

SUPPLEMENTARY DATA

TABLE S1. list of sampled taxa, their 2C and Cx genome sizes, life form, ephemeroid phenology presence and storage organ type.

| APG Family | Species | Genome size 2C [Mbp] | Ploidy level | Genome size Cx [Mbp] | CV genome size [%] | Used standard | Ratio | Life-form | G/N | Node number | Ephemeroid phenology | Storage organ | Sample origin |
|------------------|---|----------------------|--------------|----------------------|--------------------|-----------------------------|-------|-----------|-----|-------------|----------------------|---------------|-------------------------------------|
| Aristolochiaceae | <i>Aristolochia clematitis</i> | 757 | 2 | 379 | 0.34 | Ipomoea quamoclit | 0.612 | Hkf | N | 1 | | | 49°14'0.973"N, 16°34'11.917"E |
| Aristolochiaceae | <i>Aristolochia fimbriata</i> ⁺ | 880 | 2 | 440 | | | | Gf | G | 1 | no | tuber | |
| Aristolochiaceae | <i>Aristolochia rotunda</i> [*] | 582 | 2 | 291 | | | | Gf | G | 1 | no | tuber | |
| Ranunculaceae | <i>Ranunculus bulbosus</i> [*] | 10234 | 2 | 5117 | | | | Gf | G | 2 | no | tuber | |
| Ranunculaceae | <i>Ranunculus polyanthemos</i> | 11193 | 2 | 5596 | 0.73 | <i>Pisum sativum</i> | 1.427 | Hkf | N | 2 | | | Botanical garden Masaryk Univ. Brno |
| Ranunculaceae | <i>Ranunculus sardous</i> ⁺ | 6895 | 2 | 3448 | | | | Tf | N | 2 | | | |
| Ranunculaceae | <i>Anemone narcissiflora</i> [*] | 17551 | 2 | 8776 | | | | Gf | G | 3 | no | rhizome | |
| Ranunculaceae | <i>Hepatica nobilis</i> | 30348 | 2 | 15174 | 0.83 | <i>Vicia faba</i> | 1.304 | Hkf | N | 3 | | | 49°14'4.665"N, 16°40'27.691"E |
| Ranunculaceae | <i>Anemone apennina</i> [*] | 26454 | 2 | 13227 | | | | Gf | G | 4 | yes | rhizome | |
| Ranunculaceae | <i>Anemone blanda</i> | 27039 | 2 | 13520 | | <i>Haemanthus albiflos</i> | 0.415 | Gf | G | 4 | yes | rhizome | 37°10'23.862"N, 31°55'32.400"E |
| Ranunculaceae | <i>Anemone coronaria</i> [*] | 21874 | 2 | 10937 | | | | Gf | G | 4 | yes | rhizome | |
| Ranunculaceae | <i>Anemone hortensis</i> [*] | 23495 | 2 | 11748 | | | | Gf | G | 4 | yes | rhizome | |
| Ranunculaceae | <i>Anemone nemorosa</i> [*] | 37017 | 4 | 9254 | | | | Gf | G | 4 | yes | rhizome | |
| Ranunculaceae | <i>Anemone ranunculoides</i> [*] | 32473 | 4 | 8118 | | | | Gf | G | 4 | yes | rhizome | |
| Ranunculaceae | <i>Anemone sylvestris</i> | 15798 | 2 | 7899 | 1.42 | <i>Pisum sativum</i> | 2.015 | Hkf | N | 4 | | | 49°13'8.777"N, 16°30'40.05"E |
| Ranunculaceae | <i>Anemone virginiana</i> ⁺ | 17457 | 2 | 8729 | | | | Hkf | N | 4 | | | |
| Ranunculaceae | <i>Isopyrum thalictroides</i> [*] | 854 | 2 | 427 | | | | Gf | G | 5 | yes | rhizome | |
| Ranunculaceae | <i>Thalictrum simplex</i> ssp. <i>galioides</i> | 2167 | 4 | 542 | 1.02 | <i>Pisum sativum</i> | 0.276 | Hkf | N | 5 | | | Botanical garden Masaryk Univ. Brno |
| Berberidaceae | <i>Berberis vulgaris</i> | 2681 | 2 | 1341 | 0.23 | <i>Solanum lycopersicum</i> | 1.580 | Ff | N | 6 | | | 49°13'0.604"N, 16°40'12.846"E |
| Berberidaceae | <i>Epimedium alpinum</i> ⁺ | 8010 | 2 | 4005 | | | | Gf | G | 6 | no | rhizome | |
| Berberidaceae | <i>Jeffersonia diphylla</i> [*] | 3445 | 2 | 1722 | | | | Gf | G | 6 | yes | rhizome | |
| Berberidaceae | <i>Jeffersonia dubia</i> [*] | 2691 | 2 | 1346 | | | | Gf | G | 6 | yes | rhizome | |
| Berberidaceae | <i>Nandina domestica</i> ⁺ | 4303 | 2 | 2152 | | | | Ff | N | 6 | | | |
| Berberidaceae | <i>Podophyllum emodi</i> [*] | 28762 | 2 | 14381 | | | | Gf | G | 6 | yes | rhizome | |
| Papaveraceae | <i>Dicranostigma franchetianum</i> ⁺ | 1565 | 2 | 783 | | | | Hkf | N | 7 | | | |
| Papaveraceae | <i>Chelidonium majus</i> | 1967 | 2 | 984 | 0.72 | <i>Carex acutiformis</i> | 2.459 | Hkf | N | 7 | | | 49°12'38.500"N, 16°34'43.733"E |
| Papaveraceae | <i>Sanguinaria canadensis</i> | 1942 | 2 | 971 | 0.91 | <i>Bellis perennis</i> | 0.628 | Gf | G | 7 | yes | rhizome | www.lukon-glads.cz |
| Fumariaceae | <i>Corydalis cava</i> [*] | 1870 | 2 | 935 | | | | Gf | G | 8 | yes | tuber | |
| Fumariaceae | <i>Corydalis intermedia</i> [*] | 1395 | 2 | 697 | | | | Gf | G | 8 | yes | tuber | |

