

Species Datasheet

Datasheet No. A-061.057.010
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Goodyerarepens*(L.) R.Br.

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Elasmatiumrepens* \(L.\) Dulac](#)

[*Epipactischinensis* \(Schltr.\) Hu](#)

[*Epipactismairei* \(Schltr.\) Hu \[Illegitimate\]](#)

[*Epipactisrepens* \(L.\) Crantz](#)

[*Epipactisrepens* var. *ophioides* \(Fernald\) A.A.Eaton](#)

[*Gonogonarepens* \(L.\) Link](#)

[*Goodyerabrevis* Schltr.](#)

[*Goodyerachinensis* Schltr.](#)

[*Goodyeramairei* Schltr.](#)

[*Goodyeramarginata* Lindl.](#)

[*Goodyeranantoensis* Hayata](#)

[*Goodyeraophioides* \(Fernald\) Rydb.](#)

[*Goodyerapubescens* var. *repens* \(L.\) Alph.Wood](#)

[*Goodyerarepens* var. *japonica* Nakai](#)

[*Goodyerarepens* var. *marginata* \(Lindl.\) Tang & F.T.Wang](#)

[*Goodyerarepens* subsp. *ophioides* \(Fernald\) Á.Löve & W.Simon](#)

[*Goodyerarepens* var. *ophioides* Fernald](#)

[*Goodyerarepens* f. *ophioides* \(Fernald\) P.M.Br.](#)

[*Goodyerarepens* var. *repens*](#)

[*Neottiarepens* \(L.\) Sw.](#)

[*Orchiodesmarginatum* \(Lindl.\) Kuntze](#)

[*Orchiodesrepens* \(L.\) Kuntze](#)

[*Orchiodesresupinatum* Kuntze](#)

[*Orchisrepens* \(L.\) Eyster ex Poir.](#)

[*Peramiumnantoense* \(Hayata\) Makino](#)

[*Peramiumrepens* \(L.\) Salisb.](#)

[*Peramiumrepens* var. *ophioides* \(Fernald\) A.Heller](#)

[*Peramiumsecundum* \(Raf.\) House](#)

[*Satyriumhirsutum* Gilib. \[Invalid\]](#)

[*Satyriumrepens* L.](#)

[*Serapiasrepens* \(L.\) Vill.](#)

[*Tussacarepens* \(L.\) Raf.](#)

[*Tussacasecunda* Raf.](#)

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link.
- Family: Orchidaceae Juss.
- Subfamily: Orchidoideae
- Tribe: Cranichideae
- Subtribe: Goodyerinae
- Genus: *Goodyera* R.Br.
- Species: *Goodyera repens* (L.) R.Br.

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledonae
Series: Microspermae
Ordo: Orchideae
Tribus: Neottieae
Subtribus: Spirantheae
Genus: *Goodyera* R.Br.
Species: *Goodyera repens* (L.) R.Br.

4. Distribution:

Global: Europe, Asia and North America including Russia, China, Germany, Poland, the United Kingdom, Canada and the United States, India

India: Distributed in temperate Himalayas from Kashmir to Sikkim 2200-3300m

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

6. Threat Status:

IUCN: Endangered

BSI:

7. Habit and Habitat: Terrestrial herb, grows in moist shady places at 2200-3300m

8. Life Form: Cryptophytes

9. Economic Importance: Cultivated ornamental, medicinal, tuber paste applied in syphilis, extract taken as blood purifier.

10. Probable Progenitor of:

11. DNA

C-value

Methodology

2C (9.98 pg)²⁸

Feulgen microdensitometry²⁸

12. Basic chromosome number(s): x=15³, 4, 9, 10, 11, 12, 13, 14, 15, 16, 19, 20, 21, 27, 29, 30, 31, 35, 36, 38, 41, 42, 45, 16², 6, 21, 32, 34, 36, 39, 40, 42, 45, 20⁷, 34

13. Zygotic chromosome number(s): $2n=30$ ^{3, 4, 9, 10, 11, 12, 13, 14, 15, 19, 20, 21, 29, 30, 31, 35, 36, 38, 42, 45},
^{32, 6, 21, 32, 34, 36, 39, 40, 42, 45},
⁴⁰^{7, 34}

14. Gametic chromosome number(s): $n=15$ ^{9, 16, 19, 20, 27, 36, 41, 42, 45}, ¹⁶⁴⁵

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

Image file

16. Ploidy level:Diploid^{2, 3, 4, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 19, 20, 21, 27, 29, 30, 31, 32, 34, 35, 36, 38, 39, 40, 41, 42, 45}

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:^{9, 19, 20}

Karyotype Median, submedian, 1 pair subterminal^{9, 19, 20}

Chromosome size Small^{9, 19, 20}

NOR chromosome(s)

Degree of asymmetrySymmetrical^{9, 19, 20}

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 A: 15II⁹, 19, 20, 36, 41, 42 ,

Cytotype B; 16II⁴²

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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