTGACTCAGTATTGTGGGGGGGCCATAAAGTTTTCATGG TGAAACCTGAAGAGCCTTTTCAGCCAGTTAAGGAAGCGACTCAACTC ATGAATGAATTGGTGTACTCGCAATAAACTAGAGCCAGGCATCAAATA AAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTATCTGTTGT TTGTCGGTGAACGCTCTCTACTAGAGTCACACTGGCTCACCTTCGGGT GGGCCTTTCTGCGTTTATATACTAGAGTTGACAGCTAGCTCAGTCCTAG GGACTATGCTAGCTACTAGAGTTTACGGCTAGCTACTAGAGAAAGAGG AGAAAAAGCTTCTATGCCATTAACGCCAAATGATATTCACAACAAGAC GTTTACAAAAAGTTTTCGCGGATATGATGAAGATGAAGTAAATGAATTT CTAGCCCAAGTCAGAAAAGATTACGAAATTGTTCTCCGCAAGAAAACT GAGCTTGAAGCGAAAGTCAATGAGCTTGATGAAAGAATCGGACACTT TGCCAATATTGAGGAGACATTGAATAAATCAATTTTAGTTGCTCAAGAA GCGGCTGAAGACGTAAAACGCAATTCTCAAAAAGAAGCAAAGCTGAT CGTTCGGGAAGCGGAGAAAAACGCTGATCGCATTATCAACGAATCGTT ATCAAAATCAAGAAAAATTGCAATGGAAATTGAAGAGCTGAAAAAAC AGTCTAAAGTGTTCAGAACACGTTTCCAAATGCTGATTGAAGCTCAGC TTGATCTTCTGAAAAATGACGATTGGGATCATCTCCTTGAGTATGAAGT CGACGCAGTATTTGAGGAAAAGGAAAAACTGGATATTGAATTTCTGCA AGTACCGATGAGCAAAGGAGAAGAACTTTTCACTGGAGTTGTCCCAAT TCTTGTTGAATTAGATGGTGATGTTAATGGGCACAAATTTTCTGTCCGT GGAGAGGGTGAAGGTGATGCTACAAACGGAAAACTCACCCTTAAATTT ATTTGCACTACTGGAAAACTACCTGTTCCGTGGCCAACACTTGTCACT ACTCTGACCTATGGTGTTCAATGCTTTTCCCGTTATCCGGATCACATGA AACGGCATGACTTTTTCAAGAGTGCCATGCCCGAAGGTTATGTACAGG AACGCACTATATCTTTCAAAGATGACGGGACCTACAAGACGCGTGCTG AAGTCAAGTTTGAAGGTGATACCCTTGTTAATCGTATCGAGTTAAAGG GTATTGATTTTAAAGAAGATGGAAACATTCTTGGACACAAACTCGAGT ACAACTTTAACTCACACAATGTATACATCACGGCAGACAAACAAAAGA ATGGAATCAAAGCTAACTTCAAAATTCGCCACAACGTTGAAGATGGTT CCGTTCAACTAGCAGACCATTATCAACAAAATACTCCAATTGGCGATGG CCCTGTCCTTTTACCAGACAACCATTACCTGTCGACACAATCTGTCCTT TCGAAAGATCCCAACGAAAAGCGTGACCACATGGTCCTTCTTGAGTTT GTAACTGCTGCTGGGATTACACATGGCATGGATGAGCTCTACAAAGAA AACCTGTATTTTCAGAGCGCTGCTAACGACGAAAACTACGCTCTGGCT GCTTAA
PSSCSN	mRFP-PopZ expressed under J23116 promoter; SpmXΔC-TEV protease recognition site-eGFP expressed under J23113 promoter; SpmXΔC-split C terminal of TEV protease expressed under J23116 promoter; SpmXΔC-split N terminal of TEV protease expressed under J23116 promoter	TTGACAGCTAGCTCAGTCCTAGGGACTATGCTAGCTACTAGAGATTAAA GAGGAGAAATACTAGATGGCTTCCTCCGAAGACGTTATCAAAGAGTTC ATGCGTTTCAAAGTTCGTATGGAAGGTTCCGTTAACGGTCACGAGTTC GAAATCGAAGGTGAAGGTGAAGGTCGTCCGTACGAAGGTACCCAGAC CGCTAAACTGAAAGTTACCAAAGGTGGTCCGCTGCCGTTCGCTTGGGA CATCCTGTCCCCGCAGTTCCAGTACGGTTCCAAAGCTTACGTTAAACA CCCGGCTGACATCCCGGACTACCTGAAACTGTCCTTCCCGGAAGGTTT CAAATGGGAACGTGTTATGAACTTCGAAGACGGTGGTGTTGTTACCGT TACCCAGGACTCCTCCCTGCAAGACGGTGAGTTCATCTACAAAGTTAA ACTGCGTGGTACCAACTTCCCGTCCGACGGTCCGGTTATGCAGAAAAA AACCATGGGTTGGGAAGCTTCCACCGAACGTATGTACCCGGAAGACG GTGCTCTGAAAGGTGAAATCAAAATGCGTCTGAAACTGAAAGACGGT GGTCACTACGACGCTGAAGTTAAAACCACCTACATGGCTAAAAAACCG GTTCAGCTGCCGGGTGCTTACAAAACCGACATCAAACTGGACATCACC TCCCACAACGAAGACTACACCATCGTTGAACAGTACGAACGTGCTGA AGGTCGTCACTCCACCGGTGCTGGATCATCTGGCTCATCGGGATCCAT GTCCGATCAGTCTCAAGAACCTACAATGGAGGAAATCCTCGCCTCCAT TCGACGCATCATCTCGGAGGATGACGCGCCGGCGGAGCCTGCGGCCG AAGCGGCGCCCCCGCCGCCGCCGGAACCCGAACCTGAACCGGTGTCG TTCGACGACGAGGTTCTGGAATTGACGGACCCGATCGCGCCCGAGCC CGAGCTGCCGCCGCTGGAGACTGTCGGCGACATCGACGTCTATTCGCC

		GCCGGAACCTGAGTCGGAACCGGCCTACACGCCGCCGCCGGCGGCTC CGGTGTTTGATCGCGACGAAGTCGCCGAGCAGCTGGTCGGCGTTTCG GCCGCTTCGGCCGCGGCGAGCGCCTTCGGCAGCCTGAGCTCGGCCCT GCTGATGCCCAAGGACGGTCGGACGCTGGAAGACGTCGTACGCGAGC TGCTGCGCCCGCTGCTCAAGGAGTGGCTGGACCAGAACCTGCCGCGC ATCGTCGAGACCAAGGTTGAGGAAGAAGTGCAGCGTATCTCTCGGGG ACGCGGCGCCTGTTGTCCAGGATGTTGTTAAACTAGAGCCAGGCATCA AATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTATCTG TTGTTTGTCGGTGAACGCTCTCTACTAGAGTCACACTGGCTCACCTTC GGGTGGGCCTTTCTGCGTTTATATACTAGAGCTGATGGCTAGCTCAGTC CTAGGGATTATGCTAGCTACTAGAGATTAAAGAGGAGAAATACTAGATG ACCATGATTACGCCAAGCTTGATGAAACCGCGTCATCAGGTCTCCCGG GCCGCCGTCGATCTCATCAAGAGATTCGAAGGGTACCGTCAGAAGGCC GCGCAGCTCCCCGACGGGCGCTGGACGGTCGGCTATGGCCACACCCT