

Table S1 Primers used for amplification of the *NPTII* and *EGFP* transgenes in RT-PCR, qRT-PCRs, and bisulfite sequencing

Gene name (GenBank acc. no)	Primer name	Primers, 5'-3'
Primers for cDNA check-up on DNA contamination, 5'-3'		
AtGAPDH (NM_111283)	AtGapdh-s AtGapdh-a	CTG GAA TGT CTT TCC GTG TC ATT CGT TGT CGT ACC ATG AC
Primers for PCR and real-time PCR, 5'-3'		
EGFP (U55762, AY818363)	R1s R1a R2s R2a	CAAGCATTCTACTTCTATTG CTCGCCCTTGCTCACCAT TGCTGCTGCCCGACAACCACTAC CTTGTACAGCTCGTCCATGCC
<i>nptII</i> (AY818371)	R3s R3a R4s R4a	TTGCTGAAGAGCTTGGCGGCGAAT TCAGAAGAAGCTCGTCAAGAAGG CACGACGGGCGTTCCTTGCGC GATACTTTCTCGGCAGGAGCAA
AtGAPDH (NM_111283)	AtGapdh-real-s AtGapdh-real-a	TTG GTG ACA ACA GGT CAA GCA AAA CTT GTC GCT CAA TGC AAT
AtUBQ (NM_001084884)	AtUBQ-realS AtUBQ-realA	GGCCTTGTATAATCCCTGATGAATAAG AAAGAGATAACAGGAACGGAAACATAGT
Specific primers for dsRNA design, 5'-3'		
EGFP (U55762, AY818363)	D1s D1a	TAATACGACTCACTATAGGGAGAATGGTGAGCAAGGGC GAGGAG TAATACGACTCACTATAGGGAGATTACTTGTACAGCTCGT CCATG
<i>nptII</i> (AY818371)	D2s D2a	TAATACGACTCACTATAGGGAGAATGTGGATTGAACAAG ATGGATTG TAATACGACTCACTATAGGGAGATCCACCATGATATTCG GCAAGCAG
Specific primers for pET28a-EGFP design, 5'-3'		
EGFP (U55762, AY818363)		CTA CGG ATC CAT GGT GAG CAA GGG CGA GGA GCA <u>TAA GCT TTT</u> ACT TGT ACA GCT CGT CCA
Primers for bisulfite DNA sequencing, 5'-3'		
EGFP (U55762, AY818363)	M1s M1a	CAC CAT CTT CTT CAA RRA C GTT GGG GTY TTT GYT YAG
<i>nptII</i> (AY818371)	M2s M2a	TTC TTT TTR TCA ARA CCR ACC TGA TGC TYT TYG TYT AGA T
Primers for stem-loop RT-PCR, 5'-3'		
EGFP-siRNA (Pr008640320; Pr120179)	stem-loop-RT1	GTTGGCTCTGGTGCAGGGTCCGAGGTATTCGCACCAGAG CCAACAAGTTC
	stem-F1	GCGGCGGGAACGGCATCAAGGT
	universal-R1	GTGCAGGGTCCGAGGT
Primers for detection of the readthrough transcript, 5'-3'		
EGFP (U55762, AY818363)	R2s	TGCTGCTGCCCGACAACCACTAC
<i>nptII</i> (AY818371)	R4a	GATACTTTCTCGGCAGGAGCAA

Fig. S1 DNA sequencing of the amplification product including coding sequences of both the *EGFP* and *NPTII* transgenes and their regulatory elements. Highlighted in orange and green are the *EGFP* and *NPTII* coding sequences, respectively; highlighted in brown and blue are the sequences of nopaline synthase terminator and the double CaMV 35S promoter. The positions of primers are underlined.

