

Datasheet No. A-061.014.012
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species: *Calanthemannii*Hook.f.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Calanthebrachychila*Gagnep., *Calantheoblanceolata*Ohwi&T.Koyama, *Calanthepusilla*Finet

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: *Calanthemannii*Hook.f.

Bentham and Hooker(1862)

Kingdom: Plantae

Division: Phanerogamia

Class: Monocotyledonae

Series: Microspermae

Ordo: Orchideae

Tribus: Epidendreae

Subtribus: Blettieae

Genus: *Calanthe* R.Br.

Species: *Calanthemannii*Hook.f.

4.Distribution:

Global:Himalayas, Eastern Himalayas, Nepal, Myanmar, southern China and Vietnam

India: North-West Himalayas, Arunachal Pradesh, Meghalaya, Nagaland, Uttarakhand, West Bengal

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Terrestrial herbs, grows in humus rich soil in thick shady forests at 2650m

8.Life Form:Cryptophytes

9.Economic Importance:Ornamental

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=20$ ^{4, 6, 10, 11, 12, 14, 17, 23, 35}

13. Zygotic chromosome number(s): $2n=40$ ^{4, 6, 10, 11, 12, 14, 35}

14. Gametic chromosome number(s): $n=20$ ^{14, 17, 23}

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

Image file

16.Ploidy level:Diploid^{4, 6, 10, 11, 12, 14, 17, 23, 35}

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:^{6, 11, 12}

KaryotypeMedian, submedian^{6, 11, 12}

Chromosome size Small^{6, 11, 12}

NOR chromosome(s)

Degree of asymmetry Symmetrical^{6, 11, 12}

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 2011^{17, 23}

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.):