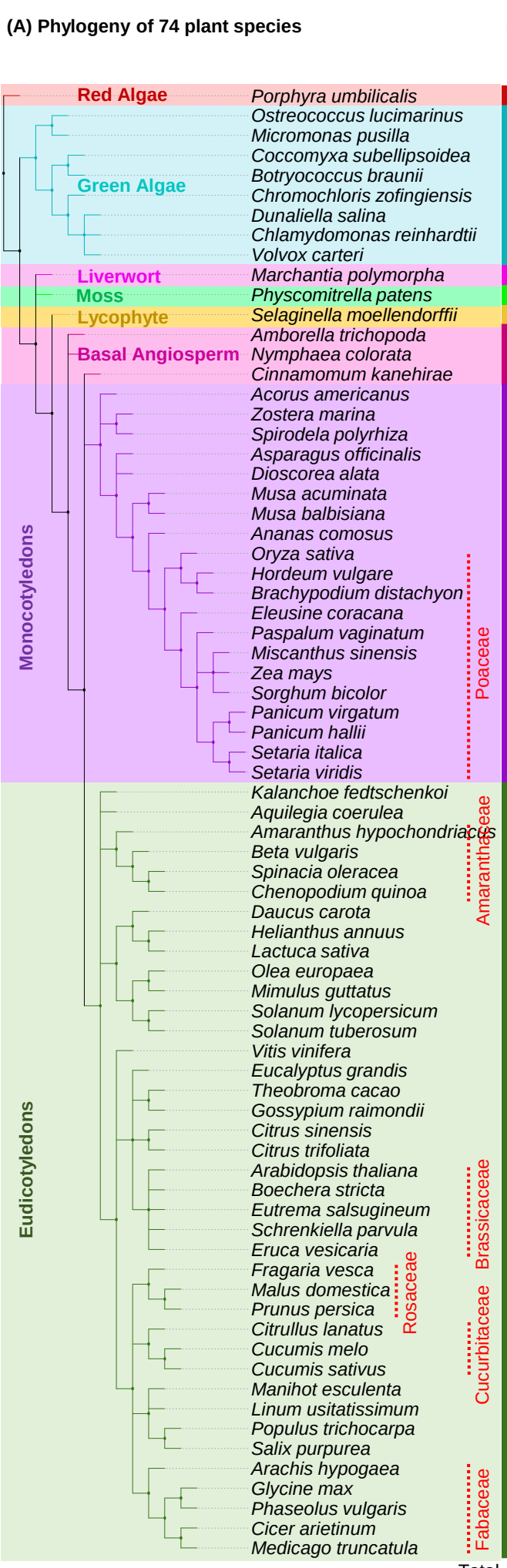

(B) Genes in various subgroups of the plant MATE family

	IA	IB	IIA	IIB	IIC	IID	IIE	IIIA	IIIB	IIIC	IIID	IVA	IVB	IVC	UnC	Total
Porphyra umbilicalis	/	/	/	/	/	/	/	/	/	/	/	/	/	/	4	4
Ostreococcus lucimarinus	/	/	/	/	/	/	/	/	/	/	/	/	/	/	12	12
Micromonas pusilla	/	/	/	/	/	/	/	/	/	/	/	/	/	/	11	11
Coccomyxa subellipsoidea	/	/	/	/	/	/	/	/	/	/	/	/	/	/	7	7
Botryococcus braunii	/	/	/	/	/	/	/	/	/	/	/	/	/	/	12	12
Chromochloris zofingiensis	/	/	/	/	/	/	/	/	/	/	/	/	/	/	17	17
Dunaliella salina	/	/	/	/	/	/	/	/	/	/	/	/	/	/	13	13
Chlamydomonas reinhardtii	/	/	/	/	/	/	/	/	/	/	/	/	/	/	16	16
Volvox carteri	/	/	/	/	/	/	/	/	/	/	/	/	/	/	9	9
Marchantia polymorpha	/	/	/	/	/	/	/	1	/	/	/	/	/	2	12	15
Physcomitrella patens	/	/	/	/	/	/	/	3	/	/	/	/	/	4	13	20
Selaginella moellendorffii	/	/	/	/	/	/	/	4	/	/	/	/	/	3	16	23
Amborella trichopoda	3	10	15	1	1	4	3	2	1	1	1	1	/	7	3	53
Nymphaea colorata	/	18	9	2	4	2	7	2	1	1	2	1	1	7	1	58
Cinnamomum kanehirae	1	4	8	2	1	6	3	2	1	1	2	1	1	9	/	42
Acorus americanus	2	5	11	1	1	4	3	1	1	1	3	1	2	7	/	43
Zostera marina	1	5	1	1	1	2	9	1	1	1	1	1	/	8	1	34
Spirodela polyrhiza	2	3	9	1	/	4	/	1	1	1	1	1	1	4	/	29
Asparagus officinalis	4	7	4	/	2	4	2	/	1	1	2	1	1	5	1	35
Dioscorea alata	1	9	8	/	1	2	1	1	1	1	3	1	1	10	2	42
Musa acuminata	2	4	7	2	4	1	6	1	1	1	3	1	1	19	/	53
Musa balbisiana	2	4	10	2	6	1	7	1	1	1	3	/	1	18	/	57
Ananas comosus	1	6	5	1	5	2	2	1	2	1	5	2	1	12	/	46
Oryza sativa	2	15	6	1	5	6	3	1	2	1	3	1	1	8	/	55
Hordeum vulgare	4	19	8	1	5	3	4	1	2	4	2	1	/	10	/	64
Brachypodium distachyon	3	15	7	1	3	3	2	1	2	2	2	1	/	7	1	50
Eleusine coracana	2	43	17	3	12	4	14	2	2	2	5	2	/	15	/	123
Paspalum vaginatum	3	9	11	1	5	1	5	1	2	1	1	1	/	9	/	50
Miscanthus sinensis	4	28	14	2	11	4	9	1	4	5	3	1	/	15	/	101
Zea mays	7	11	6	/	9	2	2	1	2	2	4	1	/	10	1	58
Sorghum bicolor	2	14	9	1	6	2	6	1	2	2	3	1	/	7	/	56
Panicum virgatum	10	27	15	1	9	4	10	2	3	2	5	2	/	16	/	106
Panicum hallii	5	15	7	1	7	2	8	1	2	4	3	1	/	7	/	63
Setaria italica	6	22	7	1	6	2	9	1	2	2	4	1	/	7	1	71
Setaria viridis	6	21	7	1	6	2	9	1	2	2	4	1	/	8	/	70
Kalanchoe fedtschenkoi	1	6	20	4	6	8	9	4	1	1	3	1	1	6	/	71
