

Species Datasheet

Datasheet No. A-061.068.004
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Pecteilis susannae* (L.) Raf.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

Habenaria susannae (L.) R.Br. ex Spreng.

Hemihabenaria susannae (L.) Finet

Orchis susannae L.

Platanthera robusta Lindl.

Platanthera susannae (L.) Lindl.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Orchidoideae
- Genus: *Pecteilis* Raf.
- Species: *Pecteilis susannae* (L.) Raf.
- Subspecies:
- Variety:

Bentham and Hooker(1862)

Kingdom:

Division:

Class:

Series:

Ordo:

Tribus:

Subtribus:

Genus:

Species:

Subspecies:

Variety:

4. Distribution:

Global: India (Assam), Myanmar, Thailand, Cambodia, Laos, China, Hong Kong, Vietnam, Malaysia, Borneo, Java, Lesser Sunda Islands, Moluccas and Sulawesi at elevations of 350-2500 m

India: Eastern Himalayas, Assam

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

Bentham and Hooker(1862)

Kingdom:

Division:

Order:

6. Threat Status:

IUCN:

BSI:

Class:

Subclass:

Order:

Family:

Subfamily:

Genus:

Species:

Subspecies:

7.Habit and Habitat: Large to giant sized, hot to cool growing terrestrial variety.

8.Life Form: Herbaceous perennial

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=21$ ^{1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16}

13. Zygotic chromosome number(s): $2n=42$ ^{1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16}

14. Gametic chromosome number(s): $n=21$ ^{7, 8, 12, 14}

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

Image file

16.Ploidy level: Diploid^{1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16}

Image file

17.Agametoploidy:

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

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty): Aneusomaty cells with $2n=36, 44$ ⁴

21.Somatic chromosomes: ^{3, 7, 8, 12}

Karyotype Median, submedian, subterminal, terminal ^{3, 7, 8, 12}

Chromosome size Small^{3, 7, 8, 12}

NOR chromosome(s) 8³

Degree of asymmetry Moderately asymmetrical^{3, 7, 8, 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 21II^{7, 8, 12, 14}

Image file

27. Chromosome distribution at anaphase I: Bridges occur at A-I due to stickiness laggards are seen at A-II^{7, 12}

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocation etc.):