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|----------------|--|-------|---|------|------|----------------------|-------|-----|---|----|-----|-------------------------------------|
| Fumariaceae | <i>Corydalis lutea</i> | 1179 | 4 | 295 | 0.92 | Carex acutiformis | 1.474 | Hkf | N | 8 | | Botanical garden Masaryk Univ. Brno |
| Fumariaceae | <i>Corydalis pumila</i> * | 1173 | 2 | 587 | | | | Gf | G | 8 | yes | tuber |
| Fumariaceae | <i>Corydalis solida</i> * | 1191 | 2 | 595 | | | | Gf | G | 8 | yes | tuber |
| Vitaceae | <i>Parthenocissus himalayensis</i> | 3182 | 4 | 795 | 0.21 | Solanum lycopersicum | 1.875 | Gf | G | 9 | no | tuber |
| Vitaceae | <i>Parthenocissus tricuspidata</i> * | 1027 | 2 | 514 | | | | Ff | N | 9 | | Botanical garden Masaryk Univ. Brno |
| Oxalidaceae | <i>Oxalis acetosella</i> * | 5575 | 2 | 2788 | | | | Gf | G | 10 | no | rhizome |
| Oxalidaceae | <i>Oxalis corniculata</i> var. <i>repens</i> | 1918 | 6 | 320 | 0.21 | Solanum lycopersicum | 1.130 | Hkf | N | 10 | | 49°15'2.705"N, 16°34'24.511"E |
| Oxalidaceae | <i>Oxalis corymbosa</i> * | 719 | 2 | 359 | | | | Gf | G | 10 | no | bulb |
| Oxalidaceae | <i>Oxalis dillenii</i> * | 978 | 4 | 245 | | | | Tf | N | 10 | | |
| Oxalidaceae | <i>Oxalis linearis</i> * | 2249 | 2 | 1125 | | | | Gf | G | 10 | no | bulb |
| Oxalidaceae | <i>Oxalis megalorrhiza</i> * | 796 | 2 | 398 | | | | Gf | G | 10 | no | root |
| Oxalidaceae | <i>Oxalis pes-caprae</i> * | 1340 | 4 | 335 | | | | Gf | G | 10 | no | bulb |
| Oxalidaceae | <i>Oxalis spiralis</i> * | 1175 | 2 | 587 | | | | Gf | G | 10 | no | root |
| Oxalidaceae | <i>Oxalis vulcanicola</i> * | 867 | 2 | 434 | | | | Gf | G | 10 | no | root |
| Passifloraceae | <i>Passiflora edulis</i> * | 3115 | 2 | 1557 | | | | Hkf | N | 11 | | |
| Passifloraceae | <i>Passiflora quadrangularis</i> * | 4277 | 2 | 2139 | | | | Gf | G | 11 | no | root |
| Euphorbiaceae | <i>Mercurialis annua</i> | 2557 | 4 | 639 | 1.44 | Solanum lycopersicum | 1.507 | Tf | N | 12 | | 49°11'36.763"N, 16°33'25.906"E |
| Euphorbiaceae | <i>Mercurialis huetii</i> * | 1399 | 2 | 700 | | | | Tf | N | 12 | | |
| Euphorbiaceae | <i>Mercurialis perennis</i> * | 6298 | 8 | 787 | | | | Gf | G | 12 | no | rhizome |
| Euphorbiaceae | <i>Euphorbia cf. apios</i> | 2870 | 4 | 717 | 1.11 | Solanum lycopersicum | 1.691 | Gf | G | 13 | no | root |
| Euphorbiaceae | <i>Euphorbia helioscopia</i> | 1750 | 4 | 438 | 1.37 | Carex acutiformis | 2.188 | Tf | N | 13 | | 36°54'56.984"N, 30°3'31.444"E |
| Fabaceae | <i>Lathyrus annuus</i> * | 12538 | 2 | 6269 | | | | Tf | N | 14 | | 49°12'39.419"N, 16°34'46.703"E |
| Fabaceae | <i>Lathyrus heterophyllus</i> * | 17995 | 2 | 8998 | | | | Hkf | N | 14 | | |
| Fabaceae | <i>Lathyrus latifolius</i> | 15053 | 2 | 7526 | 1.54 | Pisum sativum | 1.920 | Hkf | N | 14 | | 49°13'15.118"N, 16°40'10.245"E |
| Fabaceae | <i>Lathyrus tuberosus</i> * | 12058 | 2 | 6029 | | | | Gf | G | 14 | no | tuber |
| Fabaceae | <i>Lathyrus aphaca</i> * | 9037 | 2 | 4519 | | | | Tf | N | 15 | | |
| Fabaceae | <i>Lathyrus laxiflorus</i> | 16419 | 2 | 8210 | 1.16 | Pisum sativum | 2.094 | Gf | G | 15 | no | root |
| Cucurbitaceae | <i>Bryonia alba</i> * | 5827 | 2 | 2913 | | | | Gf | G | 16 | no | tuber |
| Cucurbitaceae | <i>Bryonia dioica</i> * | 5522 | 2 | 2761 | | | | Gf | G | 16 | no | tuber |
| Cucurbitaceae | <i>Bryonia verrucosa</i> * | 4504 | 2 | 2252 | | | | Gf | G | 16 | no | tuber |
| Cucurbitaceae | <i>Ecballium elaterium</i> * | 2442 | 2 | 1221 | | | | Gf | G | 16 | no | tuber |
| Cucurbitaceae | <i>Echinocystis lobata</i> | 1319 | 4 | 330 | 0.51 | Solanum lycopersicum | 0.778 | Tf | N | 16 | | 49°12'44.587"N, 16°34'42.654"E |
| Cucurbitaceae | <i>Luffa cylindrica</i> * | 1663 | 2 | 832 | | | | Tf | N | 16 | | |
| Cucurbitaceae | <i>Trichosanthes anguina</i> * | 2152 | 2 | 1076 | | | | Tf | N | 16 | | |
| Begoniaceae | <i>Begonia dregei</i> * | 1291 | 2 | 646 | | | | Gf | G | 17 | | |

