

Table S1. C2H2-ZFPs expressed in shoot apical meristem or leaves and their functions.

Gene	Species	Expression	Gene function	Reference(s)
REF6	<i>Arabidopsis thaliana</i>	SAM and root tips	Flowering development	Noh et al., 2004
ELF6	<i>Arabidopsis thaliana</i>	Cotyledons and leaves	Flowering development	Noh et al., 2004
ID1	<i>Zea maize</i>	Leaves	Flowering development	Kozaki et al., 2004
SUF4	<i>Arabidopsis thaliana</i>	Leaves and inflorescence	Flowering development	Kim et al., 2006
CZS	<i>Arabidopsis thaliana</i>	Undefined	Flowering development	Krichevsky et al., 2007
Ehd2	<i>Oryza sativa</i>	Leaves	Flowering development	Matsubara et al., 2008
RID1	<i>Oryza sativa</i>	Root, mature leaves and SAM	Flowering development	Wu et al., 2008
LATE	<i>Arabidopsis thaliana</i>	Leaf vasculature, SAM	Flowering development	Weingartner et al., 2011
Ghd10	<i>Oryza sativa</i>	Leaves and panicle structures	Flowering development	Shikai et al., 2013
Se14	<i>Oryza sativa</i>	Undefined	Flowering development	Yokoo et al., 2014
SID1	<i>Oryza sativa</i>	Leaves	Flowering development	Deng et al., 2017

Table S2. C2H2-ZFPs expressed in floral meristem and their functions.

Gene	Species	Expression	Gene function	Reference(s)
<i>SUP</i>	<i>Arabidopsis thaliana</i>	Stamen and carpel primordia	Define the boundary between the stamens and carpels	Sakai et al., 1995; Prunet et al., 2017 Xu et al., 2018
<i>NtSUP</i>	<i>Nicotiana tabacum</i>	Undefined	Cell proliferation, expansion, and differentiation	Bereterbide et al., 2001
<i>PhSUP1</i>	<i>Petunia</i>	Anthers, funiculi, and organ primordia	Anther, ovule development	Nakagawa et al., 2004
<i>SISUP</i>	<i>Silene latifolia</i>	Female flower	Female flower development	Kazama et al., 2009
<i>CsSUP</i>	<i>Cucumber</i>	Female flower buds and ovules	Stamen and fruit development	Zhao et al., 2014
<i>RBE</i>	<i>Arabidopsis thaliana</i>	Petal primordia	Petal development	Takeda et al., 2004
<i>KNU</i>	<i>Arabidopsis thaliana</i>	Carpel primordia, stamens, and ovules	Carpel development	Payne et al., 2004
<i>JAG</i>	<i>Arabidopsis thaliana</i>	Petal and organ primordia	Petal development	Schiessl et al., 2004;
<i>SE</i>	<i>Arabidopsis thaliana</i>	Meristems and organ primordia	Shoot development	Grigg et al., 2005
<i>RA1</i>	<i>Zea maize</i>	Second-order meristems	Inflorescence development	Vollbrecht et al., 2005
<i>NUB</i>	<i>Arabidopsis thaliana</i>	Leaf, stamen and carpel primordia	Stamen and carpel development	Dinneny et al., 2006
<i>Sl1</i>	<i>Oryza sativa</i>	Lodicules, stamens and carpel	Floral development	Xiao et al., 2009
<i>OsJAG</i>	<i>Oryza sativa</i>	Roots, leaves, stem, and all floral organs	Floral development	Duan et al., 2010
<i>SlKNU</i>	<i>Solanum lycopersicum</i>	Carpel primordia, stamens, ovules	Carpel development	Bollier et al., 2018

Table S3. C2H2-ZFPs expressed in pollen or pistil and their functions.

Gene	Species	Expression	Gene function	Reference(s)
<i>ZPT2-10</i>	<i>Petunia</i>	Pistil transmission tissue	Undefined	Kubo et al., 2000
<i>ZPT3-3</i>	<i>Petunia</i>	Pistil transmission tissue	Undefined	Kubo et al., 2000
<i>TAZ1</i>	<i>Petunia</i>	Pollen and tapetum	Degeneration of tapetum	Kapoor et al., 2002
<i>MEZ1</i>	<i>Petunia</i>	Pollen	Meiosis	Kapoor and Takatsuji, 2006
<i>NTT</i>	<i>Arabidopsis thaliana</i>	Carpel and replum	Transmitting-tract and replum development	Crawford et al., 2007
<i>BcMF20</i>	<i>Brassica campestris</i>	Pollen and tapetum	Pollen development	Han et al., 2011
<i>DAZ1</i>	<i>Arabidopsis thaliana</i>	Germ cell nuclear and cytoplasm	Germ cell division	Borg et al., 2014
<i>DAZ2</i>	<i>Arabidopsis thaliana</i>	Germ cell nuclear	Germ cell division	Borg et al., 2014