GACCGCCCGCGAGGGCGCCTCTGTCTCGGAAAAGGACGCCGAGGCGC TGCTGCTCTATGATCTCATCTCGGTCGCCCATTCGGTGAACGAGCACAC CTACACGCCGCTGAACCAGAACCAGTTCGACGCGTTGGTGTGCTTCGC CTTCAATATCGGCCTCGACAACTTCCTCCGCTCGGGCGTCCTGCGCCG GATCAACGAGGGCTCGCTGCTGCAAGCCGCGTGCGCGATGGAGATGT GGCGCAAGGCCGATTTCGAGGGCGAGCGCATCGTCATCGATGCACTGG TTCGCCGCCGCTCCGCCGAGAAGACTCTGTTCCTCACGCCGGAGGGAT CCGGTAGGATTTCAGAATTGGGTACCGGTGGTGAGAACCTGTACGTAC AGGGCGAATTCGGGCTCGAGATGGTGAGCAAGGGCGAGGAGCTGTTC ACCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGG CCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACG GCAAGCTGACCCTGAAGTTCATCTGCACCACCGGCAAGCTGCCCGTG CCCTGGCCCACCCTCGTGACCACCCTGACCTACGGCGTGCAGTGCTTC AGCCGCTACCCCGACCACATGAAGCAGCACGACTTCTTCAAGTCCGCC ATGCCCGAAGGCTACGTCCAGGAGCGCACCATCTTCTTCAAGGACGAC GGCAACTACAAGACCCGCGCCGAGGTGAAGTTCGAGGGCGACACCCT GGTGAACCGCATCGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCA ACATCCTGGGGCACAAGCTGGAGTACAACTACAACAGCCACAACGTC TATATCATGGCCGACAAGCAGAAGAACGGCATCAAGGTGAACTTCAAG ATCCGCCACAACATCGAGGACGGCAGCGTGCAGCTCGCCGACCACTA CCAGCAGAACACCCCCATCGGCGACGGCCCCGTGCTGCTGCCCGACA ACCACTACCTGAGCACCCAGTCCGCCCTGAGCAAAGACCCCAACGAG AAGCGCGATCACATGGTCCTGCTGGAGTTCGTGACCGCCGCCGGGATC ACTCTCGGCATGGACGAGCTGTACAAGGTCGAGCACCACCACCACCA CCACTAGAGCCAGGCATCAAATAAAACGAAAGGCTCAGTCGAAAGAC TGGGCCTTTCGTTTTATCTGTTGTTTGTCGGTGAACGCTCTCTACTAGA GTCACACTGGCTCACCTTCGGGTGGGCCTTTCTGCGTTTATATACTAGA GTTGACAGCTAGCTCAGTCCTAGGGACTATGCTAGCTACTAGAGCTACT AGAGATTAAAGAGGAGAAATACTAGATGACCATGATTACGCCAAGCTT GATGAAACCGCGTCATCAGGTCTCCCGGGCCGCCGTCGATCTCATCAA GAGATTCGAAGGGTACCGTCAGAAGGCCGCGCAGCTCCCCGACGGGC GCTGGACGGTCGGCTATGGCCACACCCTGACCGCCCGCGAGGGCGCC TCTGTCTCGGAAAAGGACGCCGAGGCGCTGCTGCTCTATGATCTCATC TCGGTCGCCCATTCGGTGAACGAGCACACCTACACGCCGCTGAACCA GAACCAGTTCGACGCGTTGGTGTGCTTCGCCTTCAATATCGGCCTCGA CAACTTCCTCCGCTCGGGCGTCCTGCGCCGGATCAACGAGGGCTCGCT GCTGCAAGCCGCGTGCGCGATGGAGATGTGGCGCAAGGCCGATTTCG AGGGCGAGCGCATCGTCATCGATGCACTGGTTCGCCGCCGCTCCGCCG AGAAGACTCTGTTCCTCACGCCGGAGGGATCCGGTAGCGGTTCGGGTA AGAGCATGTCTAGCATGGTGTCAGACACCAGTTGCACATTCCCTTCATC TGATGGCATATTCTGGAAGCATTGGATTCAAACCAAGGATGGGCAGTG TGGCAGTCCATTAGTATCAACTAGAGATGGGTTCATTGTTGGTATACAC TCAGCATCGAATTTCACCAACACAAACAATTATTTCACAAGCGTGCCG AAAAACTTCATGGAATTGTTGACAAATCAGGAGGCGCAGCAGTGGGTT AGTGGTTGGCGATTAAATGCTGACTCAGTATTGTGGGGGGGCCATAAA GTTTTCATGGTGAAACCTGAAGAGCCTTTTCAGCCAGTTAAGGAAGCG ACTCAACTCATGAATGAATTGGTGTACTCGCAATAATACTAGAGCCAGG CATCAAATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTT ATCTGTTGTTTGTCGGTGAACGCTCTCTACTAGAGTCACACTGGCTCAC

		CTTCGGGTGGGCCTTTCTGCGTTTATATACTAGAGTTGACAGCTAGCTC AGTCCTAGGGACTATGCTAGCTACTAGAGCTACTAGAGATTAAAGAGG AGAAATACTAGATGACCATGATTACGCCAAGCTTGATGAAACCGCGTC ATCAGGTCTCCCGGGCCGCCGTCGATCTCATCAAGAGATTCGAAGGGT ACCGTCAGAAGGCCGCGCAGCTCCCCGACGGGCGCTGGACGGTCGGC TATGGCCACACCCTGACCGCCCGCGAGGGCGCCTCTGTCTCGGAAAA GGACGCCGAGGCGCTGCTGCTCTATGATCTCATCTCGGTCGCCCATTCG GTGAACGAGCACACCTACACGCCGCTGAACCAGAACCAGTTCGACGC GTTGGTGTGCTTCGCCTTCAATATCGGCCTCGACAACTTCCTCCGCTCG GGCGTCCTGCGCCGGATCAACGAGGGCTCGCTGCTGCAAGCCGCGTG CGCGATGGAGATGTGGCGCAAGGCCGATTTCGAGGGCGAGCGCATCG TCATCGATGCACTGGTTCGCCGCCGCTCCGCCGAGAAGACTCTGTTCC TCACGCCGGAGGGATCCAGCTCGGGTGGTGGTGGAGAAAGCTTGTTT AAGGGACCACGTGATTACAACCCGATATCGAGCACCATTTGTCATTTAA CGAATGAATCTGATGGGCACACAACATCGTTGTATGGTATTGGATTTGG TCCCTTCATCATTACAAACAAGCACTTGTTTAGAAGAAATAATGGAAC ACTGTTGGTCCAATCACTACATGGTGTATTCAAGGTCAAGAACACCAC GACTTTGCAACAACACCTCATTGATGGGAGGGACATGATAATTATTCGC ATGCCTAAGGATTTCCCACCATTTCCTCAAAAGCTGAAATTTAGAGAG CCACAAAGGGAAGAGCGCATATGTCTTGTGACAACCAACTTCCAAACT TAA