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|------------------|--|------|----|------|------|-----------------------------|-------|-----|----|-----|-------------------------------------|
| Begoniaceae | <i>Begonia grandis</i> * | 1086 | 2 | 543 | | | Gf | G | 17 | no | tuber |
| Begoniaceae | <i>Begonia luxurians</i> + | 626 | 2 | 313 | | | Hkf | N | 17 | | |
| Begoniaceae | <i>Begonia socotrana</i> + | 1001 | 2 | 501 | | | Gf | G | 17 | | |
| Geraniaceae | <i>Geranium columbinum</i> | 1398 | 2 | 699 | 1.56 | <i>Solanum lycopersicum</i> | 0.824 | Tf | N | 18 | 49°12'39.327"N, 16°34'46.639"E |
| Geraniaceae | <i>Geranium sanguineum</i> | 7480 | 8 | 935 | 1.05 | <i>Bellis perennis</i> | 2.421 | Hkf | N | 18 | 49°13'1.686"N, 16°40'11.906"E |
| Geraniaceae | <i>Geranium tuberosum</i> * | 2424 | 4 | 606 | | | Gf | G | 18 | no | tuber |
| Brassicaceae | <i>Cardamine bulbifera</i> * | 3685 | 12 | 307 | | | Gf | G | 19 | yes | rhizome |
| Brassicaceae | <i>Cardamine impatiens</i> | 356 | 2 | 178 | 1.47 | <i>Carex acutiformis</i> | 0.446 | Tf | N | 19 | 49°12'30.267"N, 16°34'38.077"E |
| Tropaeolaceae | <i>Tropaeolum majus</i> | 4615 | 4 | 1154 | 1.77 | <i>Pisum sativum</i> | 0.589 | Hkf | N | 20 | Botanical garden Masaryk Univ. Brno |
| Tropaeolaceae | <i>Tropaeolum tuberosum</i> | 2477 | 2 | 1239 | 1.79 | <i>Pisum sativum</i> | 0.316 | Gf | G | 20 | no |
| Balsaminaceae | <i>Impatiens glandulifera</i> + | 1858 | 2 | 929 | | | Tf | N | 21 | | |
| Balsaminaceae | <i>Impatiens omeiensis</i> * | 6378 | 6 | 1063 | | | Gf | G | 21 | no | tuber |
| Balsaminaceae | <i>Impatiens parviflora</i> | 3748 | 4 | 937 | 1.44 | <i>Pisum sativum</i> | 0.478 | Tf | N | 21 | 49°15'3.09"N, 16°34'25.315"E |
| Boraginaceae | <i>Sympodium officinale</i> | 3809 | 6 | 635 | 0.78 | <i>Solanum lycopersicum</i> | 2.245 | Hkf | N | 22 | 49°14'57.650"N, 16°34'21.753"E |
| Boraginaceae | <i>Sympodium tuberosum</i> + | 5369 | 8 | 671 | | | Gf | G | 22 | no | tuber |
| Apocynaceae | <i>Vinca herbacea</i> | 1577 | 2 | 789 | 0.61 | <i>Bellis perennis</i> | 0.510 | Gf | G | 23 | no |
