

Species Datasheet

Datasheet No. A-061.107.011
(family.genus.species)

DBT-1

1. Taxon:

Species: *Vanda tessellata* (Roxb.) Hook. ex G. Don

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Aeridestessellata* \(Roxb.\) Wight ex Lindl.](#)

[*Cymbidiumallagnata* Buch.-Ham. ex Wall.](#) [Invalid]

[*Cymbidiumtessellatum* \(Roxb.\) Sw.](#)

[*Cymbidiumtesselloides* Roxb.](#)

[*Epidendrumtessellatum* Roxb.](#)

[*Vandaroxburghii* R.Br.](#)

[*Vandaroxburghii* var. *wrightiana* Rchb.f.](#)

[*Vandatesselloides* \(Roxb.\) Rchb.f.](#)

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 tessellata* (Roxb.)
Hook. ex G. Don

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Genus: *Vanda* R.Br.
Species: *Vanda tessellata*
(Roxb.) Hook. ex G. Don

4. Distribution:

Global: Chinese Himalayas, Bangladesh, India (eastern Himalayas, Assam) Nepal, India, Sri Lanka, western Himalayas and Myanmar at elevations around 1500 m

India: Himalayas, Assam

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

6. Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Medium to large sized, cool growing epiphyte

8.Life Form:Herbaceous perennial

9.Economic Importance:Cultivated ornamental, medicinal(contains phytochemicals such as alkaloids, tannins and saponin. It is used as an aphrodisiac, analgesic and nerve tonic and used in Ayurvedic medicine for treatment of arthritis and rheumatism)

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{9, 20, 26}$

13. Zygotic chromosome number(s): $2n=38^{9, 20, 26}, 38, 42, 44^{22}$

14. Gametic chromosome number(s): $n=$

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

Image file

16.Ploidy level:Diploid^{9, 20, 26}

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:²⁰

KaryotypeMedian, submedian²⁰

Chromosome sizeSmall²⁰

NOR chromosome(s)4²⁰

Degree of asymmetrySymmetrical²⁰

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;Translocationsetc.):