PSCN	mRFP-PopZ expressed under J23116 promoter; SpmXΔC-TEV protease recognition site-eGFP expressed under J23113 promoter; split C terminal of TEV protease expressed under J23117 promoter; split N terminal of TEV protease expressed under J23116 promoter	TTGACAGCTAGCTCAGTCCTAGGGACTATGCTAGCTACTAGAGATTAAA GAGGAGAAATACTAGATGGCTTCCTCCGAAGACGTTATCAAAGAGTTC ATGCGTTTCAAAGTTCGTATGGAAGGTTCCGTTAACGGTCACGAGTTC GAAATCGAAGGTGAAGGTGAAGGTCGTCCGTACGAAGGTACCCAGAC CGCTAAACTGAAAGTTACCAAAGGTGGTCCGCTGCCGTTCGCTTGGGA CATCCTGTCCCCGCAGTTCCAGTACGGTTCCAAAGCTTACGTTAAACA CCCGGCTGACATCCCGGACTACCTGAAACTGTCCTTCCCGGAAGGTTT CAAATGGGAACGTGTTATGAACTTCGAAGACGGTGGTGTTGTTACCGT TACCCAGGACTCCTCCCTGCAAGACGGTGAGTTCATCTACAAAGTTAA ACTGCGTGGTACCAACTTCCCGTCCGACGGTCCGGTTATGCAGAAAAA AACCATGGGTTGGGAAGCTTCCACCGAACGTATGTACCCGGAAGACG GTGCTCTGAAAGGTGAAATCAAAATGCGTCTGAAACTGAAAGACGGT GGTCACTACGACGCTGAAGTTAAAACCACCTACATGGCTAAAAAACCG GTTCAGCTGCCGGGTGCTTACAAAACCGACATCAAACTGGACATCACC TCCCACAACGAAGACTACACCATCGTTGAACAGTACGAACGTGCTGA AGGTCGTCACTCCACCGGTGCTGGATCATCTGGCTCATCGGGATCCAT GTCCGATCAGTCTCAAGAACCTACAATGGAGGAAATCCTCGCCTCCAT TCGACGCATCATCTCGGAGGATGACGCGCCGGCGGAGCCTGCGGCCG AAGCGGCGCCCCCGCCGCCGCCGGAACCCGAACCTGAACCGGTGTCG TTCGACGACGAGGTTCTGGAATTGACGGACCCGATCGCGCCCGAGCC CGAGCTGCCGCCGCTGGAGACTGTCGGCGACATCGACGTCTATTCGCC GCCGGAACCTGAGTCGGAACCGGCCTACACGCCGCCGCCGGCGGCTC CGGTGTTTGATCGCGACGAAGTCGCCGAGCAGCTGGTCGGCGTTTCG GCCGCTTCGGCCGCGGCGAGCGCCTTCGGCAGCCTGAGCTCGGCCCT GCTGATGCCCAAGGACGGTCGGACGCTGGAAGACGTCGTACGCGAGC TGCTGCGCCCGCTGCTCAAGGAGTGGCTGGACCAGAACCTGCCGCGC ATCGTCGAGACCAAGGTTGAGGAAGAAGTGCAGCGTATCTCTCGGGG ACGCGGCGCCTGTTGTCCAGGATGTTGTTAAACTAGAGCCAGGCATCA AATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTATCTG TTGTTTGTCGGTGAACGCTCTCTACTAGAGTCACACTGGCTCACCTTC GGGTGGGCCTTTCTGCGTTTATATACTAGAGCTGATGGCTAGCTCAGTC CTAGGGATTATGCTAGCTACTAGAGATTAAAGAGGAGAAATACTAGATG ACCATGATTACGCCAAGCTTGATGAAACCGCGTCATCAGGTCTCCCGG GCCGCCGTCGATCTCATCAAGAGATTCGAAGGGTACCGTCAGAAGGCC GCGCAGCTCCCCGACGGGCGCTGGACGGTCGGCTATGGCCACACCCT GACCGCCCGCGAGGGCGCCTCTGTCTCGGAAAAGGACGCCGAGGCGC TGCTGCTCTATGATCTCATCTCGGTCGCCCATTCGGTGAACGAGCACAC CTACACGCCGCTGAACCAGAACCAGTTCGACGCGTTGGTGTGCTTCGC CTTCAATATCGGCCTCGACAACTTCCTCCGCTCGGGCGTCCTGCGCCG GATCAACGAGGGCTCGCTGCTGCAAGCCGCGTGCGCGATGGAGATGT GGCGCAAGGCCGATTTCGAGGGCGAGCGCATCGTCATCGATGCACTGG TTCGCCGCCGCTCCGCCGAGAAGACTCTGTTCCTCACGCCGGAGGGAT

		CCGGTAGGATTTCAGAATTGGGTACCGGTGGTGAGAACCTGTACGTAC AGGGCGAATTCGGGCTCGAGATGGTGAGCAAGGGCGAGGAGCTGTTC ACCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGG CCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACG GCAAGCTGACCCTGAAGTTCATCTGCACCACCGGCAAGCTGCCCGTG CCCTGGCCCACCCTCGTGACCACCCTGACCTACGGCGTGCAGTGCTTC AGCCGCTACCCCGACCACATGAAGCAGCACGACTTCTTCAAGTCCGCC ATGCCCGAAGGCTACGTCCAGGAGCGCACCATCTTCTTCAAGGACGAC GGCAACTACAAGACCCGCGCCGAGGTGAAGTTCGAGGGCGACACCCT GGTGAACCGCATCGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCA ACATCCTGGGGCACAAGCTGGAGTACAACTACAACAGCCACAACGTC TATATCATGGCCGACAAGCAGAAGAACGGCATCAAGGTGAACTTCAAG ATCCGCCACAACATCGAGGACGGCAGCGTGCAGCTCGCCGACCACTA CCAGCAGAACACCCCCATCGGCGACGGCCCCGTGCTGCTGCCCGACA ACCACTACCTGAGCACCCAGTCCGCCCTGAGCAAAGACCCCAACGAG AAGCGCGATCACATGGTCCTGCTGGAGTTCGTGACCGCCGCCGGGATC ACTCTCGGCATGGACGAGCTGTACAAGGTCGAGCACCACCACCACCA CCACTAGAGCCAGGCATCAAATAAAACGAAAGGCTCAGTCGAAAGAC TGGGCCTTTCGTTTTATCTGTTGTTTGTCGGTGAACGCTCTCTACTAGA GTCACACTGGCTCACCTTCGGGTGGGCCTTTCTGCGTTTATATACTAGA GTTGACAGCTAGCTCAGTCCTAGGGACTATGCTAGCTACTAGAGCTACT AGAGATTAAAGAGGAGAAATACTAGATGACCATGATTACGCCAAGCTT GCATGCCTGTAGGTCGACGCTAGAGGGATCCGGTAGCGGTTCGGGTAA GAGCATGTCTAGCATGGTGTCAGACACCAGTTGCACATTCCCTTCATCT GATGGCATATTCTGGAAGCATTGGATTCAAACCAAGGATGGGCAGTGT GGCAGTCCATTAGTATCAACTAGAGATGGGTTCATTGTTGGTATACACT CAGCATCGAATTTCACCAACACAAACAATTATTTCACAAGCGTGCCGA AAAACTTCATGGAATTGTTGACAAATCAGGAGGCGCAGCAGTGGGTTA GTGGTTGGCGATTAAATGCTGACTCAGTATTGTGGGGGGGCCATAAAG TTTTCATGGTGAAACCTGAAGAGCCTTTTCAGCCAGTTAAGGAAGCGA CTCAACTCATGAATGAATTGGTGTACTCGCAATAATACTAGAGCCAGGC ATCAAATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTA TCTGTTGTTTGTCGGTGAACGCTCTCTACTAGAGTCACACTGGCTCAC CTTCGGGTGGGCCTTTCTGCGTTTATATACTAGAGTTGACAGCTAGCTC AGTCCTAGGGATTGTGCTAGCTACTAGAGCTACTAGAGATTAAAGAGG AGAAATACTAGATGACCATGATTACGCCAAGCTTGCATGCCTGTAGGTC GACGCTAGAGGGATCCAGCTCGGGTGGTGGTGGAGAAAGCTTGTTTA AGGGACCACGTGATTACAACCCGATATCGAGCACCATTTGTCATTTAAC GAATGAATCTGATGGGCACACAACATCGTTGTATGGTATTGGATTTGGT CCCTTCATCATTACAAACAAGCACTTGTTTAGAAGAAATAATGGAACA CTGTTGGTCCAATCACTACATGGTGTATTCAAGGTCAAGAACACCACG ACTTTGCAACAACACCTCATTGATGGGAGGGACATGATAATTATTCGCA TGCCTAAGGATTTCCCACCATTTCCTCAAAAGCTGAAATTTAGAGAGC CACAAAGGGAAGAGCGCATATGTCTTGTGACAACCAACTTCCAAACTT AA
PS	mRFP-PopZ expressed under J23116 promoter; SpmXΔC-TEV protease recognition site-eGFP expressed under J23113 promoter	TTGACAGCTAGCTCAGTCCTAGGGACTATGCTAGCTACTAGAGATTAAA GAGGAGAAATACTAGATGGCTTCCTCCGAAGACGTTATCAAAGAGTTC ATGCGTTTCAAAGTTCGTATGGAAGGTTCCGTTAACGGTCACGAGTTC GAAATCGAAGGTGAAGGTGAAGGTCGTCCGTACGAAGGTACCCAGAC CGCTAAACTGAAAGTTACCAAAGGTGGTCCGCTGCCGTTCGCTTGGGA CATCCTGTCCCCGCAGTTCCAGTACGGTTCCAAAGCTTACGTTAAACA CCCGGCTGACATCCCGGACTACCTGAAACTGTCCTTCCCGGAAGGTTT CAAATGGGAACGTGTTATGAACTTCGAAGACGGTGGTGTTGTTACCGT TACCCAGGACTCCTCCCTGCAAGACGGTGAGTTCATCTACAAAGTTAA ACTGCGTGGTACCAACTTCCCGTCCGACGGTCCGGTTATGCAGAAAAA AACCATGGGTTGGGAAGCTTCCACCGAACGTATGTACCCGGAAGACG GTGCTCTGAAAGGTGAAATCAAAATGCGTCTGAAACTGAAAGACGGT GGTCACTACGACGCTGAAGTTAAAACCACCTACATGGCTAAAAAACCG GTTCAGCTGCCGGGTGCTTACAAAACCGACATCAAACTGGACATCACC TCCCACAACGAAGACTACACCATCGTTGAACAGTACGAACGTGCTGA AGGTCGTCACTCCACCGGTGCTGGATCATCTGGCTCATCGGGATCCAT GTCCGATCAGTCTCAAGAACCTACAATGGAGGAAATCCTCGCCTCCAT TCGACGCATCATCTCGGAGGATGACGCGCCGGCGGAGCCTGCGGCCG

		AAGCGGCGCCCCCGCCGCCGCCGGAACCCGAACCTGAACCGGTGTCG TTCGACGACGAGGTTCTGGAATTGACGGACCCGATCGCGCCCGAGCC CGAGCTGCCGCCGCTGGAGACTGTCGGCGACATCGACGTCTATTCGCC GCCGGAACCTGAGTCGGAACCGGCCTACACGCCGCCGCCGGCGGCTC CGGTGTTTGATCGCGACGAAGTCGCCGAGCAGCTGGTCGGCGTTTCG GCCGCTTCGGCCGCGGCGAGCGCCTTCGGCAGCCTGAGCTCGGCCCT GCTGATGCCCAAGGACGGTCGGACGCTGGAAGACGTCGTACGCGAGC TGCTGCGCCCGCTGCTCAAGGAGTGGCTGGACCAGAACCTGCCGCGC ATCGTCGAGACCAAGGTTGAGGAAGAAGTGCAGCGTATCTCTCGGGG ACGCGGCGCCTGTTGTCCAGGATGTTGTTAAACTAGAGCCAGGCATCA AATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTATCTG TTGTTTGTCGGTGAACGCTCTCTACTAGAGTCACACTGGCTCACCTTC GGGTGGGCCTTTCTGCGTTTATATACTAGAGCTGATGGCTAGCTCAGTC CTAGGGATTATGCTAGCTACTAGAGATTAAAGAGGAGAAATACTAGATG ACCATGATTACGCCAAGCTTGATGAAACCGCGTCATCAGGTCTCCCGG GCCGCCGTCGATCTCATCAAGAGATTCGAAGGGTACCGTCAGAAGGCC GCGCAGCTCCCCGACGGGCGCTGGACGGTCGGCTATGGCCACACCCT GACCGCCCGCGAGGGCGCCTCTGTCTCGGAAAAGGACGCCGAGGCGC TGCTGCTCTATGATCTCATCTCGGTCGCCCATTCGGTGAACGAGCACAC CTACACGCCGCTGAACCAGAACCAGTTCGACGCGTTGGTGTGCTTCGC CTTCAATATCGGCCTCGACAACTTCCTCCGCTCGGGCGTCCTGCGCCG GATCAACGAGGGCTCGCTGCTGCAAGCCGCGTGCGCGATGGAGATGT GGCGCAAGGCCGATTTCGAGGGCGAGCGCATCGTCATCGATGCACTGG TTCGCCGCCGCTCCGCCGAGAAGACTCTGTTCCTCACGCCGGAGGGAT CCGGTAGGATTTCAGAATTGGGTACCGGTGGTGAGAACCTGTACGTAC AGGGCGAATTCGGGCTCGAGATGGTGAGCAAGGGCGAGGAGCTGTTC ACCGGGGTGGTGCCCATCCTGGTCGAGCTGGACGGCGACGTAAACGG CCACAAGTTCAGCGTGTCCGGCGAGGGCGAGGGCGATGCCACCTACG GCAAGCTGACCCTGAAGTTCATCTGCACCACCGGCAAGCTGCCCGTG CCCTGGCCCACCCTCGTGACCACCCTGACCTACGGCGTGCAGTGCTTC AGCCGCTACCCCGACCACATGAAGCAGCACGACTTCTTCAAGTCCGCC ATGCCCGAAGGCTACGTCCAGGAGCGCACCATCTTCTTCAAGGACGAC GGCAACTACAAGACCCGCGCCGAGGTGAAGTTCGAGGGCGACACCCT GGTGAACCGCATCGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCA ACATCCTGGGGCACAAGCTGGAGTACAACTACAACAGCCACAACGTC TATATCATGGCCGACAAGCAGAAGAACGGCATCAAGGTGAACTTCAAG ATCCGCCACAACATCGAGGACGGCAGCGTGCAGCTCGCCGACCACTA CCAGCAGAACACCCCCATCGGCGACGGCCCCGTGCTGCTGCCCGACA ACCACTACCTGAGCACCCAGTCCGCCCTGAGCAAAGACCCCAACGAG AAGCGCGATCACATGGTCCTGCTGGAGTTCGTGACCGCCGCCGGGATC ACTCTCGGCATGGACGAGCTGTACAAGGTCGAGCACCACCACCACCA CCACTAG
