Table S1

Oligonucleotide sequences used for the semi-quantitative RT-PCR in this study

Direction	Primer sequence (5′→3′)
Primers used for semi-quantitative RT-PCR	
For *NtACT9*	
Forward	CTATTCTCCGCTTTGGACTTGGCA
Reverse	AGGACCTCAGGACAACGGAAACG
For *RpBAS*	
Forward	CATATGGCTACTGAAGAGATGAAG
Reverse	TGAGTCTCAGATGGTCCCCTGAA
For *RiRZS1*	
Forward	AATAATCGGTTATGGAGTGGCTAGA
Reverse	TCCTTAGAGCAGCATCCAGGTCA
For *AtPAP1*	
Forward	AACTCTAGAATGGAGGGTTCGTCCAAAGG
Reverse	TTCCGAGCTCCTAATCAAATTTCACAGTCTCT
Primers used for quantitative RT-PCR	
For *NtEF1α*	
Forward	CCACACCTCCCACATTGCTGTCA
Reverse	CGCATGTCCCTCACAGCAAAAC
For *RpBAS*	
Forward	GGGTGCTAGGGTGTTGATT
Reverse	CAGCACCATCTCCAAGGATAG
For *RiRZS1*	
Forward	CACTGATGTGCCTCTCTCTTAC
Reverse	GCCAACAAGCTGACCTACT
Primers used for full-length *RiRZS1* and *RpBAS* cloning	
For *RpBAS*	
Forward	CATATGGCTACTGAAGAGATGAAG
Reverse	TCAAGAGATCACTGGCACAG
For *RiRZS1*	
Forward	GCGCGGCAGCCATATGGCGAGTGGTGGAGAAATG
Reverse	ACGGAGCTCGAATTCCTCGAGTCACTCTCTGGAAACAACCAC
Primers used for InFusion cloning	
For binary vector constructs	
Forward	TGCGGCCGCTGGATCGTCCCCAGATTAGCCTTTTC
Reverse	CCATGATTACGAATTAATTCCTTATCTTTAATCATATTC

Table S2. Volatile benzenoids and those glycosides in leaves of transgenic tobacco.

Compound	SR1 (WT)		Transgenic lines					
			RZS1-BAS -OX (#6)		*PAP1* -OX		*RZS1-BAS* (#6) x *PAP1* -OX	
	aglycone	glycosides	aglycone	glycosides	aglycone	glycosides	aglycone	glycosides
Benzyl alcohol	n.d.	1.42 ± 0.15	n.d.	1.62 ± 0.20	0.65 ± 0.04	1.55 ± 0.54	1.02 ± 0.05	2.94 ± 0.24
2-Phenylethanol	n.d.	0.32 ± 0.07	n.d.	0.46 ± 0.07	n.d.	0.11 ± 0.03	0.45 ± 0.03	0.41 ± 0.05
Raspberry ketone	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	2.24 ± 0.18
Rhododenol	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	2.29 ± 0.18

(μg/gFW)

Table S3. Volatile benzenoids and those glycosides in flowers of transgenic tobacco.

Compound	Transgenic lines							
	SR1 (WT)		***RZS1-BAS* -OX (#6)**		***PAP1* -OX**		***RZS1-BAS* (#6) x *PAP1* -OX**	
	aglycone	glycosides	aglycone	glycosides	aglycone	glycosides	aglycone	glycosides
Benzyl alcohol	1.15 ± 0.07	4.56 ± 2.95	0.98 ± 0.04	0.50 ± 0.03	0.38 ± 0.01	0.15 ± 0.02	0.23 ± 0.02	0.23 ± 0.09
4-Hydroxybenzyl alcohol	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	0.12 ± 0.03	0.76 ± 0.17
Raspberry ketone	n.d.	n.d.	n.d.	2.38 ± 0.35	n.d.	n.d.	0.45 ± 0.04	4.46 ± 0.21
Rhododenol	n.d.	n.d.	n.d.	0.60 ± 0.09	n.d.	n.d.	n.d.	1.78 ± 0.04

(μg/gFW)