

Species Datasheet

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Datasheet No. P-006.002.007
- **(family.genus.species)**

DBT- Network Programme

1.Taxon:

Species: *Ophioglossum petiolatum* Hook.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms: Nil

3.Systematic Position: Christenhusz 2011

- Class: Equisetopsida C.Agardh
- Subclass: Ophioglossidae Klinge
- Order: Ophioglossales Link
- Family: Ophioglossaceae Martinov.
- Subfamily:
- Genus: *Ophioglossum* L.
- Species: *Ophioglossum petiolatum* Hook.
- Subspecies:
- Variety:

4.Distribution:

Global:China (Fujian, Guizhou, Hainan, Hubei, Sichuan, Yunnan), Taiwan, W-India, Japan, Nepal, Sri Lanka, Thailand, Vietnam, N-Pakistan, Fiji

India: Punjab, Madhya Pradesh (Sultangarh, Gwalior), Maharashtra (Mahabaleshwar, Lonawala, Khandala), Palni Hills, Kodaikanal

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Terrestrial

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value	Methodology
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2C (110.00pg)	³⁰ Feulgenmicrodensitometry ³⁰
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2C (131.10pg)	²⁹ Flow cytometry ²⁹
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12.Basic chromosome number(s): $x=30$ (Palaeobasic)^{14, 15, 19, 20}, 120 (Neobasic)^{14, 15, 19, 20}

13. Zygotic chromosome number(s): $2n=c.960$ ^{26, 29},

$c.1020$ ²⁴,

14. Gametic chromosome number(s): $n=100$ ¹⁴,

108 ^{14, 15},

112 ^{14, 15},

124 ^{14, 15},

240 ⁶,

$c.240+2-3$ ^{8, 14, 15, 40},

120^{14, 15, 19, 20},

c.470²²,

480⁴⁹,

c.510²⁴,

510-515⁴³,

510-575^{25, 43},

c.500^{25, 43},

480^{26, 28},

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

Image file

16.Ploidylevel:Hexaploid (aneuploid)/Diploid (aneuploid)^{14, 15},

Octoploid (aneuploid)/Diploid (aneuploid)^{14, 15},

Octoploid/Diploid^{14, 15, 19, 20},

16-ploid/Tetraploid^{6, 8, 14, 15, 40},

32-ploid(aneuploid)/Octoploid (aneuploid)²²,

32-ploid/Octoploid^{26, 28, 29, 49},

34-ploid/Octoploid (aneuploid)^{24, 25, 43}

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 Hexaploid (aneuploid)/Diploid (aneuploid) 100II^{14} ,
 $108\text{II}^{14, 15}$

Octoploid (aneuploid)/Diploid (aneuploid) $112\text{II}^{14, 15}$, $124\text{II}^{14, 15}$

Octoploid/Diploid $120\text{II}^{14, 15, 19, 20}$,

16-ploid/Tetraploid: c. $240\text{II}+2\text{-3I}^{14, 15, 40}$,

16-ploid/Tetraploid : 240II^6 ,

34-ploid/Octoploid (aneuploid): $510\text{-}515\text{II}^{43}$,c. 510II^{24} ,

32-ploid/Octoploid: $480\text{II}^{26, 28, 49}$

32-ploid(aneuploid)/Octoploid (aneuploid) c. 470II^{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.):