Aquilegia coerulea	5	7	17	1	8	3	6	2	1	1	2	1	1	6	1	62
Amaranthus hypochondriacus	3	9	8	1	1	1	7	1	/	1	2	1	1	8	1	45
Beta vulgaris	6	10	5	1	1	2	6	1	2	1	3	1	1	7	1	48
Spinacia oleracea	6	5	16	1	1	1	5	2	8	2	9	/	/	4	4	64
Chenopodium quinoa	9	14	20	2	2	2	10	5	2	2	4	3	2	13	3	93
Daucus carota	/	14	5	/	3	3	5	2	2	1	4	1	1	8	5	54
Helianthus annuus	2	17	4	/	8	9	5	2	2	1	7	2	4	10	/	73
Lactuca sativa	2	12	7	/	6	5	6	1	2	1	5	1	1	9	1	59
Olea europaea	3	8	14	1	5	7	4	1	1	/	4	1	1	18	1	69
Mimulus guttatus	7	13	10	/	5	7	4	2	1	1	4	1	1	8	/	64
Solanum lycopersicum	5	20	19	1	5	4	4	2	3	2	3	2	1	8	1	80
Solanum tuberosum	7	16	14	1	5	6	4	3	2	1	4	2	1	8	/	74
Vitis vinifera	3	17	9	2	7	9	3	2	1	1	4	1	1	8	/	68
Eucalyptus grandis	3	27	11	2	4	16	8	3	3	1	4	2	1	10	/	95
Theobroma cacao	6	14	7	3	4	6	3	2	2	1	3	1	1	8	/	61
Gossypium raimondii	9	11	6	2	3	7	4	3	1	3	4	1	2	16	/	72
Citrus sinensis	3	14	6	4	4	/	7	2	2	1	3	1	1	6	/	54
Citrus trifoliata	4	14	7	2	2	3	5	2	2	1	3	1	1	7	/	54
Arabidopsis thaliana	2	18	7	1	5	6	3	2	1	1	2	1	1	7	/	57
Boechera stricta	1	13	6	1	4	6	3	2	1	1	3	1	1	7	/	50
Eutrema salsugineum	1	12	6	1	7	5	4	2	1	1	2	1	1	7	/	51
Schrenkiella parvula	1	10	6	1	8	4	3	2	1	1	2	1	1	8	1	50
Eruca vesicaria	3	38	13	2	17	11	21	7	2	2	6	5	2	24	/	153
Fragaria vesca	4	11	13	5	3	/	5	2	1	1	3	1	1	9	/	59
Malus domestica	9	21	16	3	7	4	8	2	5	2	4	5	2	17	1	106
Prunus persica	6	13	9	3	5	2	5	2	3	1	4	1	1	6	/	61
Citrullus lanatus	2	8	4	/	5	/	4	2	1	1	3	1	1	7	/	39
Cucumis melo	2	10	4	/	5	/	5	2	1	1	3	1	1	7	/	42
Cucumis sativus	3	12	4	/	6	/	4	2	1	2	3	1	1	7	/	46
Manihot esculenta	2	8	13	2	5	6	3	3	1	1	7	1	2	14	/	68
Linum usitatissimum	2	26	20	2	7	4	8	5	5	2	7	1	1	9	/	99
Populus trichocarpa	4	16	6	3	9	6	4	2	3	1	4	2	1	8	/	69
Salix purpurea	2	13	6	3	7	7	5	4	5	1	4	2	1	10	/	70
Arachis hypogaea	4	34	19	3	6	5	8	2	4	4	15	1	4	8	/	117
Glycine max	4	29	15	2	4	10	4	2	2	2	9	7	4	21	1	116
Phaseolus vulgaris	2	12	6	3	2	6	3	2	1	1	6	1	2	12	/	59
Cicer arietinum	1	12	4	1	2	3	4	2	1	/	4	1	1	12	/	48
Medicago truncatula	6	17	8	4	3	6	4	5	1	1	5	1	1	9	1	72
Total	218	895	591	95	307	257	337	131	118	90	236	85	64	611	175	4210

FIGURE 1