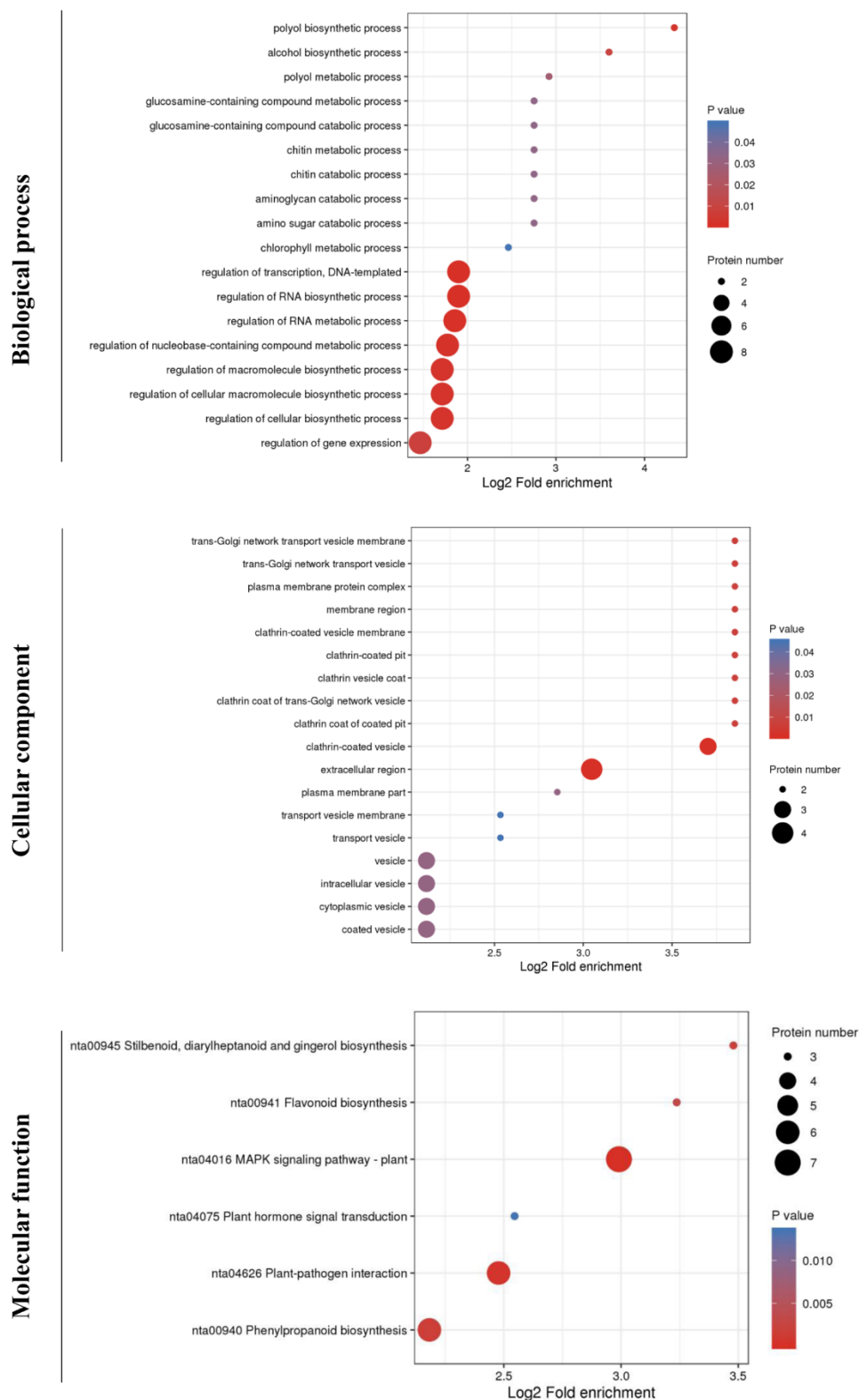


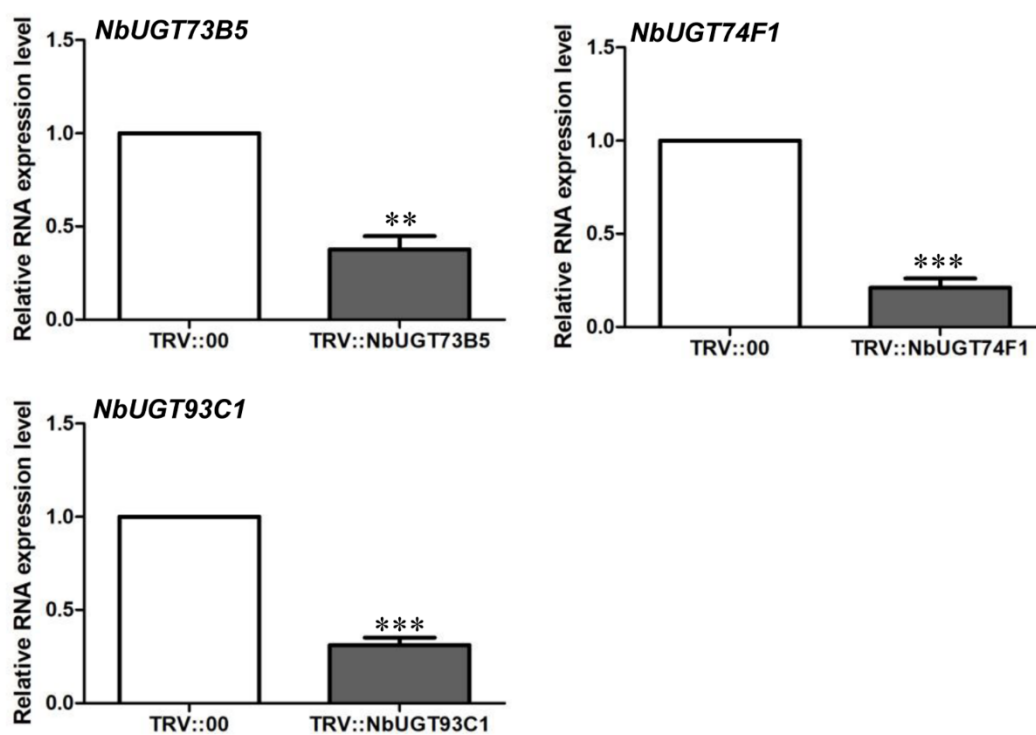
# Proteomics Identified UDP-Glycosyltransferase Family Members as Pro-Viral Factors for Turnip Mosaic Virus Infection in *Nicotiana benthamiana*

**Table S1.** Primers used in this study.

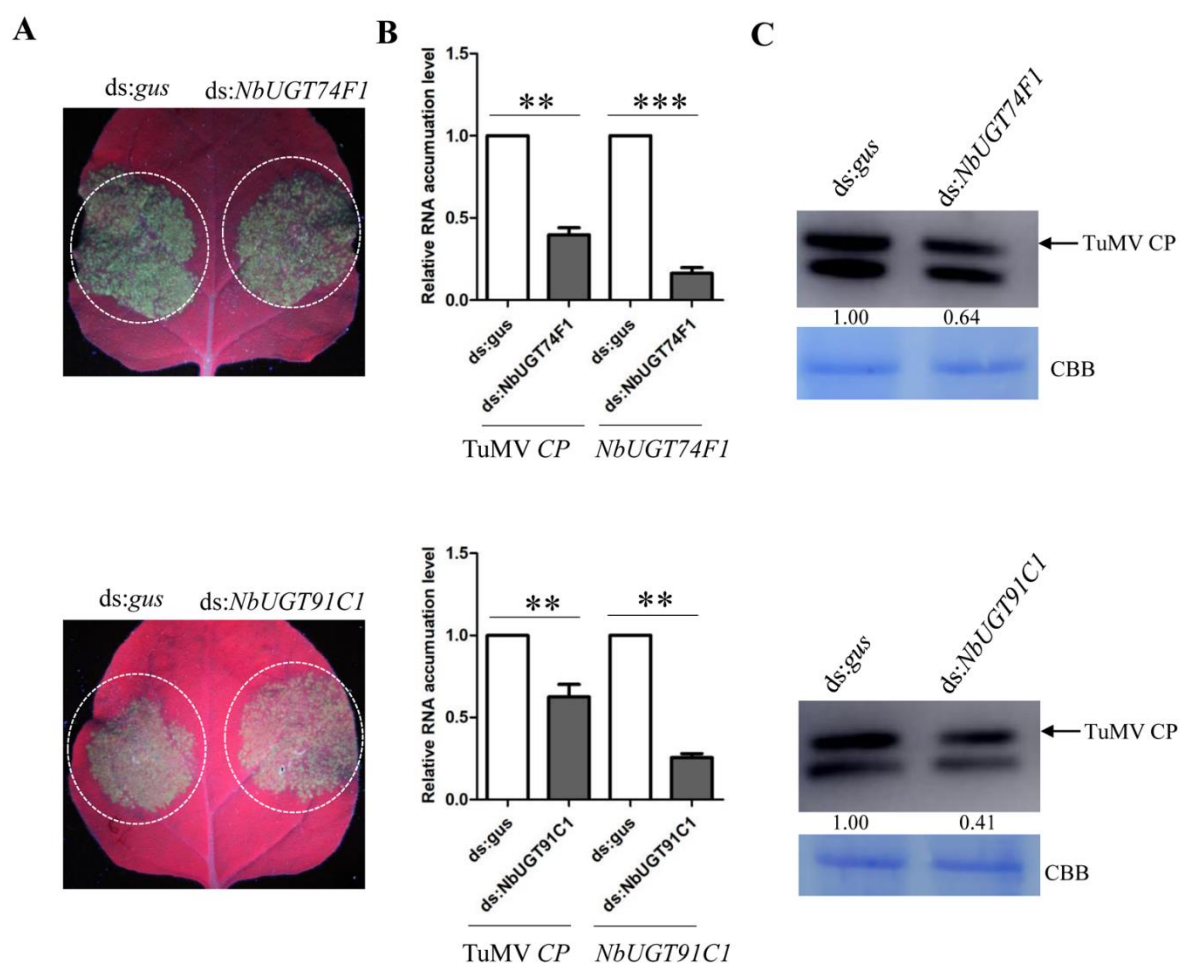
Primer Names	Sequences (5' to 3')
Ptrv2-NbUGT73B5-LicF	gAggAgAagAgCCgTcgCACACAATAAAGATGTCAAGAC
Ptrv2-NbUGT73B5-LicR	CgACgACAAGACCgTCACCCCTTGAATTGAGCCAATCTAAAC
qNbUGT73B5-F	CTCGGCATGGTGTGAAGGCA
qNbUGT73B5-R	TTGCAAGGGAACCTCGGTCGT
Ptrv2-UGT74F1-LicF	gAggAgAagAgCCgTcgATGGACTTGTGAATAAC
Ptrv2-UGT74F1-LicR	CgACgACAAGACCgTCACCCCTTGATAAGGTCCTCTAGGG
qNbUGT74F1-F	CACCTCCGGTGAGGATTCCG
qNbUGT74F1-R	GCGTCTACTACCTCAGCCTCCA
NbUGT74F1-licF	CgACgACAAGACCgTCACCATGGACTTGTGAATAAC
NbUGT74F1-licR	gAggAgAagAgCCgTcgTTTAGTACATTTTGATAC
Ptrv2-UGT91C1-Lic-F	gAggAgAagAgCCgTcgATGGATACACAAGTAATAG
Ptrv2-UGT91C1-Lic-R	CgACgACAAGACCgTCACCTCTAAGGGCGTGATTGAGATG
qNbUGT91C1-F	TGCTAGGTTGATGGCAGAAC
qNbUGT91C1-R	CGTCTCTTCAGCCCTTACAG
NbUGT91C1-Lic-F	CgACgACAAGACCgTCACCATGGATACACAAGTAATAGAATG
NbUGT91C1-Lic-R	gAggAgAagAgCCgTcgTTTACACTTATTACTAGTCTTAC
Ptrv2NbUFGT3-lic-F	gAggAgAagAgCCgTcgCTGCCTTCATTTGAGTCCCT
Ptrv2NbUFGT3-lic-R	CgACgACAAGACCgTCACCTTCGGCGAAGGTGTTGACCAT
qNbUFGT3-F	AGCTGGCCACCTCATCTCCA
qNbUFGT3-R	ACGAACTGTAAGCGGGCTGT
qNbActin2-F	GGGATGTGAAGGAGAAGTTGGC
qNbActin2-R	ATCAGCAATGCCCGGGAACA
dsUGT74F1-F1	ggcgcgccccatgcgggatcAGCTCTTCCTTATCCAAGCCA
dsUGT74F1-R1	catttgagaggacacgcggTGCGAGCCGATTTTCTTGAA
