

Species Datasheet

Datasheet No. A-140.085.029
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species
Subspecies *Vicianarbonensis* L. subsp. *affinis*
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): $2n=14^{9,100,101}$

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}

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}

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:

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

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