Species Datasheet

Datasheet No. A-061.073.005 **DBT- Network Programme**
(family.genus.species)

1.Taxon:

Species**:** *Platantheraclavigera*Lindl.
Subspecies:
Variety:
Cultivar
Hybrid

Image file

2. Synonyms:

Habenariaclavigera (Lindl.) Dandy
Habenariadensa Wall. ex Lindl.
Habenellaclavigera (Lindl.) Szlach. &Kras-Lap.
Habenelladensa (Wall. ex Lindl.) Szlach. &Kras-Lap.
Platantheradensa (Wall. ex Lindl.) Soó [Illegitimate]
Platantheroidesclavigera (Lindl.) Szlach.
Platantheroidesdensa (Wall. ex Lindl.) Szlach.

3.Systematic Position:
APG IV (2016)

- Kingdom: Plantae
- Clade: Angisperms
- Clade: Monocots
- Order: Asparagales Link
- Family: OrchidaceaeJuss.
- Subfamily: Orchidoideae
- Tribe: Orchideae
- Subtribe: Orchidinae
- Genus: *Platanthera* Rich.
- Species:*Platantheraclavigera*Lindl.

4.Distribution:

Global: China, western and eastern Himalayas, India, Nepal and Bhutan

India: Distributed along Himalayan ranges from 2400-3000m

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:terrestrial tuberous herb, grows on grassy slopes and open areas at 2300-2400m

8.Life Form: Cryptophytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value **Methodology**

12.Basic chromosome number(s):x=21[14] , 22[7, 8, 14, 21, 27] , 23 [17,18, 22, 27, 28] , 24[8, 15, 16, 18, 27]

13. Zygotic chromosome number(s):2n=44 [7, 8, 14, 21, 27] ,46[17, 18] , 48[8, 15, 16, 18, 27]

14. Gametic chromosome number(s):n=21[14], 22[21], 23[17, 22, 27, 28]

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

Image file

16.Ploidy level: Diploid[7, 8, 14, 15, 16, 17, 18, 21, 22, 27, 28]

Image file

17.Agametoploidy:

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

19.Genomic formula:

20.Aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty): Aneuploid races with 2n=44,48[15]

21.Somatic chromosomes: Cytotype with 2n=48[7, 8, 15]

Karyotype Median, submedian, 3 pairs subterminal, 1 pair terminal[7, 8, 15]

Chromosome size Small[7, 8, 15]

NOR chromosome(s)

Degree of asymmetry Fairly asymmetrical[7, 8, 15]

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 Cytotype with 2n=44: shows 22II [7, 15]

Cytotype with 2n=46; 23 II [22]

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;Translocationsetc.):