

## Appendix A Selection of traditional reference genes for use in this study

Gene symbol	Locus	Description	Used as reference gene in previous studies	Selected or not (yes or no) in this study and reason if not selected
ubi3	Solyc01g068045	Ubiquitin	Leaf and root infiltrated with viruses and a viroid (Mascia et al., 2010)	No, expression unstable (Müller et al. 2015)
LOC101244805	Solyc01g079540	ADP-ribosylation factor-like protein 3	Seed (Dekkers et al., 2012)	No, sample tissue
LOC101243930	Solyc01g088480	Adenylate kinase	Leaf and root infiltrated with viruses and a viroid (Mascia et al., 2010)	Yes
LOC101255143	Solyc01g104170	Ankyrin repeat domain-containing protein 2	Fruit development; leaf infiltrated with different immunity inducers and bacterial strains (Cheng et al., 2017; Pombo et al., 2017)	No, seldom used as reference gene in the literature
CyP	Solyc01g111170	Cyclophilin protein	Root infiltrated with viruses and a viroid (Mascia et al., 2010)	Yes
LOC101260701	Solyc03g061600	Cell division cycle protein 27/anaphase promoting complex subunit 3	Seed (Dekkers et al., 2012)	No, sample tissue
ACT	Solyc03g078400	Actin	Leaf and root infiltrated with viruses and a viroid (Mascia et al., 2010)	No, expression unstable (Müller et al. 2015)
LOC101256369	Solyc03g115810	Vacuolar fusion protein mon1	During tomato development process (Expositorodriguez et al., 2008)	No, expression unstable (Wieczorek et al. 2013)
LOC101266713	Solyc04g009030	Glyceraldehyde-3-phosphate dehydrogenase	Leaf during light stress but poorly ranked during N and cold stress (Løvdal and Lillo, 2009)	Yes
LOC10125286	Solyc04g009770	DNAJ chaperone	Fruit development (Cheng et al., 2017)	No, sample tissue
actin	Solyc04g011500	Actin 4	Leaf subjected to nitrogen, cold, and light stress (Løvdal and Lillo, 2009)	No, expression unstable (Müller et al. 2015)
PP2Ac1	Solyc05g006590	Protein phosphatase 2A catalytic subunit 1	Leaf, seeds (Løvdal and Lillo, 2009; Dekkers et al., 2012)	No, expression unstable (Løvdal and Lillo 2009)
LOC101259540	Solyc05g009600	Phosphatase 2A regulatory A subunit	Seeds (Dekkers et al., 2012)	No, sample tissue
LOC544055	Solyc06g005060	Elongation factor 1-alpha	Leaf during N and cold stress but poorly ranked during light stress (Løvdal and Lillo, 2009)	No, expression unstable (Mascia et al. 2010)
LOC101249087	Solyc06g007510	Ubiquitin-conjugating enzyme E2	Fruit development (Cheng et al., 2017)	No, sample tissue
LOC543925	Solyc06g051420	Nucleic acid-binding protein	Mature leaves of seven-week-old tomato (Müller et al., 2015)	No, expression unstable (Pombo et al. 2017)
LOC101267244	Solyc06g069180	Phosphatase 2A regulatory A subunit	Seeds (Dekkers et al., 2012)	No, sample tissue
VIN3	Solyc07g018270	Vernalization insensitive 3	Leaf infiltrated with different immunity inducers and bacterial strains (Pombo et al., 2017)	No, expression unstable (Almutair and Sadler 2014)

LOC101263039	Solyc07g025390	Peptidyl-prolyl cis-trans isomerase cyclophilin-type	During tomato development process; tomato-ToCMoV pathosystem (Expositorodriguez et al., 2008; Lacerda et al., 2015; Gonzalez-Aguilera et al., 2016)	Yes
LOC101258282	Solyc07g064130	Ubiquitin	Leaf (Løvdal and Lillo, 2009)	No, expression unstable (Lacerda et al. 2015)
LOC101253805	Solyc07g066610	Phosphoglycerate kinase	Leaf (Løvdal and Lillo, 2009)	Yes
CAC	Solyc08g006960	AP-2 complex subunit mu	Seed; during tomato development process; leaf infiltrated with virus (Expositorodriguez et al., 2008; Dekkers et al., 2012; Wieczorek et al., 2013; Gonzalez-Aguilera et al., 2016)	No, sample issue or seldom used as reference gene in the literature
LOC101258986	Solyc09g009640	U6 snRNA-associated Sm-like protein LSm7	Leaf (Müller et al., 2015; Rezzonico et al., 2018)	No, expression unstable (Albuquerque et al. 2021)
RPL8	Solyc10g006580	Ribosomal protein L2	Leaf (Løvdal and Lillo, 2009)	No, expression unstable (Wieczorek et al. 2013)
LOC101255442	Solyc10g049850	TIP41-like protein	During tomato development process; tomato-ToCMoV pathosystem; seed (Expositorodriguez et al., 2008; Dekkers et al., 2012; Lacerda et al., 2015)	Yes
LRP	Solyc10g081190	Leucine-rich repeat receptor-like kinase	Fruit development (Cheng et al., 2017)	No, sample tissue
LOC101262163	Solyc11g005330	Actin	Seeds; leaf infiltrated with virus; Fruit development (Dekkers et al., 2012; Wieczorek et al., 2013; Cheng et al., 2017)	No, expression unstable (Müller et al. 2015)
LOC101264700	Solyc11g069700	Elongation factor 1-alpha	Leaf infiltrated with virus; tomato-ToCMoV pathosystem (Wieczorek et al., 2013; Lacerda et al., 2015)	No, expression unstable (Mascia et al. 2010)
LOC101250080	Solyc11g071260	Ubiquitin-conjugating enzyme E2	Seed (Dekkers et al., 2012)	No, sample tissue
LOC101249611	Solyc12g015870	Calcineurin B-like protein 02	Leaf (Rezzonico et al., 2018)	Yes

Sample issue: the tissues used were not leaf and/or root as in the study.

Almutairi, Z.M., Sadler, M.T., 2014. *Biol Plant*, 58, 419-426

Albuquerque, G.M.R., Fonseca, F.C.A., Boiteux, L.S., Borges, R.C.F., Miller, R.N.G., Lopes, C.A., Souza, E.B., Fonseca, M.E.N., 2021. *Sci. Rep.*, 11, 18719.