| Apocynaceae | <i>Vinca minor</i> | 1340 | 2 | 670 | 1.32 | <i>Solanum lycopersicum</i> | 0.790 | Chf | N | 23 | 49°13'5.891"N, 16°40'42.984"E |
| Apocynaceae | <i>Asclepias syriaca</i> * | 822 | 2 | 411 | | | Gf | G | 24 | no | rhizome |
| Apocynaceae | <i>Vincetoxicum hirundinaria</i> + | 646 | 2 | 323 | | | Hkf | N | 24 | | |
| Lamiaceae | <i>Phlomis russeliana</i> | 9244 | 4 | 2311 | 0.21 | <i>Pisum sativum</i> | 1.179 | Hkf | N | 25 | Botanical garden Masaryk Univ. Brno |
| Lamiaceae | <i>Phlomis tuberosa</i> * | 3965 | 2 | 1982 | | | Gf | G | 25 | no | rhizome |
| Lamiaceae | <i>Stachys affinis</i> | 2796 | 2 | 1398 | 0.40 | <i>Bellis perennis</i> | 0.905 | Gf | G | 26 | no |
| Lamiaceae | <i>Stachys sylvatica</i> | 2273 | 2 | 1136 | 1.38 | <i>Bellis perennis</i> | 0.736 | Hkf | N | 26 | 49°16'38.592"N, 16°38'5.102"E |
| Scrophulariaceae | <i>Scrophularia nodosa</i> * | 1352 | 2 | 676 | | | Gf | G | 27 | no | rhizome |
| Scrophulariaceae | <i>Scrophularia umbrosa</i> ssp. <i>neesii</i> | 2401 | 4 | 600 | 0.92 | <i>Solanum lycopersicum</i> | 1.415 | Hkf | N | 27 | 49°16'18.224"N, 16°38'25.562"E |
| Scrophulariaceae | <i>Scrophularia vernalis</i> | 681 | 2 | 340 | 0.43 | <i>Solanum lycopersicum</i> | 0.401 | Hkf | N | 27 | 49°13'48.33"N 16°40'44.53"E |
| Solanaceae | <i>Datura inoxia</i> * | 4443 | 2 | 2221 | | | Gf | G | 28 | no | root |
| Solanaceae | <i>Datura quercifolia</i> + | 3374 | 2 | 1687 | | | Tf | N | 28 | | |
| Solanaceae | <i>Datura stramonium</i> | 3807 | 2 | 1903 | 0.48 | <i>Pisum sativum</i> | 0.485 | Tf | N | 28 | 49°12'39.333"N, 16°34'46.775"E |
| Solanaceae | <i>Solanum etuberosum</i> + | 1516 | 2 | 758 | | | Chf | N | 29 | | |
| Solanaceae | <i>Solanum lycopersicum</i> * | 1697 | 2 | 848 | | | Tf | N | 29 | | |
| Solanaceae | <i>Solanum pinnatisectum</i> + | 1516 | 2 | 758 | | | Gf | G | 29 | no | tuber |
| Solanaceae | <i>Solanum tuberosum</i> * | 3148 | 4 | 787 | | | Gf | G | 29 | no | tuber |
| Convolvulaceae | <i>Ipomoea batatas</i> | 2769 | 4 | 692 | 2.12 | <i>Solanum lycopersicum</i> | 1.632 | Gf | G | 30 | no |
| Convolvulaceae | <i>Ipomoea quamoclit</i> * | 1238 | 2 | 619 | | | Tf | N | 30 | | Cultivated plants of unknown origin |

