

Species Datasheet

Datasheet No. A-073.002.026
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species *Allium przewalskianum* Regel

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Allium jacquemontii* Regel, *A. jacquemontii* var. *parviflorum* (Ledeb.) Aswal, *A. junceum* Jacquem. ex Baker, *A. przewalskianum* var. *planifolium* Regel, *A. rubellum* var. *parviflorum* Ledeb., *A. stenophyllum* Wall. *A. stoliczkii* Regel

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Amaryllidaceae J. St.-Hil.
- Subfamily: Allioideae Herb.
- Genus: *Allium* L.
- Species: *A. przewalskianum* Regel

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Coronarieae
Ordo: Liliaceae Juss.
Genus: *Allium* L.
Species: *A. przewalskianum* Regel

4. Distribution:

Global: China, India, Mongolia, Nepal, Qinghai, Tibet,

India: East Himalaya, West Himalaya

5. Indigenous/Exotic/ Endemic; Cultivated/Wild: Wild/ often cultivated

6. Threat Status:

IUCN: Not Evaluated

BSI:

7. Habit and Habitat: Herbaceous; Temperate mixed forest

8. Life Form: Perennial, bulbous geophyte

9. Economic Importance: Condiments

10. Probable Progenitor of:

11. DNA

C- value

Methodology

12. Basic chromosome number(s): $x=8$ ^{103,242}

13. Zygotic chromosome number(s): $2n=16$ ^{103,241,242,243}
 $2n=32$ ^{9,241,242,243,244}
 $2n=64$ ²⁴¹

14. Gametic chromosome number(s):

15. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes): B chromosomes (1-2) ^{242,243}

Image file

16. Ploidy level: Diploid ^{103,241,242,243}, Tetraploid ^{103,241,242,243}, Octaploid ²⁴¹

Image file

17. Agametoploidy

18. Nature of polyploidy (auto, segmental, allo, autoallo): Autopolyploidy ²⁴²

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

21. Somatic chromosomes:

Karyotype Majority metacentric chromosomes ^{103,242}

Chromosome size

NOR chromosome(s) 2 NOR ^{103,241,242}

Degree of asymmetry: Stebbins 2A category ^{103,242}

Image file

22. Banding pattern(s):

Image file

23. Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis

Male meiosis

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocations etc):