

# A Golden Braid-compatible virus-based vector system for transient expression of heterologous proteins in plant

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**Table S1. List of primer used in this study**

Set	Primer	Sequence (5'-3') <sup>a</sup>	PCR conditions
1	GBX0	gccccgtctcgctcg <u>gggg</u> agctcgcatgcctgcaggta	denaturation 98°C 30s, 30 cycles (denaturation 98°C 10s, primer annealing 60°C
	GBX2	gccccgtct <u>cata</u> cttgggtcaatggcaacat	30s, synthesis 72°C 35s), extension 72°C 10min
2	GBX3	gccccgtct <u>cgagat</u> gttagccagggtacccaaggaa	denaturation 98°C 30s, 30 cycles (denaturation 98°C 10s, primer annealing 59°C
	GBX4	gccccgtct <u>cgaaac</u> atttctgtgtatggcatgtat	30s, synthesis 72°C 1 min), extension 72°C 10min
3	GBX5	gccccgtct <u>cggttt</u> ccgggtggaaaaagagga	denaturation 98°C 30s, 28 cycles (denaturation 98°C 10s, primer annealing 60°C
	GBX6	caggaggagg <u>ttt</u> catctttgttt	30s, synthesis 72°C 1 min), extension 72°C 10min
4	GBX7	caaaagat <u>guauacc</u> cctctgtggc	denaturation 98°C 30s, 25 cycles (denaturation 98°C 10s, primer annealing 60°C
	GBX8	gccccgtct <u>cggttt</u> cacagtttatgaagactctttg	25s, synthesis 72°C 20s), extension 72°C 10min
	GBX9	gccccgtct <u>cgaaac</u> acgccagatgacatgtctg	

5	GBX10	gtcgaggatcatcctgcataa	denaturation 98°C 30s, 25 cycles (denaturation 98°C 10s, primer annealing 60°C 25s, synthesis 72°C 20s), extension 72°C 10min
	GBX11	ttatgcaggagatgactccgcac	denaturation 98°C 30s, 30 cycles (denaturation 98°C 10s, primer annealing 60°C 30s, synthesis 72°C 35s), extension 72°C 10min
6	GBX13	<u>gccccgtctctagtc</u> tgaaatcgaaaggccacagccag	
	GBX14	<u>gccccgtctcagact</u> aactcaccggagaaggca	denaturation 98°C 30s, 30 cycles (denaturation 98°C 10s, primer annealing 60°C 25s, synthesis 72°C 20s), extension 72°C 10min
7	GBX15	ttttgtgccatctgttaagctcc	
	GBX16	agcttacagagatggcaccaaagc	denaturation 98°C 30s, 30 cycles (denaturation 98°C 10s, primer annealing 60°C 25s, synthesis 72°C 20s), extension 72°C 10min
8	GBX17-2	<u>gccccgtctcgctcgatt</u> cgtatgcgttagctggfctga	
	GBX18	<u>gccccgtctcgctcggtt</u> cgatgaacggtaagttt	denaturation 98°C 30s, 30 cycles (denaturation 98°C 10s, primer annealing 60°C 30s, synthesis 72°C 40s), extension 72°C 10min
9	GBX19	<u>gccccgtctcgctcgagcgccc</u> gatctagtaacatagatga	
	di-12	cattatcgatatgagtaaaggagaagaacctt	denaturation 98°C 30s, 35 cycles (denaturation 98°C 10s, primer annealing 57°C 30s, synthesis 72°C 25s), extension 72°C 10min
10	di-13	cctcctgaaatctattccttttaac	
	di-14	gttaaaaggaatagattcaaggagg	denaturation 98°C 30s, 35 cycles (denaturation 98°C 10s, primer annealing 56°C 25s, synthesis 72°C 25s), extension 72°C 10min
11	di-15	cattgtcgaccccggtcaattttacggcccg	
	GBGFP-F	<u>gccccgtctcgctcgaaat</u> gagtaaaggagaagaacttt	denaturation 98°C 30s, 30 cycles (denaturation 98°C 15s, primer annealing 60°C 25s, synthesis 72°C 25s), extension 72°C 10min
	GBGFP-R	<u>gccccgtctcgctcgaa</u> gctcaattttacggcccgac	
	JET-F	cgactcactatagggagagcg	denaturation 98°C 30s, 30 cycles (denaturation 98°C 15s, primer annealing 55°C 25s, synthesis 72°C 25s, extension 72°C 10min
13	GBGFP-Mr	ggaccatgtatctcttttc	
	GBGFP-Mf	gaaaagagagatcacatggcc	denaturation 98°C 30s, 30 cycles (denaturation 98°C 15s, primer annealing 55°C 25s, synthesis 72°C 25s, extension 72°C 10min
	JET-R	aagaacatcgatttccatggcag	
15	di-4	cgacctcgagtgacagctg	RT

16	di-10	ccgggatagt <u>caggcctgaagctgtggca</u>	RT with GBX16: denaturation 95°C 3 min, 40 cycles (denaturation 95°C 30s, primer annealing 59°C 30s, synthesis 72°C 1 min 30s), extension 72°C 10min
17	Gb-NbPDS-F	gcgc <u>ccgtctcgctgaatgcccgcacttaacttcataaac</u>	denaturation 98°C 30s, 30 cycles (denaturation 98°C 15s, primer annealing 60°C 25s, synthesis 72°C 25s), extension 72°C 10min

*"Restriction site *BsmBI* in bold; mutated restriction sites in upper-case and italics; restriction sites used for cloning in upper-case; four-nucleotide sticky ends underlined"*