NSSCP	mRFP-PopZ expressed under J23116 promoter; split N terminal of TEV protease-SpmXΔC expressed under Tac promote; SpmXΔC-split C terminal of TEV protease expressed under Tac promoter; DivIVA-sfGFP-TEV protease recognition site-M0050 expressed under J23116 promoter	TTGACAGCTAGCTCAGTCCTAGGGACTATGCTAGCTACTAGAGATTAAA GAGGAGAAATACTAGATGGCTTCCTCCGAAGACGTTATCAAAGAGTTC ATGCGTTTCAAAGTTCGTATGGAAGGTTCCGTTAACGGTCACGAGTTC GAAATCGAAGGTGAAGGTGAAGGTCGTCCGTACGAAGGTACCCAGAC CGCTAAACTGAAAGTTACCAAAGGTGGTCCGCTGCCGTTCGCTTGGGA CATCCTGTCCCCGCAGTTCCAGTACGGTTCCAAAGCTTACGTTAAACA CCCGGCTGACATCCCGGACTACCTGAAACTGTCCTTCCCGGAAGGTTT CAAATGGGAACGTGTTATGAACTTCGAAGACGGTGGTGTTGTTACCGT TACCCAGGACTCCTCCCTGCAAGACGGTGAGTTCATCTACAAAGTTAA ACTGCGTGGTACCAACTTCCCGTCCGACGGTCCGGTTATGCAGAAAAA AACCATGGGTTGGGAAGCTTCCACCGAACGTATGTACCCGGAAGACG GTGCTCTGAAAGGTGAAATCAAAATGCGTCTGAAACTGAAAGACGGT GGTCACTACGACGCTGAAGTTAAAACCACCTACATGGCTAAAAAACCG GTTCAGCTGCCGGGTGCTTACAAAACCGACATCAAACTGGACATCACC TCCCACAACGAAGACTACACCATCGTTGAACAGTACGAACGTGCTGA AGGTCGTCACTCCACCGGTGCTGGATCATCTGGCTCATCGGGATCCAT GTCCGATCAGTCTCAAGAACCTACAATGGAGGAAATCCTCGCCTCCAT TCGACGCATCATCTCGGAGGATGACGCGCCGGCGGAGCCTGCGGCCG AAGCGGCGCCCCCGCCGCCGCCGGAACCCGAACCTGAACCGGTGTCG TTCGACGACGAGGTTCTGGAATTGACGGACCCGATCGCGCCCGAGCC CGAGCTGCCGCCGCTGGAGACTGTCGGCGACATCGACGTCTATTCGCC

		GCCGGAACCTGAGTCGGAACCGGCCTACACGCCGCCGCCGGCGGCTC CGGTGTTTGATCGCGACGAAGTCGCCGAGCAGCTGGTCGGCGTTTCG GCCGCTTCGGCCGCGGCGAGCGCCTTCGGCAGCCTGAGCTCGGCCCT GCTGATGCCCAAGGACGGTCGGACGCTGGAAGACGTCGTACGCGAGC TGCTGCGCCCGCTGCTCAAGGAGTGGCTGGACCAGAACCTGCCGCGC ATCGTCGAGACCAAGGTTGAGGAAGAAGTGCAGCGTATCTCTCGGGG ACGCGGCGCCTGTTGTCCAGGATGTTGTTAAACTAGAGCCAGGCATCA AATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTATCTG TTGTTTGTCGGTGAACGCTCTCTACTAGAGTCACACTGGCTCACCTTC GGGTGGGCCTTTCTGCGTTTATATACTAGAATATTCAGCAATTTGCCCGT GCCGAAGAAAGGCCCACCCGTGAAGGTGAGCCAGTGAGTTGATTGCT ACGTAATGTCGGCCAATTCGCGCTAACTTACATTAATTGCGTTGCGCTC ACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATG AATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCCAGG GTGGTTTTTCTTTTCACCAGTGAGACTGGCAACAGCTGATTGCCCTTC ACCGCCTGGCCCTGAGAGAGTTGCAGCAAGCGGTCCACGCTGGTTTG CCCCAGCAGGCGAAAATCCTGTTTGATGGTGGTTAACGGCGGGATATA ACATGAGCTATCTTCGGTATCGTCGTATCCCACTACCGAGATATCCGCA CCAACGCGCAGCCCGGACTCGGTAATGGCGCGCATTGCGCCCAGCGC CATCTGATCGTTGGCAACCAGCATCGCAGTGGGAACGATGCCCTCATT CAGCATTTGCATGGTTTGTTGAAAACCGGACATGGCACTCCAGTCGCC TTCCCGTTCCGCTATCGGCTGAATTTGATTGCGAGTGAGATATTTATGCC AGCCAGCCAGACGCAGACGCGCCGAGACAGAACTTAATGGGCCCGCT AACAGCGCGATTTGCTGGTGACCCAATGCGACCAGATGCTCCACGCCC AGTCGCGTACCGTCCTCATGGGAGAAAATAATACTGTTGATGGGTGTCT GGTCAGAGACATCAAGAAATAACGCCGGAACATTAGTGCAGGCAGCT TCCACAGCAATGGCATCCTGGTCATCCAGCGGATAGTTAATGATCAGCC CACTGACGCGTTGCGCGAGAAGATTGTGCACCGCCGCTTTACAGGCTT CGACGCCGCTTCGTTCTACCATCGACACCACCACGCTGGCACCCAGTT GATCGGCGCGAGATTTAATCGCCGCGACAATTTGCGACGGCGCGTGCA GGGCCAGACTGGAGGTGGCAACGCCAATCAGCAACGACTGTTTGCCC GCCAGTTGTTGTGCCACGCGGTTGGGAATGTAATTCAGCTCCGCCATC GCCGCTTCCACTTTTTCCCGCGTTTTCGCAGAAACGTGGCTGGCCTGG TTCACCACGCGGGAAACGGTCTGATAAGAGACACCGGCATACTCTGCG ACATCGTATAACGTTACTGGTTTCATATTCACCACCCTGAATTGACTCTC TTCCGGGCGCTATCATGCCATACCGCGAAAGGTTTTGCGCCATTCGATG GCGCGCCGCTTCGTCAGGCCACATAGCTTTCTTGTTCTGATCGGAACG ATCGTTGGCTGTGTTGACAATTAATCATCGGCTCGTATAATGTGTGGAA TTGTGAGCGCTCACAATTCTATGGACTATACTAGATTAAAGAGGAGAAA TACCCAAGCTTGGGAGAGAGCTTGTTTAAGGGACCACGTGATTACAAC CCGATATCGAGCACCATTTGTCATTTAACGAATGAATCTGATGGGCACA CAACATCGTTGTATGGTATTGGATTTGGTCCCTTCATCATTACAAACAA GCACTTGTTTAGAAGAAATAATGGAACACTGTTGGTCCAATCACTACAT GGTGTATTCAAGGTCAAGAACACCACGACTTTGCAACAACACCTCATT GATGGGAGGGACATGATAATTATTCGCATGCCTAAGGATTTCCCACCAT TTCCTCAAAAGCTGAAATTTAGAGAGCCACAAAGGGAAGAGCGCATA TGTCTTGTGACAACCAACTTCCAAACTCAAACAGAGCAGAACGCGGA TCCGGTTCAAATGAAACCGCGTCATCAGGTCTCCCGGGCCGCCGTCGA