TGCTGCTGCCCGACAACCACTACCTGAGCACCCAGTCCGCCCTGAGCAAAGACCCCAACGAGAAGCGGATCACATGGTC
CTGCTGGAGTTCGTGACCGCCCGGGATCACTCTCGGCATGGACGAGCTGTACAAGTCCGGACTCAGATCTCGAGCTCAA
GCTTCGAATTCTGCAGTCGACGGTACCGCGGGCCCGGGATCCACCTGATCTAGATCCCGATCGTTCAAACATTGGCAATA
AAGTTTCTTAAGATTGAATCCTGTTGCCGGTCTTGCGATGATTATCATATAATTTCTGTTGAATTACGTTAAGCATGTAATAA
TTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTATGATTAGAGTCCCGCAATTATACATTTAATACGCGATAGA
AAACAAAATATAGCGCGCAAACCTAGGATAAATTATCGCGCGCGGTGTCATCTATGTTACTAGATCGGGCGGCCGACCCA
TAATACCCATAATAGCTGTTTGCCATCGCTACCTTAGGACCGTTATAGTTAACCAGGTCAACATGTGGAGCAGCACACACT
GTCTACTCCAAAAATATCAAAGATACAGTCTCAGAAGACCAAAGGGCAATTGAGACTTTTCAACAAAGGGTAATATCCGG
AAACCTCCTCGGATTCCATTGCCAGCTATCTGTCACTTTATTGTGAAGATAGTGGAAAAGGAAGGTGGCTCCTACAAATG
CCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAGTGGTCCCAAAGATGGACCCCCACCCACGA
GGAGCATCGTGGAAAAGAAGACGTTCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATAACATGGTGGAGCAGCAG
ACACTTGTCTACTCCAAAAATATCAAAGATACAGTCTCAGAAGACCAAAGGGCAATTGAGACTTTTCAACAAAGGGTAAT
ATCCGGAAACCTCCTCGGATTCCATTGCCAGCTATCTGTCACTTTATTGTGAAGATAGTGGAAAAGGAAGGTGGCTCCTA
CAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCGACAGTGGTCCCAAAGATGGACCCCCAC
CCACGAGGAGCATCGTGGAAAAGAAGACGTTCCAACCACGTCTTCAAAGCAAGTGGATTGATGTGATATCTCCACTGAC
GTAAGGGATGACGCACAATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTCAATTTGGAGAGGACG
TCGAGAGTTCTCAACACACAACATATACAAAACAAACGAATCTCAAGCAATCAAGCATTCTACTTCTATTGCAGCAATTTAAA
TCATTTCTTTAAAGCAAAGCAATTTCTGAAAATTTTACCATTACGAACGATAGCCATGGTCCGGACTCAGATCTCGA
GCTCAAGCTTCGAATTCGTGAGTCGACATGATTGAACAAGATGGATTGCACGCAGGTTCTCCGGCCGCTTGGGTGGAGAGG
CTATTCCGGCTATGACTGGGCACAACAGACAATCGGCTGCTCTGATGCCGCCGTGTTCCGGCTGTCAGCGCAGGGGCGCCCG
GTTCTTTTTGTCAAGACCGACCTGTCCGGTGCCTGAATGAACTGCAGGACGAGGCAGCGCGGCTATCGTGGCTGGCCACG
ACGGGCGTTCCTTGCAGCTGTGCTCGACGTTGCTACTGAAGCGGAAGGGACTGGCTGCTATTGGGCGAAGTCCCGGGG
CAGGATCTCCTGTCTCTCACCTTGCTCCTGCCGAGAAAGTATCCATCATGGCTGATGCAATGCGGCGGCTGCATACGCTTG
ATCCGGCTACCTGCCATTGACCACCAAGCGAAACATCGCATCGAGCGAGCAGTACTCGGATGGAAGCCGGTCTTGTG
GATCAGGATGATCTGGACGAAGAGCATCAGGGGCTCGCGCCAGCCGAAGTTCGCCAGGCTCAAGGCGCGCATGCCCGA
CGGCGATGATCTCGTCGTGACCCATGGCGATGCCTGCTTGCCGAATATCATGGTGGAAAATGGCCGCTTTTCTGGATTATC
GACTGTGGCCGGCTGGGTGTGGCGGACCGCTATCAGGACATAGCGTTGGCTACCCGTGATATTGCTGAAGAGCTTGGCGGC
GAATGGGCTGACCGCTTCCTCGTGCTTTACGGTATCGCCGCTCCCGATTTCGCAGCGCATCGCCTTCTATCGCCTTCTTGACG
AGTTCCTCTGA