

Species Datasheet

Datasheet No. A-377.009.008
(family.genus.species)

DBT- N

1. Taxon:

Species: *Barleria gibsonii* Dalzell
Subspecies
Variety
Cultivar
Hybrid
Image file

2. **Synonyms:** *Barleria gibsonioides* Blatt. *B. glauca* T. Anderson, *B. mackeenii* Hook. f. *B. montana* Wight & Nees ex C.B. Clarke.

3. Systematic Position:

APG IV (2016)

Kingdom: Plantae
Clade: Angiosperms
Clade: Eudicot
Clade: Asterids
Order: Lamiales
Family: Acanthaceae Juss.
Genus: *Barleria* L.
Species: *B. gibsonii* Dalzell

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Gamopetalae
Series: Bicarpellatae
Cohors: Personales
Ordo: Acanthaceae Juss.
Genus: *Barleria* L.
Species: *B. gibsonii* Dalzell

4. Distribution:

Global:

India: Andhra Pradesh, Gujarat, Karnataka, Madhya Pradesh, Maharashtra, Odisha and Tamil Nadu.

5. **Indigenous/Exotic/Endemic; Cultivated/Wild:** Endemic

6. Threat Status:

IUCN:

BSI:

7. **Habit and Habitat:** Shrub. Found on grassy hilltops and slopes at higher altitudes.

8. **Life Form:** Chamaephytes

9. **Economic Importance:** Medicinal, ornamental.

10. **Probable Progenitor of:**

11. DNA

C-value Methodology

12. **Basic chromosome number(s):** $x=20^4$

13. **Zygotic chromosome number(s):** $2n=40^{2, 4}$

14. **Gametic chromosome number(s):** $n=20^{4, 9}$

15. **Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric Chromosomes etc):**

Image file

16. Ploidy level:

Image file

17. Agamete ploidy:

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

19. **Genomic formula:**

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

21. Somatic chromosomes:

Karyotype-2 medium size (2.5 μ to 4 μ) metacentric chromosomes, 10 medium size (2.5 μ to 4 μ) sub-metacentric chromosomes, 8 medium size sub-telocentric, 2 medium size chromosome with satellites on the short arm, 2 short (1 μ to 2.5 μ m) metacentric chromosomes, 10 short (1 μ to 2.5 μ m) sub-metacentric chromosomes and 6 short sub-telocentric chromosomes⁴

Chromosome size-1 μ to 4 μ m⁴

NOR chromosome(s)

Degree of asymmetry: Symmetrical⁴

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

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level

29. Any other information: