Table S1. Gene/locus IDs and protein sequence identifiers of SIZ/PIAS-type SUMO E3 ligases from tomato and representative plant species used for phylogenetic analysis.

Species	Gene name	Gene/Locus ID	Protein-ID (identifier)
Arabidopsis thaliana	*AtSIZ1*	AT5G60410	NP_001032108.1
Solanum lycopersicum	*SlSIZ1*	Solyc06g010000	Solyc06g010000.3.1
Solanum lycopersicum	*SlSIZ2*	Solyc06g010100	Solyc06g010100.2.1
Solanum lycopersicum	*SlSIZ3*	Solyc08g008130	Solyc08g008130.4.1
Solanum lycopersicum	*SlSIZ4*	Solyc11g069160	Solyc11g069160.3.1
Oryza sativa	*OsSIZ1*	Os05g03430	NP_001407000.1
Oryza sativa	*OsSIZ2*	Os03g50980	NP_001405524.1
Cicer arietinum	*CaSIZ1*	LOC101504522	XP_004505965.1
Juglans regia	*JrSIZ1*	LOC108990084	XP_018819477.1
Malus domestica	*MdSIZ1*	LOC103447861	XP_008225245.1
Glycine max	*GmSIZ1*	GLYMA_11G154005v4	XP_008385287.2
Glycine max	*GmSIZ2*	GLYMA_13G328100v4	NP_001340428.2
Cucumis sativus	*CsSIZ1*	LOC101214657	XP_006594992.1
Cucumis melo	*CmSIZ1*	LOC103501758	XP_004147267.1
Vitis vinifera	*VvSIZ1*	LOC100258698	XP_008463667.1
Brassica napus	*BnSIZ1*	LOC106401501	XP_010651133.1
Zea mays	*ZmSIZ1a*	ZEAMMB73_Zm00001d010974	XP_048623280.1
Zea mays	*ZmSIZ1b*	ZEAMMB73_Zm00001d035487	XP_008656531.1
Zea mays	*ZmSIZ1c*	ZEAMMB73_Zm00001d044602	NP_001348377.1
Arachis hypogaea	*AhSIZ1*	LOC112786436	NP_001348379.1