

Supplementary information S1 (table) | **Synthetic promoters that have been designed for the regulation of transgene expression in plants**

Promoter	Pattern of Expression	Source(s)	Species Tested	Ref.
<i>Mod2A1T, Mod3A1T</i>	Constitutive	CaMV 35S	tobacco	1
<i>Amas'AocsPocs, (Aocs)3AmasPmas</i>	Constitutive	Mannopine synthase and octopine synthase promoters	tobacco	2
<i>Pcec, Pmec</i>	Constitutive	Transcription activation module (TAM) designed from a database of highly expressed plant genes	tobacco, tomato	3,4,5
<i>FuasFSep; FSuasFcp</i>	Constitutive	Figwort mosaic virus <i>F</i> and <i>FS</i> promoters	tobacco, <i>Arabidopsis</i>	6
<i>FUAS35SCP, MUAS35SCP</i>	Constitutive	CaMV 35S, Figwort mosaic virus and <i>Mirabilis</i> mosaic virus promoters	tobacco	7
<i>SynPro3, SynPro5</i>	Constitutive, stronger in leaf	Synthetic directly repeated elements, CaMV 35S	tobacco	8
<i>p(OCS)n-OCS</i>	Constitutive	Octopine synthase promoter	tobacco	9
<i>Mac</i>	Constitutive, wound-inducible	CaMV 35S, Ti plasmid mannopine synthetase promoter	tobacco, tomato	10
<i>VR-ACSI</i>	Constitutive	<i>Vigna</i> aminocyclopropane-1-carboxylate synthase gene promoter	<i>Arabidopsis</i> , tobacco, mung bean	11
<i>proA, proA1, proB</i>	Bidirectional, constitutive	African cassava mosaic virus (ACMV) DNA A and B promoters	tobacco, cassava	12
<i>pd35GR, pd35ER, pdCGR, pq35GR</i>	Bidirectional, constitutive	CaMV 35S or CsVMV	grape, tobacco	13
<i>pBDGG</i>	Bidirectional, constitutive	CaMV 35S	tobacco	14
<i>P1301A; P1301B</i>	Bidirectional salicylic acid-, salinity- and IAA-inducible	Transcription activation module (TAM) designed from a database of highly expressed plant genes	tobacco	15
<i>pGLbd1-6</i>	Bidirectional, constitutive or wounding-, JA-, and leaf senescence-inducible	CaMV 35S, <i>PCISV</i> , or <i>OPRI</i> promoters	<i>Arabidopsis</i>	16
<i>4×GT1, 4×GATA, 4×G, 2×Z</i>	Light-inducible	<i>Arabidopsis</i> light-regulated photosynthetic genes ( <i>cab</i> , <i>rbcS</i> ) promoters	<i>Arabidopsis</i>	17
<i>Triple-Op</i>	Tetracycline-inducible	CaMV 35S, <i>tet</i> operator	tobacco	18
<i>CGEcR, VGEcR</i>	Methoxyfenozide-inducible	European corn borer ecdysone receptor	maize	19
<i>TCS</i>	Cytokinin-inducible	B-type <i>Arabidopsis</i> response regulator (ARR)-binding motifs and minimal 35S	<i>Arabidopsis</i>	20
<i>DR5(8×)</i>	Auxin-inducible	Soybean <i>GH3</i> promoter	<i>Arabidopsis</i> , carrot	21
<i>pBI2×ABRE, pBI4×ABRE</i>	Salinity/abscisic acid-inducible	Wheat <i>Em</i> gene promoter	rice	22
<i>EKCM, EKCRM, ECCRM</i>	Stress (drought, salinity, cold)-inducible	<i>Arabidopsis</i> <i>erd1</i> , <i>kin1</i> , <i>cor15a</i> , and <i>rd29A</i> promoters	<i>Arabidopsis</i>	23
<i>4×W1, 4×W2, 4×D, 4×GCC, 4×S, 4×JERE, 4×GST, 4×DRE</i>	Pathogen- and wound-inducible	Parsley <i>PR1</i> , Tobacco chitinase, Parsley <i>ELI7</i> Periwinkle <i>Str</i> , Potato <i>GST1</i> and <i>Arabidopsis</i> <i>rd29A</i> gene promoters	<i>Arabidopsis</i>	24

<i>pCL; pLC</i>	Tuber-specific and cold-inducible	<i>Arabidopsis cor15a</i> promoter and potato class I patatin promoter	potato	25
<i>EFCFS-HS-1, EFCFS-HS-2, EFCFSHS-3</i>	Vascular tissue-specific and stress (SA, JA)-inducible	Figwort mosaic virus <i>F20</i> and <i>FS3</i> promoters	tobacco	26
<i>4H1-46</i>	Seed-specific and desiccation-, salinity- and abscisic acid-inducible	Tobacco <i>hex-1</i> promoter	tobacco	27
<i>A27znGlb1</i>	Endosperm- and embryo-specific	Maize <i>27zn</i> and <i>Glb1</i> promoters	maize	28

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