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|----------------|---|-------|---|-------|------|-----------------------------|-------|-----|----|-----|-------------------------------------|-------|
| Convolvulaceae | <i>Ipomoea tiliacea</i> ⁺ | 3912 | 4 | 978 | | | Gf | G | 30 | no | tuber | |
| Convolvulaceae | <i>Ipomoea trifida</i> ⁺ | 1663 | 2 | 832 | | | Gf | G | 30 | no | tuber | |
| Adoxaceae | <i>Adoxa moschatellina</i> [*] | 40213 | 2 | 20106 | | | Gf | G | 31 | yes | rhizome | |
| Adoxaceae | <i>Sambucus ebulus</i> | 21246 | 2 | 10623 | 0.72 | <i>Epipremnum aureum</i> | 2.719 | Hkf | N | 31 | 49°13'4.89"N, 16°40'9.50"E | |
| Adoxaceae | <i>Sambucus nigra</i> | 24053 | 2 | 12026 | 1.49 | <i>Ruscus aculeatus</i> | 1.194 | Ff | N | 31 | 49°13'6.60"N, 16°40'48.55"E | |
| Adoxaceae | <i>Sambucus racemosa</i> ⁺ | 20636 | 2 | 10318 | | | Ff | N | 31 | | | |
| Valerianaceae | <i>Valeriana dioica</i> ⁺ | 2978 | 2 | 1489 | | | Hkf | N | 32 | | | |
| Valerianaceae | <i>Valeriana officinalis</i> | 2654 | 2 | 1327 | 0.35 | <i>Solanum lycopersicum</i> | 1.564 | Hkf | N | 32 | 49°13'35.072"N, 17°38'45.718"E | |
| Valerianaceae | <i>Valeriana tuberosa</i> | 3232 | 2 | 1616 | 0.97 | <i>Solanum lycopersicum</i> | 1.905 | Gf | G | 32 | yes | tuber |
| Apiaceae | <i>Hacquetia epipactis</i> [*] | 2692 | 2 | 1346 | | | Gf | G | 33 | yes | rhizome | |
| Apiaceae | <i>Sanicula europaea</i> | 2108 | 2 | 1054 | 0.31 | <i>Solanum lycopersicum</i> | 1.243 | Hkf | N | 33 | 49°13'16.01"N, 16°40'31.943"E | |
| Asteraceae | <i>Doronicum austriacum</i> | 7080 | 2 | 3540 | 3.59 | <i>Bellis perennis</i> | 2.291 | Hkf | N | 34 | 49°30'51.115"N, 18°22'49.561"E | |
| Asteraceae | <i>Doronicum hungaricum</i> [*] | 7525 | 2 | 3762 | | | Gf | G | 34 | no | tuber | |
| Asteraceae | <i>Bellis annua</i> | 2816 | 2 | 1408 | 0.77 | <i>Solanum lycopersicum</i> | 1.660 | Tf | N | 35 | 37° 4'19.47"N, 31°14'0.62"E | |
| Asteraceae | <i>Bellis perennis</i> | 3090 | 2 | 1545 | 0.81 | <i>Solanum lycopersicum</i> | 1.821 | Hkf | N | 35 | 49°15'3.437"N, 16°34'25.388"E | |
