

Species Datasheet

Datasheet No. A-061.035.003
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Coelogyne barbata* Lindl. ex Griff.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Pleione barbata (Lindl. ex Griff.) Kuntze

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribus: Arethuseae
- Subtribus: Coelogyninae
- Genus: *Coelogyne* Lindl.
- Species: *Coelogyne barbata* Lindl. ex Griff.

Bentham and Hooker(1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Subtribus: Colleogyneae
Genus: *Coelogyne* Lindl.
Species: *Coelogyne barbata* Lindl. ex Griff.

4. Distribution:

Global: Bangladesh, China South-Central, India, Myanmar, Nepal, Tibet

India: Assam, Manipur, Meghalaya, Mizoram, Nagaland, Arunachal Pradesh, Sikkim, West Bengal

5. Indigenous/Exotic/Endemic; Cultivated/Wild: Indigenous, wild and cultivated

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Occurs as a lithophyte in rather exposed conditions in high rain fall areas. It also occurs as an epiphyte.

8.Life Form: Cryptophyte/Phanerophyte

9.Economic Importance:Cultivated ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=20^{20, 21, 22, 26, 30, 31}$

13. Zygotic chromosome number(s): $2n=40^{20, 22, 30, 31}$

14. Gametic chromosome number(s): $n=20^{20, 21, 22, 26}$

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

Image file

16.Ploidy level:Diploid^{20, 21, 22, 26, 30, 31}

Image file

17.Agametoploidy:

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

19.Genomic formula:

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

21.Somatic chromosomes:³⁰

KaryotypeMedian, submedian³⁰

Chromosome sizeSmall³⁰

NOR chromosome(s)

Degree of asymmetrySymmetrical³⁰

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 $20\text{II}^{21, 26}$

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; Translocation etc.):