

Species Datasheet

Datasheet No. A-061.107.003
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Vanda coerulea* Griff. ex Lindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Vandacoerulea* f. *delicata* \(Rolfe\) Christenson](#)

[*Vandacoerulea* f. *luwangalba* Kishor](#)

[*Vandacoerulea* var. *rogersii* Rolfe](#)

[*Vandacoerulea* f. *rogersii* \(Rolfe\) Christenson](#)

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Genus: *Vanda* R.Br.
- Species: *Vanda coerulea* Griff. ex Lindl.

Bentham and Hooker (1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Genus: *Vanda* R.Br.

Species: *Vanda coerulea* Griff. ex Lindl.

4. Distribution:

Global: India, Myanmar and Thailand at elevations of 800 to 1700 m

India: Eastern Himalayas, Khasi Jaintia and Manipur hills, 1300m

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Medium to large sized, warm to cool growing, monopodial epiphyte on oak trees

8.LifeForm:Herbaceous perennial

9.EconomicImportance:Cultivated ornamental, Great ornamental value, medicinal leaves used as expectorant, diarrhea, dysentery

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19$ ⁶, 10, 11, 15, 16, 21, 23, 25, 28, 29, 33, 34

13. Zygotic chromosome number(s): $2n=38$ ⁶, 10, 11, 15, 23, 25, 28, 29, 34

14. Gametic chromosome number(s): $n=19$ ¹⁵, 16, 21, 33

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

Image file

16.Ploidy level:Diploid⁶, 10, 11, 15, 16, 21, 23, 25, 28, 29, 33, 34

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:²⁵

Karyotype Median, submedian, 1 pair subterminal²⁵

Chromosome size Small²⁵

NOR chromosome(s)

Degree of asymmetry Symmetrical²⁵

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 19II^{16, 21}

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.):