

Species Datasheet

Datasheet No. A-140.085.031
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species
Subspecies: *Vicianarbonensis* L. subsp. *narbonensis*
Variety
Cultivar
Hybrid

Image file

2. Synonyms:

3. Systematic Position: APG IV; Bentham and Hooker:

Bentham and Hooker (1862)

Kingdom: Plantae
Division: Phanerogamia
Class: Dicotyledons
Subclass: Polypetalae
Series: Calyciflorae
Cohors: Rosales Bercht. & J. Presl
Ordo: Leguminosae Juss.
Subordo: Papilionaceae Giseke
Genus: *Vicia* L.
Species: *Vicianarbonensis* L.

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: Fabales Bromhead
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Vicia* L.
- Species: *Vicianarbonensis* L.

4. Distribution:

Global

India Experimental stations

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat: Herbaceous, Erect

8. Life Form: Annual

9. Economic Importance: Marginal Crop

10. Probable Progenitor of: *Vicia faba*^{94,95, 96,110}

11. DNA

C-value

Methodology

12. Basic chromosome number(s): $x=7^{100}$

13. Zygotic chromosome number(s): $2n=14^{9, 100, 101, 109}$

14. Gametic chromosome number(s): $n=7^{100}$

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

Image file

16. Ploidy level: Diploid^{9,100,101,109}

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: ^{9,101,109}

Karyotype

Majority submetacentric chromosomes

Chromosome size

Medium

NOR chromosome(s) 2

Degree of asymmetry Symmetrical

Image file

22. Banding pattern(s):

Image file

23. Physical mapping of chromosomes: 18S - 5.8S - 26S and 5S ribosomal gene families ¹⁰⁹

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 7II with occasional univalents¹⁰⁰

Image file

27. Chromosome distribution at anaphase I: 7:7¹⁰⁰

28. Genetic diversity:

Chromosomal level¹⁰¹

Image file

DNA level^{44,45,49}

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