

Species Datasheet

Datasheet No. A-061.025.001
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cephalanthera longifolia* (L.) Fritsch

Subspecies:

Variety:

Cultivar

Hybrid

Image file

2. Synonyms:

[*Cephalanthera acuminata* Wall. ex Lindl.](#)
[*Cephalanthera angustifolia* Simonk.](#)
[*Cephalanthera conferta* \(B. Baumann & H. Baumann\) Kreutz](#)
[*Cephalanthera ensifolia* Rich. \[Illegitimate\]](#)
[*Cephalanthera ensifolia* var. *acuminata* \(Wall. ex Lindl.\) Tang & F. T. Wang](#)
[*Cephalanthera ensifolia* var. *cesari-gonzalezii* Rivas Goday & Bellot](#)
[*Cephalanthera ensifolia* var. *maravignae* \(Tineo\) Nyman](#)
[*Cephalanthera grandiflora* Gray \[Illegitimate\]](#)
[*Cephalanthera longchophylla* Rchb. f. \[Illegitimate\]](#)
[*Cephalanthera longifolia* subsp. *conferta* B. Baumann & H. Baumann](#)
[*Cephalanthera longifolia* var. *gibbosa* Boiss.](#)
[*Cephalanthera longifolia* f. *latifolia* \(Maire\) Maire & Weiller](#)
[*Cephalanthera longifolia* var. *latifolia* \(Maire\) D. Rivera & Lopez Velez](#)
[*Cephalanthera longifolia* f. *longibracteata* \(Harz\) Asch. & Graebn.](#)
[*Cephalanthera longifolia* f. *pilosa* \(Harz\) Soó](#)
[*Cephalanthera longifolia* f. *pumila* Asch. & Graebn.](#)
[*Cephalanthera longifolia* var. *rosea* Perko](#)
[*Cephalanthera mairei* Schltr.](#)
[*Cephalanthera maravignae* Tineo](#)

[*Cephalanthera pallens* Rich.](#)
[*Cephalanthera thomsonii* Rchb. f.](#)
[*Cephalanthera xiphophyllum* Rchb. f. \[Illegitimate\]](#)
[*Cephalanthera xiphophyllum* var. *latifolia* Maire](#)
[*Cymbidium xiphophyllum* \(Ehrh. ex L. f.\) Sw.](#)
[*Epipactis ensifolia* F. W. Schmidt](#)
[*Epipactis ensifolia* Sw.](#)
[*Epipactis grandiflora* \(L.\) Sm.](#)
[*Epipactis grandifolia* All.](#)
[*Epipactis longifolia* \(L.\) All.](#)
[*Epipactis longifolia* var. *gibbosa* \(Boiss.\) W. Zimm.](#)
[*Epipactis longifolia* var. *longibracteata* Harz](#)
[*Epipactis longifolia* var. *pilosa* Harz](#)
[*Epipactis pallens* Sw. \[Illegitimate\]](#)

[*Epipactispallida* Sw.](#)
[*Epipactisxiphophylla* \(Ehrh. ex L.f.\) Sw.](#)
[*Helleborinelongifolia* \(L.\) Moench](#)
[*Limodorumacuminatum* \(Wall. ex Lindl.\) Kuntze](#)
[*Limodorumgrandiflorum* \(L.\) Kuntze \[Illegitimate\]](#)
[*Limodorumlongifolium* \(L.\) Kuntze \[Illegitimate\]](#)
[*Serapiasalba* \(Crantz\) Salisb. \[Illegitimate\]](#)
[*Serapiasensifolia* \(L.f.\) Murray](#)
[*Serapiasgrandiflora* L. \[Illegitimate\]](#)
[*Serapiasgrandiflora* var. *ensifolia* L.f.](#)
[*Serapiashelleborine* var. *longifolia* L.](#)
[*Serapiaslonchophyllum* L.f. \[Illegitimate\]](#)
[*Serapiaslongifolia* \(L.\) L.](#)
[*Serapiaslongifolia* Scop.](#)
[*Serapiaslongifolia* Huds.](#)
[*Serapiasnivea* Vill. \[Illegitimate\]](#)
[*Serapiaspallida* Wahlenb.](#)
[*Serapiasxiphophyllum* Ehrh. ex L.f.](#)

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Monocots
- Order: Asparagales Link
- Family: Orchidaceae Juss.
- Subfamily: Epidendroideae
- Tribe: Neottieae
- Genus: *Cephalanthera* Rich.
- Species: *Cephalanthera longifolia* (L.) Fritsch

Bentham and Hooker (1862)

Kingdom: Plantae
 Division: Phanerogamia
 Class: Monocotyledonae
 Series: Microspermae
 Ordo: Orchideae
 Tribus: Neottieae
 Subtribus: Limodoreae
 Genus: *Cephalanthera* Rich.
 Species: *Cephalanthera longifolia* (L.) Fritsch

4. Distribution:

Global: Europe, Asia, North Africa, India, China, Iran, Russia, Kazakhstan, Turkey, Algeria, India, Pakistan, Germany, Italy, France, Spain, Portugal

India: Manipur, Mizoram, Arunachal Pradesh, Sikkim, Jammu and Kashmir, Himachal Pradesh, Uttarakhand

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Terrestrial, grows in open places or in forests; 1000-3600m

8. Life Form: Cryptophytes

9.Economic Importance:

10. Probable Progenitor of:

11.DNA

C-value Methodology

12.Basic chromosome number(s): $x=16^{1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26}$,
 $17^{2, 9, 12, 13, 14, 15, 16, 25}$, 18^3

13. Zygotic chromosome number(s): $2n=32^{1, 2, 3, 4, 5, 6, 7, 10, 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26}$,
 $32+1^{19, 20}$, $34^{2, 12, 13, 14, 16, 25}$, $34+0-2 B^5$, 36^3

14. Gametic chromosome number(s): $n=16^{9, 15, 16}$, $17^{9, 12, 15, 16}$

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

Image file

16.Ploidy level:Diploid $^{1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26}$

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: $^{9, 15, 16}$

KaryotypeMedian, submedian, subterminal, terminal, bimodal $^{9, 15, 16}$

Chromosome sizeSmall $^{9, 15, 16}$

NOR chromosome(s) $^{4^{9, 15, 16}}$

Degree of asymmetry Moderately asymmetrical^{9, 15, 16}

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 16II^{9, 15, 16}, 17II^{9, 12, 15, 16}

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; Translocation etc.):