

Datasheet No. A-061.014.016
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Calanthe sylvatica* (Thouars) Lindl.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Bletia sylvatica* (Thouars) Bojer, *Calanthe candida* Bosser, *Calanthe corymbosa* (Thouars) Lindl., *Calanthe delphinioides* Kraenzl., *Calanthe humbertii* H.Perrier, *Calanthe natalensis* (Rchb.f.) Rchb.f., *Calanthe neglecta* Schltr., *Calanthe sanderiana* B.S.Williams, *Calanthe sanderiana* Rolfe, *Calanthe schliebenii* Mansf., *Calanthe stoltzii* Schltr., *Calanthe sylvatica* var. *geerinckiana* Stévant, *Calanthe sylvestris* Lindl. ex Steud., *Calanthe volkensii* Rolfe, *Centrosia aubertii* A.Rich., *Centrosia corymbosa* Thouars, *Centrosia plantaginea* Thouars, *Centrosia sylvatica* Thouars

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Collabieae
- Genus: *Calanthe* R.Br.
- Species: *Calanthe sylvatica* (Thouars) Lindl.

Bentham and Hooker(1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Epidendreae
Subtribus: Blettieae
Genus: *Calanthe* R.Br.
Species: *Calanthe sylvatica* (Thouars) Lindl.

4.Distribution:

Global: Sri Lanka, India, Nepal, Bhutan, Guangdong, Guangxi, Hunan, southeastern Tibet, China, Hong Kong, Myanmar, Thailand, Vietnam, Malaysia, Sabah and Sarawak Borneo, Java, Sumatra, Sulawesi, Ryukyu Islands

India: Sikkim Himalayas, Khasi and Jaintia hills, Karnataka,

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Terrestrial herbs; this beautiful evergreen species grows in rather warm climate at 500-1500 m

8.Life Form: Cryptophytes

9.Economic Importance: Cultivated ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=20^{2, 3, 4, 18, 26, 27}, 21^{16}, 26^{21, 25}$

13. Zygotic chromosome number(s): $2n=40^{2, 3, 4, 18, 27, 42^{16}, 52^{21, 25}}$

14. Gametic chromosome number(s): $n=20^{2, 18, 26}, 21^{16}, 19-21^{17}$

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

Image file

16.Ploidy level:Diploid^{2, 3, 4, 16, 18, 21, 25, 26, 27}

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:

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 19,20,21 II^{17, 23}, 20 II²⁶

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.):