TCTCATCAAGAGATTCGAAGGGTACCGTCAGAAGGCCGCGCAGCTCCC CGACGGGCGCTGGACGGTCGGCTATGGCCACACCCTGACCGCCCGCG AGGGCGCCTCTGTCTCGGAAAAGGACGCCGAGGCGCTGCTGCTCTAT GATCTCATCTCGGTCGCCCATTCGGTGAACGAGCACACCTACACGCCG CTGAACCAGAACCAGTTCGACGCGTTGGTGTGCTTCGCCTTCAATATC GGCCTCGACAACTTCCTCCGCTCGGGCGTCCTGCGCCGGATCAACGAG GGCTCGCTGCTGCAAGCCGCGTGCGCGATGGAGATGTGGCGCAAGGC CGATTTCGAGGGCGAGCGCATCGTCATCGATGCACTGGTTCGCCGCCG CTCCGCCGAGAAGACTCTCTAAACTAGAGCCAGGCATCAAATAAAACG AAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTATCTGTTGTTTGTC GGTGAACGCTCTCTACTAGAGTCACACTGGCTCACCTTCGGGTGGGCC TTTCTGCGTTTATATACTAGAATATTCAGCAATTTGCCCGTGCCGAAGA AAGGCCCACCCGTGAAGGTGAGCCAGTGAGTTGATTGCTACGTAATGT CGGCCAATTCGCGCTAACTTACATTAATTGCGTTGCGCTCACTGCCCGC TTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCA

		ACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCCAGGGTGGTTTTTC TTTTCACCAGTGAGACTGGCAACAGCTGATTGCCCTTCACCGCCTGGC CCTGAGAGAGTTGCAGCAAGCGGTCCACGCTGGTTTGCCCCAGCAGG CGAAAATCCTGTTTGATGGTGGTTAACGGCGGGATATAACATGAGCTAT CTTCGGTATCGTCGTATCCCACTACCGAGATATCCGCACCAACGCGCAG CCCGGACTCGGTAATGGCGCGCATTGCGCCCAGCGCCATCTGATCGTT GGCAACCAGCATCGCAGTGGGAACGATGCCCTCATTCAGCATTTGCAT GGTTTGTTGAAAACCGGACATGGCACTCCAGTCGCCTTCCCGTTCCGC TATCGGCTGAATTTGATTGCGAGTGAGATATTTATGCCAGCCAGCCAGA CGCAGACGCGCCGAGACAGAACTTAATGGGCCCGCTAACAGCGCGAT TTGCTGGTGACCCAATGCGACCAGATGCTCCACGCCCAGTCGCGTACC GTCCTCATGGGAGAAAATAATACTGTTGATGGGTGTCTGGTCAGAGAC ATCAAGAAATAACGCCGGAACATTAGTGCAGGCAGCTTCCACAGCAAT GGCATCCTGGTCATCCAGCGGATAGTTAATGATCAGCCCACTGACGCG TTGCGCGAGAAGATTGTGCACCGCCGCTTTACAGGCTTCGACGCCGCT TCGTTCTACCATCGACACCACCACGCTGGCACCCAGTTGATCGGCGCG AGATTTAATCGCCGCGACAATTTGCGACGGCGCGTGCAGGGCCAGACT GGAGGTGGCAACGCCAATCAGCAACGACTGTTTGCCCGCCAGTTGTT GTGCCACGCGGTTGGGAATGTAATTCAGCTCCGCCATCGCCGCTTCCA CTTTTTCCCGCGTTTTCGCAGAAACGTGGCTGGCCTGGTTCACCACGC GGGAAACGGTCTGATAAGAGACACCGGCATACTCTGCGACATCGTATA ACGTTACTGGTTTCATATTCACCACCCTGAATTGACTCTCTTCCGGGCG CTATCATGCCATACCGCGAAAGGTTTTGCGCCATTCGATGGCGCGCCGC TTCGTCAGGCCACATAGCTTTCTTGTTCTGATCGGAACGATCGTTGGCT GTGTTGACAATTAATCATCGGCTCGTATAATGTGTGGAATTGTGAGCGC TCACAATTCTATGGACTATACTAGATTAAAGAGGAGAAATACTAGATGA AACCGCGTCATCAGGTCTCCCGGGCCGCCGTCGATCTCATCAAGAGAT TCGAAGGGTACCGTCAGAAGGCCGCGCAGCTCCCCGACGGGCGCTGG ACGGTCGGCTATGGCCACACCCTGACCGCCCGCGAGGGCGCCTCTGTC TCGGAAAAGGACGCCGAGGCGCTGCTGCTCTATGATCTCATCTCGGTC GCCCATTCGGTGAACGAGCACACCTACACGCCGCTGAACCAGAACCA GTTCGACGCGTTGGTGTGCTTCGCCTTCAATATCGGCCTCGACAACTTC CTCCGCTCGGGCGTCCTGCGCCGGATCAACGAGGGCTCGCTGCTGCA AGCCGCGTGCGCGATGGAGATGTGGCGCAAGGCCGATTTCGAGGGCG AGCGCATCGTCATCGATGCACTGGTTCGCCGCCGCTCCGCCGAGAAGA CTCTGTTCCTCACGCCGGGAGCCTCCACCAGAACCGCCTCCGGATCCG GTAGCGGTTCGGGTAAGAGCATGTCTAGCATGGTGTCAGACACCAGTT GCACATTCCCTTCATCTGATGGCATATTCTGGAAGCATTGGATTCAAAC CAAGGATGGGCAGTGTGGCAGTCCATTAGTATCAACTAGAGATGGGTT CATTGTTGGTATACACTCAGCATCGAATTTCACCAACACAAACAATTAT TTCACAAGCGTGCCGAAAAACTTCATGGAATTGTTGACAAATCAGGAG GCGCAGCAGTGGGTTAGTGGTTGGCGATTAAATGCTGACTCAGTATTG TGGGGGGGCCATAAAGTTTTCATGGTGAAACCTGAAGAGCCTTTTCAG CCAGTTAAGGAAGCGACTCAACTCATGAATGAATTGGTGTACTCGCAA TAACCAAGCTTGGGGCTCTCTACTAGAGTCACACTGGCTCACCTTCGG GTGGGCCTTTCTGCGTTTATATACTAGAGTTGACAGCTAGCTCAGTCCT AGGGACTATGCTAGCTACTAGAGTTTACGGCTAGCTACTAGAGAAAGA GGAGAAAAAGCTTCTATGCCATTAACGCCAAATGATATTCACAACAAG ACGTTTACAAAAAGTTTTCGCGGATATGATGAAGATGAAGTAAATGAA TTTCTAGCCCAAGTCAGAAAAGATTACGAAATTGTTCTCCGCAAGAAA ACTGAGCTTGAAGCGAAAGTCAATGAGCTTGATGAAAGAATCGGACA CTTTGCCAATATTGAGGAGACATTGAATAAATCAATTTTAGTTGCTCAA GAAGCGGCTGAAGACGTAAAACGCAATTCTCAAAAAGAAGCAAAGCT GATCGTTCGGGAAGCGGAGAAAAACGCTGATCGCATTATCAACGAATC GTTATCAAAATCAAGAAAAATTGCAATGGAAATTGAAGAGCTGAAAA AACAGTCTAAAGTGTTCAGAACACGTTTCCAAATGCTGATTGAAGCTC AGCTTGATCTTCTGAAAAATGACGATTGGGATCATCTCCTTGAGTATGA AGTCGACGCAGTATTTGAGGAAAAGGAAAAACTGGATATTGAATTTCT GCAAGTACCGATGAGCAAAGGAGAAGAACTTTTCACTGGAGTTGTCC CAATTCTTGTTGAATTAGATGGTGATGTTAATGGGCACAAATTTTCTGT CCGTGGAGAGGGTGAAGGTGATGCTACAAACGGAAAACTCACCCTTA AATTTATTTGCACTACTGGAAAACTACCTGTTCCGTGGCCAACACTTGT CACTACTCTGACCTATGGTGTTCAATGCTTTTCCCGTTATCCGGATCACA

