

Datasheet No. A-061.014.018
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Calanthe triplicata* (Willemet) Ames

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: *Alismorkis veratrifolia* Kuntze, *Amblyglottis veratrifolia* Blume, *Bletia quadrifida* Hook.f., *Calanthe anchorifera* Rchb.f., *Calanthe angraeciflora* Rchb.f., *Calanthe anthropophora* Ridl., *Calanthe australasica* D.L.Jones & M.A.Clem., *Calanthe bracteosa* Rchb.f., *Calanthe brevicolumna* Hayata, *Calanthe breviflos* Ridl., *Calanthe catilligera* Rchb.f., *Calanthe colorans* Rchb.f., *Calanthe diploxiphion* Hook.f., *Calanthe furcata* Bateman ex Lindl., *Calanthe furcata* f. *albolineata* K.Nakaj., *Calanthe furcata* f. *brevicolumna* (Hayata) M.Hiroe, *Calanthe gracillima* Lindl., *Calanthe matsumurana* Schltr., *Calanthe muelleri* Kraenzl., *Calanthe nephroglossa* Schltr., *Calanthe orthocentron* Schltr., *Calanthe petri* Rchb.f., *Calanthe proboscidea* Rchb.f., *Calanthe pubescens* Ridl., *Calanthe rubicallosa* Masam., *Calanthe triantherifera* Nadeaud, *Calanthe triplicata* f. *albolineata* (K.Nakaj.) Hatus., *Calanthe triplicata* f. *albomarginata* (K.Nakaj.) K.Nakaj., *Calanthe triplicata* var. *angraeciflora* (Rchb.f.) N.Hallé, *Calanthe triplicata* var. *gracillima* (Lindl.) N.Hallé, *Calanthe triplicata* f. *purpureoflora* S.S.Ying, *Calanthe veratrifolia* R.Br. ex Ker Gawl., *Calanthe veratrifolia* var. *kennyi* F.M.Bailey, *Calanthe veratrifolia* var. *stenochila* Rchb.f., *Limodorum ventricosum* Steud., *Limodorum veratrifolium* Willd., *Orchis triplicata* Willemet

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 triplicata* (Willemet) Ames

Bentham and Hooker(1862)

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

4. Distribution:

Global: Mauritius, Madagascar, Seychelles, Assam, eastern Himalayas, lower India, Sri Lanka, Myanmar, Thailand, Malaysia Laos, Cambodia, Fujian, Guangdong, Guangxi, Guizhou, Hainan and Yunnan provinces of China, Hong Kong, Vietnam, Borneo, Java, Lesser Sunda Islands, Moluccas, Philippines, Sulawesi, Sumatra, Bismark Islands, New Guinea, Solomon Islands, Norfolk Island, New South Wales, and Queensland Australia, Fiji, New Caledonia, Samoa, Vanuatu, Wallis & Futuna, Marquesas, Santa Cruz Islands, Caroline Islands, the Marianas Islands, Taiwan and the Ryukyu Islands

India: Eastern Himalayas, South India, Arunachal Pradesh, Kerala, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Tamil Nadu

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Pseudobulb geophyte or lithophyte in Tropical Moist Forest at 500-1500m

8. Life Form: Cryptophytes

9. Economic Importance: Cultivated ornamental

10. Probable Progenitor of:

11. DNA

C-value Methodology

12. Basic chromosome number(s): $x=20^{4, 5, 7, 19, 27, 28, 29, 30, 36}$

13. Zygotic chromosome number(s): $2n=40^{4, 5, 7, 19, 27, 28, 30, 36}$, $40+0-2B^{29,30}$

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

15. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene

chromosomes/Neocentric chromosomes): $0-2 B's^{29, 30}$

Image file

16. Ploidy level: Diploid^{4, 5, 7, 19, 27, 28, 29, 30, 36}

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

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.):