

Supplementary Table 1: Student's T-Test P values to support claims of significance or insignificance used throughout the paper.

Biotype	Treatment 1	Herbicide	Biotype	Treatment 2	Herbicide	P =
Peldon	BSMV:asTaPDS	Unsprayed	Peldon	BSMV:asAmPDS	Unsprayed	0.0031
Rothamsted	BSMV:asTaPDS	Unsprayed	Rothamsted	BSMV:MCS	1.5x field rate fenoxaprop	0.00093
Peldon	BSMV:asTaPDS	Unsprayed	Peldon	BSMV:MCS	1.5x field rate fenoxaprop	0.68
Rothamsted	BSMV:asTaPDS	Unsprayed	Rothamsted	BSMV:asAmGSTF1	1.5x field rate fenoxaprop	0.0059
Peldon	BSMV:asTaPDS	Unsprayed	Peldon	BSMV:asAmGSTF1	1.5x field rate fenoxaprop	0.023
Peldon	BSMV:asTaPDS	1.5x field rate fenoxaprop	Peldon	BSMV:asAmGSTF1	1.5x field rate fenoxaprop	0.0021
Rothamsted	FoMV:bar	Unsprayed	Rothamsted	FoMV:MCS	0.5% glufosinate	0.0036
Peldon	FoMV:bar	Unsprayed	Peldon	FoMV:MCS	0.5% glufosinate	0.035
Rothamsted	FoMV:bar	Unsprayed	Rothamsted	FoMV:GFP	0.5% glufosinate	0.0020
Peldon	FoMV:bar	Unsprayed	Peldon	FoMV:GFP	0.5% glufosinate	0.043
Rothamsted	FoMV:bar	Unsprayed	Rothamsted	FoMV:bar	0.5% glufosinate	0.10
Peldon	FoMV:bar	Unsprayed	Peldon	FoMV:bar	0.5% glufosinate	0.090

Supplementary Table 2: Primers used throughout the paper.

Name	Sequence	Purpose	Publication
BSVM_2235_F	GATCAACTGCCAATCGTGAGTA	Sequencing primers for BSMV	Lee et al., 2015
BSVM_2615_R	CCAATTCAAGCATCGTTTTC	Sequencing primers for BSMV	Lee et al., 2015
cons5073 Forward	TCCTCACACAGCCATATCTAGC	For sequencing FoMV inserts	This publication
cons5558 Reverse	TAGCTGCTTGAACAAAGGCC	For sequencing FoMV inserts	This publication
AmPDS_VIGS1a_F	AAGGAAGTTTAAGGAAATCAAAACGGCTGTA	Antisense VIGS for PDS in Alomy	This publication
AmPDS_VIGS1a_R	AACCACCACCACCGTGCTGCTTGAAGGATGACGA	Antisense VIGS for PDS in Alomy	This publication
VIGSa_AmGSTF_205F	AAGGAAGTTTAAGCGACTCCCATAGAAGCAGA	Antisense VIGS for AmGSTF1 in Alomy	This publication
VIGSa_AmGSTF_6R	AACCACCACCACCGTGCCGGTGAAGGTGTTCCGG	Antisense VIGS for AmGSTF1 in Alomy	This publication
VIGSa_AmGSTF_520F	AAGGAAGTTTAAGGAAGTGGTTGAGGTCCGC	Antisense VIGS for AmGSTF1 in Alomy	This publication
VIGSa_AmGSTF_321R	AACCACCACCACCGTCACCTACAACCCGGCGCT	Antisense VIGS for AmGSTF1 in Alomy	This publication
FoMV_AmGSTF1_F	ACAGGCGGCCGCATGGCGCGGTGAAGGTGTT	To clone AmGSTF1 into FoMV	This publication
FoMV_AmGSTF1_R	CTGTTCTAGATTACGCCTTGGGCGGAACCA	To clone AmGSTF1 into FoMV	This publication
FoMV_Basta_F	ACAGGCGGCCGCATGAGCCAGAACGACGCC	for cloning BASTA into FoMV	This publication
FoMV_Basta_R	CTGTTCTAGATTAGATCTCGGTGACGGGCAG	for cloning BASTA into FoMV	This publication
qPCR_AmGSTF1_F	CCGAGTACGAGGTGGTGAAC	For qPCR of AmGSTF1	This publication
qPCR_AmGSTF1_R	CGTCCTGGAAAGCAGGGATT	For qPCR of AmGSTF1	This publication
AmPDS_qPCR_F	CAGACATGTCAGTAGCGTGC	For qPCR of AmPDS	This publication
AmPDS_qPCR_R	TTCAGTGTCACTCCGTCCAA	For qPCR of AmPDS	This publication
qPCR_UBQ_F	AGAAGACCTACACCAAGCCC	qPCR Standard Controls	This publication
qPCR_UBQ_R	AGTAGTGGCGGTCGAAGTG	qPCR Standard Controls	This publication
qPCR_UBQ_F	GCAAGAAGAAGACCTACACCAAG	qPCR Standard Controls	Petit et al. 2012
qPCR_UBQ_R	CCTTCTGGTTGTAGACGTAGGTG	qPCR Standard Controls	Petit et al. 2012

Lee, W.-S., Hammond-Kosack, K. & Kanyuka, K. 2012. Barley stripe mosaic virus-mediated tools for investigating gene function in cereal plants and their pathogens: VIGS, HIGS and VOX. *Plant Physiology*, pp.112.203489.

Petit C, Pernin F, Heydel JM, Délye C, 2012. Validation of a set of reference genes to study response to herbicide stress in grasses. *BMC Res Notes*, 5, 18.