

Species Datasheet

Datasheet No. A-140.085.043
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Viciaserratifolia*Jacq.
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms: *Vicianarbonensis* subsp. *serratifolia* Arcang., *Vicianarbonensis* var. *serratifolia*

(Jacq.)Ser.

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: LeguminosaeJuss.
Subordo: PapilionaceaeGiseke
Genus: *Vicia* L.
Species: *Viciaserratifolia*Jacq.

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: FabalesBromhead
- Family: FabaceaeLindl.
- Subfamily: Faboideae Rudd
- Genus: *Vicia* L.
- Species: *Viciaserratifolia*Jacq.

4. Distribution:

GlobalAsia, Africa, Europe

IndiaExperimental stations

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

6.Threat Status:

IUCN

BSI

7.Habit and Habitat:Herbaceous, Grows upto 100 cms

8.Life Form:Annual

9.Economic Importance:Marginal crop

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

11.DNA

C-value	Methodology
2C(15.63pg) ^{90,91,92}	Microdensitometer
4C (39.59pg) ^{2,3}	Microdensitometer

12.Basic chromosome number(s): $x=7^{29}$

13. Zygotic chromosome number(s): $2n= 14^{2,3,7, 8,9,19,90,91,92,109,111}$

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

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

Image file

16.Ploidy level:Diploid^{2,3,7, 8,9,19,90,91,92,109,111}

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:^{2,7,9,19,29,109}

Karyotype Majority submetacentric/metacentric chromosomes

Chromosome sizeMedium

NOR chromosome(s)2

Degree of asymmetrySymmetrical

Image file

22. Banding pattern(s):C-banding^{2,19}

Image file

23.Physical mapping of chromosomes:18S - 5.8S - 26S and 5S ribosomal gene families¹⁰⁹

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 meiosis⁷

Male meiosis⁷ II⁷

Image file

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level^{29,44,45,46,49,50}

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