

1 **Table 1 |** Discrepancy in the classification of plant MATE gene family

Plant Species	CGS*	Subgroup	References
<i>Arabidopsis thaliana</i>	I – IV	/	Wang et al., 2016
<i>Arabidopsis thaliana</i>	I – V	/	Santos et al., 2017
<i>Brassica rapa</i>	1 – 4	/	Qiao et al., 2020
<i>Brassica juncea</i>	1 – 4	/	Qiao et al., 2020
<i>Brassica napus</i>	1 – 4	/	Qiao et al., 2020
<i>Brassica nigra</i>	1 – 4	/	Qiao et al., 2020
<i>Brassica oleracea</i>	1 – 4	/	Qiao et al., 2020
<i>Capsicum annuum</i>	I – V	/	Chen et al., 2020
<i>Cicer arietinum</i>	G1 – G4	/	Zhang et al., 2020
<i>Citrus sinensis</i>	I – V	/	Juliao et al., 2020
<i>Glycine max</i>	C1 – C4	C1-1, C1-2, C1-3, C2-1, C2-2, C3-1, C3-2, C4-1, C4-2, C4-3	Liu et al., 2016
<i>Gossypium arboreum</i>	MI – MIII	/	Lu et al., 2018
<i>Gossypium hirsutum</i>	C1 – C4	C1-1, C1-2, C1-3, C1-4, C1-5, C2, C3, C4	Xu et al., 2018
<i>Gossypium raimondii</i>	MI – MIII	/	Lu et al., 2018
<i>Linum usitatissimum</i>	I – IV	/	Ali et al., 2021
<i>Malus x domestica</i>	I – VI	/	Zhang et al., 2021
<i>Medicago sativa</i>	C I – C IV	C I-1, C I-2, C I-3, C II-1, C II-2, C III-1, C III-2, C III-3, C IV-1, C IV-2, C IV-3	Min et al., 2019
<i>Medicago truncatula</i>	I – IV	/	Wang et al., 2017
<i>Nicotiana tabacum</i>	I – IV	Ia, Ib, Ic, Id, Ie, IIa, IIb, IIc, III, IVa, IVb	Gani et al., 2021
<i>Oryza sativa</i>	1 – 4	/	Du et al., 2021
<i>Oryza sativa</i>	C1–C4	C1-1, C1-2, C2, C3-1, C3-2, C4-1, C4-2, C4-3, C4-4	Huang et al., 2019
<i>Oryza sativa</i>	I – IV	/	Wang et al., 2016
<i>Populus trichocarpa</i>	I – III	Ia, Ib, IIa, IIb, IIc, IIIa, IIIb, IIIc	Li et al., 2017
<i>Solanum lycopersicum</i>	I – V	/	Santos et al., 2017
<i>Solanum tuberosum</i>	I – V	/	Huang et al., 2021
<i>Solanum tuberosum</i>	I – VI	/	Li et al., 2019
<i>Solanum tuberosum</i>	I – V	/	Chen et al., 2020
<i>Vaccinium corymbosum</i>	I – V	/	Chen et al., 2015
<i>Zea mays</i>	I – VII	/	Zhu et al., 2016

2 *CGS denotes clade, class, group and/ or subfamily

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