		TGAAACGGCATGACTTTTTCAAGAGTGCCATGCCCGAAGGTTATGTAC AGGAACGCACTATATCTTTCAAAGATGACGGGACCTACAAGACGCGTG CTGAAGTCAAGTTTGAAGGTGATACCCTTGTTAATCGTATCGAGTTAAA GGGTATTGATTTTAAAGAAGATGGAAACATTCTTGGACACAAACTCGA GTACAACTTTAACTCACACAATGTATACATCACGGCAGACAAACAAAA GAATGGAATCAAAGCTAACTTCAAAATTCGCCACAACGTTGAAGATGG TTCCGTTCAACTAGCAGACCATTATCAACAAAATACTCCAATTGGCGAT GGCCCTGTCCTTTTACCAGACAACCATTACCTGTCGACACAATCTGTCC TTTCGAAAGATCCCAACGAAAAGCGTGACCACATGGTCCTTCTTGAGT TTGTAACTGCTGCTGGGATTACACATGGCATGGATGAGCTCTACAAAG AAAACCTGTATTTTCAGAGCGCTGCTAACGACGAAAACTACGCTCTGG CTGCTTAA
NSSC	Split N terminal of TEV protease-SpmXΔC expressed under Tac promoter; SpmXΔC-split C terminal of TEV protease expressed under Tac promoter; DivIVA-sfGFP-TEV protease recognition site-M0050 expressed under J23116 promoter	CGAAGAAAGGCCCACCCGTGAAGGTGAGCCAGTGAGTTGATTGCTAC GTAATGTCGGCCAATTCGCGCTAACTTACATTAATTGCGTTGCGCTCAC TGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAA TCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCCAGGGT GGTTTTTCTTTTCACCAGTGAGACTGGCAACAGCTGATTGCCCTTCAC CGCCTGGCCCTGAGAGAGTTGCAGCAAGCGGTCCACGCTGGTTTGCC CCAGCAGGCGAAAATCCTGTTTGATGGTGGTTAACGGCGGGATATAAC ATGAGCTATCTTCGGTATCGTCGTATCCCACTACCGAGATATCCGCACC AACGCGCAGCCCGGACTCGGTAATGGCGCGCATTGCGCCCAGCGCCAT CTGATCGTTGGCAACCAGCATCGCAGTGGGAACGATGCCCTCATTCAG CATTTGCATGGTTTGTTGAAAACCGGACATGGCACTCCAGTCGCCTTC CCGTTCCGCTATCGGCTGAATTTGATTGCGAGTGAGATATTTATGCCAG CCAGCCAGACGCAGACGCGCCGAGACAGAACTTAATGGGCCCGCTAA CAGCGCGATTTGCTGGTGACCCAATGCGACCAGATGCTCCACGCCCAG TCGCGTACCGTCCTCATGGGAGAAAATAATACTGTTGATGGGTGTCTGG TCAGAGACATCAAGAAATAACGCCGGAACATTAGTGCAGGCAGCTTCC ACAGCAATGGCATCCTGGTCATCCAGCGGATAGTTAATGATCAGCCCA CTGACGCGTTGCGCGAGAAGATTGTGCACCGCCGCTTTACAGGCTTCG ACGCCGCTTCGTTCTACCATCGACACCACCACGCTGGCACCCAGTTGA TCGGCGCGAGATTTAATCGCCGCGACAATTTGCGACGGCGCGTGCAGG GCCAGACTGGAGGTGGCAACGCCAATCAGCAACGACTGTTTGCCCGC CAGTTGTTGTGCCACGCGGTTGGGAATGTAATTCAGCTCCGCCATCGC CGCTTCCACTTTTTCCCGCGTTTTCGCAGAAACGTGGCTGGCCTGGTT CACCACGCGGGAAACGGTCTGATAAGAGACACCGGCATACTCTGCGA CATCGTATAACGTTACTGGTTTCATATTCACCACCCTGAATTGACTCTCT TCCGGGCGCTATCATGCCATACCGCGAAAGGTTTTGCGCCATTCGATGG CGCGCCGCTTCGTCAGGCCACATAGCTTTCTTGTTCTGATCGGAACGAT CGTTGGCTGTGTTGACAATTAATCATCGGCTCGTATAATGTGTGGAATT GTGAGCGCTCACAATTCTATGGACTATACTAGATTAAAGAGGAGAAATA CCCAAGCTTGGGAGAGAGCTTGTTTAAGGGACCACGTGATTACAACCC GATATCGAGCACCATTTGTCATTTAACGAATGAATCTGATGGGCACACA ACATCGTTGTATGGTATTGGATTTGGTCCCTTCATCATTACAAACAAGC ACTTGTTTAGAAGAAATAATGGAACACTGTTGGTCCAATCACTACATG GTGTATTCAAGGTCAAGAACACCACGACTTTGCAACAACACCTCATTG ATGGGAGGGACATGATAATTATTCGCATGCCTAAGGATTTCCCACCATT TCCTCAAAAGCTGAAATTTAGAGAGCCACAAAGGGAAGAGCGCATAT GTCTTGTGACAACCAACTTCCAAACTCAAACAGAGCAGAACGCGGAT CCGGTTCAAATGAAACCGCGTCATCAGGTCTCCCGGGCCGCCGTCGAT CTCATCAAGAGATTCGAAGGGTACCGTCAGAAGGCCGCGCAGCTCCC CGACGGGCGCTGGACGGTCGGCTATGGCCACACCCTGACCGCCCGCG AGGGCGCCTCTGTCTCGGAAAAGGACGCCGAGGCGCTGCTGCTCTAT GATCTCATCTCGGTCGCCCATTCGGTGAACGAGCACACCTACACGCCG CTGAACCAGAACCAGTTCGACGCGTTGGTGTGCTTCGCCTTCAATATC GGCCTCGACAACTTCCTCCGCTCGGGCGTCCTGCGCCGGATCAACGAG GGCTCGCTGCTGCAAGCCGCGTGCGCGATGGAGATGTGGCGCAAGGC CGATTTCGAGGGCGAGCGCATCGTCATCGATGCACTGGTTCGCCGCCG CTCCGCCGAGAAGACTCTGTTCCTCACGCCGTAAACTAGAGCCAGGCA TCAAATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTTCGTTTTAT CTGTTGTTTGTCGGTGAACGCTCTCTACTAGAGTCACACTGGCTCACC TTCGGGTGGGCCTTTCTGCGTTTATATACTAGAATATTCAGCAATTTGCC CGTGCCGAAGAAAGGCCCACCCGTGAAGGTGAGCCAGTGAGTTGATT