dsUGT74F1-F2	caatttgaggtatttgctAGCTCTTCCTTATCCAAGCCA
dsUGT74F1-R2	ggtcttaattaactctctagTGCGAGCCGATTTTCTTGAA
dsUGT91C1-F1	ggcgcgccccatgcgggatcACTGATGTTTCCATGGTTAGCA
dsUGT91C1-R1	catttgagaggacacgcggGTGATTGAGATGGGGTGGGA
dsUGT91C1-F2	caatttgaggtatttgctACTGATGTTTCCATGGTTAGCA
dsUGT91C1-R2	ggtcttaattaactctctagGTGATTGAGATGGGGTGGGA



**Figure S1.** KOG functional classification of differentially accumulated proteins grouped into three major categories—biological process, cellular component and molecular function.



**Figure S2.** Validation of the TRV-based gene silencing efficiency by RT-qPCR. \*\* and \*\*\* represent statistically significant differences by the Student t-test between groups at  $p < 0.01$  and  $p < 0.001$ , respectively.



**Figure S3.** Effect of transient silencing of NbUGTs on TuMV infection. (A) GFP fluorescence in *N. benthamiana* plants inoculated with TuMV-GFP together with ds:GUS (control), ds:NbUGT74F1, or ds:NbUGT91C1. (B) RT-qPCR analysis of the gene silencing efficiency and TuMV RNA level at 3 dpai. (C) Western blotting results of TuMV CP accumulation in ds:GUS (control)-, ds:NbUGT74F1-, and ds:NbUGT91C1-treated regions at 3dpai. \*\* represent statistically significant differences by the Student *t*-test between groups at  $p < 0.01$ .