| Asteraceae | <i>Bellis sylvestris</i> [*] | 3991 | 4 | 998 | | | Gf | G | 35 | no | rhizome | |
| Asteraceae | <i>Helianthus annuus</i> | 5965 | 2 | 2983 | 0.57 | <i>Epipremnum aureum</i> | 0.763 | Tf | N | 36 | Cultivated plants of unknown origin | |
| Asteraceae | <i>Helianthus debilis</i> ⁺ | 7156 | 2 | 3578 | | | Tf | N | 36 | | | |
| Asteraceae | <i>Helianthus niveus</i> ⁺ | 7139 | 2 | 3570 | | | Hkf | N | 36 | | | |
| Asteraceae | <i>Helianthus petiolaris</i> ⁺ | 6695 | 2 | 3347 | | | Tf | N | 36 | | | |
| Asteraceae | <i>Helianthus tuberosus</i> | 20032 | 6 | 3339 | 0.98 | <i>Epipremnum aureum</i> | 2.563 | Gf | G | 36 | no | tuber |
| Asteraceae | <i>Bidens frondosa</i> ⁺ | 3130 | 4 | 783 | | | Tf | N | 37 | | | |
| Asteraceae | <i>Bidens radiata</i> | 4216 | 4 | 1054 | 1.96 | <i>Pisum sativum</i> | 0.538 | Tf | N | 37 | 49°11'5.205"N, 14°52'20.117"E | |
| Asteraceae | <i>Dahlia pinnata</i> | 8450 | 8 | 1056 | 2.50 | <i>Ruscus aculeatus</i> | 0.420 | Gf | G | 37 | no | root |
| Asteraceae | <i>Cosmos atrosanguineus</i> ⁺ | 14352 | 4 | 3588 | | | Gf | G | 38 | no | root | |
| Asteraceae | <i>Cosmos bipinnatus</i> ⁺ | 3032 | 2 | 1516 | | | Tf | N | 38 | | | |
| Asteraceae | <i>Cosmos sulphureus</i> ⁺ | 5868 | 2 | 2934 | | | Tf | N | 38 | | | |
| Asteraceae | <i>Scorzonera austriaca</i> | 9958 | 2 | 4979 | 0.78 | <i>Epipremnum aureum</i> | 1.274 | Hkf | N | 39 | 49°10'51.897"N, 16°43'43.260"E | |
| Asteraceae | <i>Scorzonera mollis</i> [*] | 4810 | 2 | 2405 | | | Gf | G | 39 | no | tuber | |
| Araceae | <i>Arisaema flavum</i> [*] | 9919 | 4 | 2480 | | | Gf | G | 40 | no | tuber | |
| Araceae | <i>Pistia stratiotes</i> ⁺ | 568 | 2 | 284 | | | Hf | N | 40 | | | |
| Araceae | <i>Homalomena rubescens</i> ⁺ | 17873 | 2 | 8937 | | | Gf | G | 41 | no | tuber | |
| Araceae | <i>Philodendron erubescens</i> ⁺ | 10328 | 2 | 5164 | | | Hkf | N | 41 | | | |
| Araceae | <i>Philodendron pinnatifidum</i> ⁺ | 4773 | 2 | 2387 | | | Hkf | N | 41 | | | |
| Araceae | <i>Philodendron squamiferum</i> ⁺ | 9095 | 2 | 4548 | | | Hkf | N | 41 | | | |

