

Species Datasheet

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Datasheet No. P-006.002.010
- **(family.genus.species)**

DBT- Network Programme

1.Taxon:

Species: *Ophioglossum thermal* Kom.

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 thermale* Kom.
- Subspecies:
- Variety:

4.Distribution:

Global:China (Anhui, Guizhou, Hebei, Heilongjiang, Henan, Jiangsu, Jiangxi, Jilin, Liaoning, Shaanxi, Shandong, Sichuan, Yunnan), Taiwan, Kamchatka, Japan, Ryukyu Isl., South Korea, Russian Far East, Bonin Isl. (Chichijima, Ootohshima)

India: Madhya Pradesh (Gwalior, Sivpuri, Kanharjhir, Sultangarh, Mohna)

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat:Grassy hillsides, near thermal springs; 200-1800 m.

8.Life Form:

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value	Methodology
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12.Basic chromosome number(s): $x=30$ (Palaeobasic)¹⁴, 120 (Neobasic)¹⁴

13. Zygotic chromosome number(s): $2n=$

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

120¹⁴,

132¹⁴,

184¹⁴,

240^{6, 14, 44},

360^{6, 8, 9, 15},

350-365⁹,

c.480¹⁴

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

Image file

16.Ploidylevel:Octoploid/Diploid¹⁴,

Octoploid (aneuploid)/Diploid (aneuploid)¹⁴ ,

12-ploid (aneuploid)/Triploid (aneuploid)¹⁴ ,

16-ploid/Tetraploid^{6, 14, 44} ,

24-ploid/Hexaploid^{6, 8, 9, 15} ,

24-ploid (aneuploid)/Hexaploid (aneuploid)⁹ ,

32-ploid/ Octoploid¹⁴

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 meiosisOctoploid/Diploid: 120II^{14} ,

Octoploid (aneuploid)/Diploid (aneuploid): 132II^{14} ,

12-ploid (aneuploid)/Triploid (aneuploid) 184II^{14} ,

16-ploid/Tetraploid: $240\text{II}^{6, 44}$,

24-ploid/Hexaploid: $360\text{II}^{6, 8, 9, 15}$,

24-ploid (aneuploid)/Hexaploid (aneuploid) $350\text{II}-365\text{II}^9$,

32-ploid/ Octoploid: $c.480\text{II}^{14}$

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.):