

Datasheet No. A-061.013.015
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Bulbophyllumcareyanum*(Hook.) Spreng.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Anisopetaloncareyanum* Hook., *Bulbophyllumcareyanum* var. *sikkimense* Lucksom, *Bulbophyllumcupreum* Hook., *Phyllorkispurpurea* (Hook.) Kuntze, *Pleurothallispurpurea* D.Don, *Tribrachiapurpurea* (D.Don) Lindl.

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Malaxideae
- Subtribe: Dendrobieinae
- Genus: *Bulbophyllum* Thouars
- Species: *Bulbophyllumcareyanum* (Hook.) Spreng.

Bentham and Hooker(1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Subtribus: Dendrobieae
Genus: *Bulbophyllum* Thouars
Species: *Bulbophyllumcareyanum* (Hook.) Spreng.

4.Distribution:

Global: India, Nepal, Bhutan, Myanmar, Thailand, Vietnam

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

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Grows in hot valleys at low altitudes as an epiphyte in evergreen lowland forests as a small sized, 200-2100m

8.Life Form: Phanerophytes

9.Economic Importance:Medicinal - powder of leaves used for abortion and recovery during child birth

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=19^{18, 20, 27}$

13. Zygotic chromosome number(s): $2n=38^{18}, 38+B^{20}, 38+2B^{27}$

14. Gametic chromosome number(s): $n=19^{18, 19, 24}, 19+B^{20}$

15.Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes): $1-2 B's^{20, 27}$

Image file

16.Ploidy level:Diploid^{18, 19, 20, 24, 27}

Image file

17.Agametoploidy:

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

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):In 6% PMC's hypo and hyper-ploid numbers varying from 18-20 II's noticed^{19, 24}

21.Somatic chromosomes:

Karyotype

Chromosome size

NOR chromosome(s)

Degree of asymmetry

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 19 II 19, 24

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.):