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|---------------|----------------------------------|-------|---|-------|------|----------------------|-------|-----|----|----|-------------------------------------|------|
| Juncaginaceae | <i>Triglochin bulbosa</i> * | 3453 | 4 | 863 | | | Gf | G | 42 | no | bulb | |
| Juncaginaceae | <i>Triglochin maritima</i> | 2360 | 4 | 590 | 2.95 | Pisum sativum | 0.301 | Hkf | N | 42 | Cultivated plants of unknown origin | |
| Nartheciaceae | <i>Narthecium ossifragum</i> † | 807 | 2 | 404 | | | Gf | G | 43 | no | rhizome | |
| Nartheciaceae | <i>Narthecium reverchonii</i> | 716 | 2 | 358 | 0.59 | Solanum lycopersicum | 0.422 | Hkf | N | 43 | Praha-Trója Botanical Garden | |
| Asparagaceae | <i>Ruscus aculeatus</i> * | 20137 | 2 | 10069 | | | Gf | G | 44 | no | rhizome | |
| Asparagaceae | <i>Ruscus hypoglossum</i> * | 15854 | 2 | 7927 | | | Gf | G | 44 | no | rhizome | |
| Asparagaceae | <i>Ruscus hypophyllum</i> * | 16475 | 2 | 8238 | | | Gf | G | 44 | | rhizome | |
| Asparagaceae | <i>Semele androgyna</i> * | 11842 | 2 | 5921 | | | Ff | N | 44 | | | |
| Asphodelaceae | <i>Asphodelus albus</i> † | 7091 | 2 | 3546 | | | Gf | G | 45 | no | root | |
| Asphodelaceae | <i>Asphodelus fistulosus</i> | 4905 | 2 | 2452 | 1.61 | Epipremnum aureum | 0.628 | Hkf | N | 45 | 40°32.983'N, 14°54.503'E | |
| Asphodelaceae | <i>Asphodelus microcarpus</i> * | 6553 | 2 | 3277 | | | Gf | G | 45 | no | root | |
| Poaceae | <i>Arrhenatherum elatius</i> | 13897 | 4 | 3474 | 0.71 | Epipremnum aureum | 1.778 | Hkf | N | 46 | 49°15'3.181"N, 16°34'25.763"E | |
| Poaceae | <i>Arrhenatherum palaestinum</i> | 8601 | 2 | 4301 | 7.83 | Bellis perennis | 2.784 | Gf | G | 46 | no | bulb |
| Poaceae | <i>Hordeum bulbosum</i> | 15232 | 4 | 3808 | | Epipremnum aureum | 1.949 | Gf | G | 47 | no | bulb |
| Poaceae | <i>Hordeum vulgare</i> † | 9780 | 2 | 4890 | | | Tf | N | 47 | | 36°49'24.223"N, 30°33'5.267"E | |

Species Data marked with plus (+) were adopted from C-value database (Bennett and Leitch, 2012); data marked with asterisk (*) were adopted from the publication Veselý et al. (2012); for details on used standards and sample origin see supplementary data for that paper

CV genome size [%] coefficient of variation for genome size estimation

Used standard for newly measured species; standard used for flow cytometric measurements. For more detail see Table 1.

Ratio for newly measured species; ratio sample/standard

Ephemeroid for geophytes; if species has ephemeroid phenology

Storage organ for geophytes; the type of subterranean storage organ (tuber, bulb, thick rhizome, tuberous root)

Life-form Gf-geophyte, Hkf-hemicryptophyte, Tf-therophyte, Ff-phanerophyte, Chf-chmaephyte, Hf-hydrophyte

G/N G for geophyte, N for non-geophyte