		GCTACGTAATGTCGGCCAATTCGCGCTAACTTACATTAATTGCGTTGCG CTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTA ATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCGTATTGGGCGCC AGGGTGGTTTTTCTTTTCACCAGTGAGACTGGCAACAGCTGATTGCCC TTCACCGCCTGGCCCTGAGAGAGTTGCAGCAAGCGGTCCACGCTGGT TTGCCCCAGCAGGCGAAAATCCTGTTTGATGGTGGTTAACGGCGGGAT ATAACATGAGCTATCTTCGGTATCGTCGTATCCCACTACCGAGATATCCG CACCAACGCGCAGCCCGGACTCGGTAATGGCGCGCATTGCGCCCAGC GCCATCTGATCGTTGGCAACCAGCATCGCAGTGGGAACGATGCCCTCA TTCAGCATTTGCATGGTTTGTTGAAAACCGGACATGGCACTCCAGTCG CCTTCCCGTTCCGCTATCGGCTGAATTTGATTGCGAGTGAGATATTTATG CCAGCCAGCCAGACGCAGACGCGCCGAGACAGAACTTAATGGGCCCG CTAACAGCGCGATTTGCTGGTGACCCAATGCGACCAGATGCTCCACGC CCAGTCGCGTACCGTCCTCATGGGAGAAAATAATACTGTTGATGGGTG TCTGGTCAGAGACATCAAGAAATAACGCCGGAACATTAGTGCAGGCA GCTTCCACAGCAATGGCATCCTGGTCATCCAGCGGATAGTTAATGATCA GCCCACTGACGCGTTGCGCGAGAAGATTGTGCACCGCCGCTTTACAGG CTTCGACGCCGCTTCGTTCTACCATCGACACCACCACGCTGGCACCCA GTTGATCGGCGCGAGATTTAATCGCCGCGACAATTTGCGACGGCGCGT GCAGGGCCAGACTGGAGGTGGCAACGCCAATCAGCAACGACTGTTTG CCCGCCAGTTGTTGTGCCACGCGGTTGGGAATGTAATTCAGCTCCGCC ATCGCCGCTTCCACTTTTTCCCGCGTTTTCGCAGAAACGTGGCTGGCC TGGTTCACCACGCGGGAAACGGTCTGATAAGAGACACCGGCATACTCT GCGACATCGTATAACGTTACTGGTTTCATATTCACCACCCTGAATTGAC TCTCTTCCGGGCGCTATCATGCCATACCGCGAAAGGTTTTGCGCCATTC GATGGCGCGCCGCTTCGTCAGGCCACATAGCTTTCTTGTTCTGATCGGA ACGATCGTTGGCTGTGTTGACAATTAATCATCGGCTCGTATAATGTGTG GAATTGTGAGCGCTCACAATTCTATGGACTATACTAGATTAAAGAGGAG AAATACTAGATGAAACCGCGTCATCAGGTCTCCCGGGCCGCCGTCGAT CTCATCAAGAGATTCGAAGGGTACCGTCAGAAGGCCGCGCAGCTCCC CGACGGGCGCTGGACGGTCGGCTATGGCCACACCCTGACCGCCCGCG AGGGCGCCTCTGTCTCGGAAAAGGACGCCGAGGCGCTGCTGCTCTAT GATCTCATCTCGGTCGCCCATTCGGTGAACGAGCACACCTACACGCCG CTGAACCAGAACCAGTTCGACGCGTTGGTGTGCTTCGCCTTCAATATC GGCCTCGACAACTTCCTCCGCTCGGGCGTCCTGCGCCGGATCAACGAG GGCTCGCTGCTGCAAGCCGCGTGCGCGATGGAGATGTGGCGCAAGGC CGATTTCGAGGGCGAGCGCATCGTCATCGATGCACTGGTTCGCCGCCG CTCCGCCGAGAAGACTCTGTTCCTCACGCCGGGAGCCTCCACCAGAA CCGCCTCCGGATCCGGTAGCGGTTCGGGTAAGAGCATGTCTAGCATGG TGTCAGACACCAGTTGCACATTCCCTTCATCTGATGGCATATTCTGGAA GCATTGGATTCAAACCAAGGATGGGCAGTGTGGCAGTCCATTAGTATC AACTAGAGATGGGTTCATTGTTGGTATACACTCAGCATCGAATTTCACC AACACAAACAATTATTTCACAAGCGTGCCGAAAAACTTCATGGAATTG TTGACAAATCAGGAGGCGCAGCAGTGGGTTAGTGGTTGGCGATTAAAT GCTGACTCAGTATTGTGGGGGGGCCATAAAGTTTTCATGGTGAAACCT GAAGAGCCTTTTCAGCCAGTTAAGGAAGCGACTCAACTCATGAATGAA TTGGTGTACTCGCAATAACCAAGCTTGGGGCTCTCTACTAGAGTCACA CTGGCTCACCTTCGGGTGGGCCTTTCTGCGTTTATATACTAGAGTTGAC AGCTAGCTCAGTCCTAGGGACTATGCTAGCTACTAGAGTTTACGGCTAG CTACTAGAGAAAGAGGAGAAAAAGCTTCTATGCCATTAACGCCAAATG ATATTCACAACAAGACGTTTACAAAAAGTTTTCGCGGATATGATGAAGA TGAAGTAAATGAATTTCTAGCCCAAGTCAGAAAAGATTACGAAATTGT TCTCCGCAAGAAAACTGAGCTTGAAGCGAAAGTCAATGAGCTTGATG AAAGAATCGGACACTTTGCCAATATTGAGGAGACATTGAATAAATCAA TTTTAGTTGCTCAAGAAGCGGCTGAAGACGTAAAACGCAATTCTCAAA AAGAAGCAAAGCTGATCGTTCGGGAAGCGGAGAAAAACGCTGATCGC ATTATCAACGAATCGTTATCAAAATCAAGAAAAATTGCAATGGAAATTG AAGAGCTGAAAAAACAGTCTAAAGTGTTCAGAACACGTTTCCAAATG CTGATTGAAGCTCAGCTTGATCTTCTGAAAAATGACGATTGGGATCATC TCCTTGAGTATGAAGTCGACGCAGTATTTGAGGAAAAGGAAAAACTG GATATTGAATTTCTGCAAGTACCGATGAGCAAAGGAGAAGAACTTTTC ACTGGAGTTGTCCCAATTCTTGTTGAATTAGATGGTGATGTTAATGGGC ACAAATTTTCTGTCCGTGGAGAGGGTGAAGGTGATGCTACAAACGGA

		AAACTCACCCTTAAATTTATTTGCACTACTGGAAAACTACCTGTTCCGT GGCCAACACTTGTCACTACTCTGACCTATGGTGTTCAATGCTTTTCCCG TTATCCGGATCACATGAAACGGCATGACTTTTTCAAGAGTGCCATGCCC GAAGGTTATGTACAGGAACGCACTATATCTTTCAAAGATGACGGGACC TACAAGACGCGTGCTGAAGTCAAGTTTGAAGGTGATACCCTTGTTAAT CGTATCGAGTTAAAGGGTATTGATTTTAAAGAAGATGGAAACATTCTTG GACACAAACTCGAGTACAACTTTAACTCACACAATGTATACATCACGG CAGACAAACAAAAGAATGGAATCAAAGCTAACTTCAAAATTCGCCAC AACGTTGAAGATGGTTCCGTTCAACTAGCAGACCATTATCAACAAAAT ACTCCAATTGGCGATGGCCCTGTCCTTTTACCAGACAACCATTACCTGT CGACACAATCTGTCCTTTCGAAAGATCCCAACGAAAAGCGTGACCACA TGGTCCTTCTTGAGTTTGTAACTGCTGCTGGGATTACACATGGCATGGA TGAGCTCTACAAAGAAAACCTGTATTTTCAGAGCGCTGCTAACGACGA AAACTACGCTCTGGCTGCTTAA