

**Table 2.2.1** Genes involved in the *Arabidopsis* flower development

<b>Gene Group</b>	<b>Gene Subgroup</b>	<b>Function</b>	<b>Selected Members of the Subgroup</b>
Flowering Time Genes	Regulation by long-day period and light quality	Regulation of flowering by day period and light quality	<i>PHYA, PHYB, CRY2, GI, ELF3, CO</i>
	Regulation by vernalization	Induction of flowering by cold	<i>VRN2, VIN3</i>
	Autonomous regulation	Induction of flowering independent of environmental conditions	<i>FCA, FY, FLD, FVE, FPA</i>
	Regulation by hormones	Gibberellic acid-dependent regulation of flowering	<i>GAI, FPF1, AtMYB33, EBS, PFT1, ABI1, ABI2</i>
	Floral pathway integrators	Integration of outputs from various flowering time regulation pathways	<i>FLC, SOCI, FT, LFY</i>
Meristem Identity Genes	Shoot meristem identity genes	Specification of the inflorescence apical meristem as indeterminate and non-floral	<i>TFL1</i>
	Flower meristem identity genes	Specification of the meristem as floral	<i>LFY, AP1</i>
Floral Organ Identity Genes	A	Specification of sepals in whorl 1, repression of class C genes in whorls 1 and 2	<i>AP1, AP2</i>
	B	Together with A, specification of petals in whorl 2	<i>AP3, PI</i>
	C	Together with class B genes, specification of stamens in whorl 3, repression of A class genes in whorls 3 and 4 and specification of carpels in whorl 4; repression of meristem proliferation	<i>AG</i>
	D	Specification of ovules organ identity	<i>STK, SHP1, SHP2</i>
	E	Co-operation with ABC genes in specification of petals, stamens and carpels in whorls 2-4, development of sepals	<i>SEPI-4</i>