

Species Data Sheet

Datasheet No. A-041.001.002
(family.genus.species)

DBT-1

1. Taxon:

Species: *Cymodocea serrulata* (R. Br.) Asch. & Magnus

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Cauliniaserrulata* R.Br., *Cymodocea acaulis* Peter, *C. asiatica* Makino, *Kerneraserrulata* (R.Br.) Schult. & Schult.f., *Phucagrostis serrulata* (R.Br.) Kuntze, *Posidoniaserrulata* (R.Br.) Spreng., *Thalassiareptans* Sol. ex Graebn., *Zosteraserrulata* (R.Br.) Targ. Tozz.

3. Systematic position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Order: Alismatales R.Br. ex Bercht. & J. Presl
- Family: Cymodoceaceae Vines
- Genus: *Cymodocea* K.D. Koenig
- Species: *C. serrulata* (R. Br.) Asch. & Magnus

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Apocarpae
Ordo: Najadaceae Juss.
Genus: *Cymodocea* K.D. Koenig
Species: *C. serrulata* (R. Br.) Asch. & Magnus

4. Distribution:

Global: Aldabra, Australia, Bangladesh, Borneo, Caroline Island, Comoros, Egypt, Eritrea, India, Jawa, Kenya, Lesser Sunda Island, Madagascar, Malaya, Maluku, Mozambique, Myanmar, Nansei-shoto, New Caledonia, New Guinea, Philippines, Saudi Arabia, Seychelles, Socotra, Somalia, Sri Lanka, Sudan, Sulawesi, Tanzania, Vietnam, Western Australia, Yemen

India: Tamil Nadu Coast.

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

6. Threat Status:

IUCN: Least Concern

BSI:

7. Habit and Habitat: Marine rhizomatous herb. Grows on muddy sand, fine sand or sand with coral rubble substrates in the intertidal zone.

8. Life Form:

9. Economic Importance: Sometimes used as fertilizer in India.

10. Probable Progenitor of:

11. DNA

C-value

Methodology:

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=16^1$

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level:

Image file

17. Agametoploidy:

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

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomy, polysomy):

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:

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):