

ACATGGTGGAGCACGACACTCTCGTCTACTCCAAGAATATCAAAGATACAGTCTCAGAAGACCAGAGGGCTATTGAG
 ACTTTTCAACAAAGGGTAATATCGGGAAACCTCCTCGGATTCCATTGCCCAGCTATCTGTCACTTCATCGAAAGGAC
 AGTAGAAAAGGAAGATGGCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCTATCGTTCAAAGAATGCCTCTAC
 CGACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAAGACGTTCCAACCACGTCTTCA
 AAGCAAGTGGATTGATGTGATAACATGGTGGAGCACGACACTCTCGTCTACTCCAAGAATATCAAAGATACAGTCTC
 AGAAGACCAGAGGGCTATTGAGACTTTCAACAAAGGGTAATATCGGGAAACCTCCTCGGATTCCATTGCCCAGCTAT
 CTGTCACTTCATCGAAAGGACAGTAGAAAAGGAAGATGGCTTCTACAAATGCCATCATTGCGATAAAGGAAAGGCTA
 TCGTTCAAAGAATGCCTCTACCGACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAACATCGTGGAAAAAGAAGA
 CGTTCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGACGTAAGGGATGACGCACAATCCCACT
 ATCCTTCGCAAGACCCTTCTCTATATAAGGAAGTTCATTTTCATTTGGAGAGG

GOI: mGFP5/p19/ TCVAAMP_sg2R-mCherry2/wtTCV

TCTAGAGTCCGCAAAAATCACCAGTCTCTCTCTACAAATCTATCTCTCTATTTTTCTCCAGAATAATGTGTGAGT
 AGTTCCAGATAAGGGAATTAGGGTTCTTATAGGGTTTCGCTCATGTGTTGAGCATATAAGAAACCCTTAGTATGTA
 TTTGTATTTGTAAAATACTTCTATCAATAAAATTTCTAATTCCTAAAACCAAAATCCAGTGA

Yellow: The duplicated enhancer of the 35S promoter (327 nt)

Brown: The enhancer of the 35S promoter (327 nt)

Red: The Core35S promoter (89 nt)

Gray: The CaMV 35S terminator

Green: Genes of interest inserted downstream of the promoter and upstream of the terminator

Supplementary Figure S1: DNA sequence of the 35S promoter variants and 35S terminator. The 2X35S promoter sequence has two identical copies of 35S region and the core region totaling 746bp (yellow + brown + red), while the 1X35S promoter sequence is 416bp harboring one copy of 35S with the core region (brown + red), and the length of Core35S promoter is 89bp (red). The genes of interest were inserted in between the 35S promoter variants and terminator (green). The blue box is showing the P35S-GOI-T35S (35S promoter variants-gene of interest-35S terminator) and the red box is indicating the abbreviations of different color used in this figure.