

Species Datasheet

Datasheet No. A-140.085.017
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Vicia incisa* M. Bieb
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms: *Vicia sativa* subsp. *incisa* (M. Bieb.) Arcang. , *Viciaincisiformis* Stef., nom
inval., *V. sativa* L. subsp. *incisa* var. *incisa*

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

APG IV (2016)

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

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: *Vicia incisa* M. Bieb

4. Distribution:

Global Asia, Europe

India Experimental stations

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

6.Threat Status:

IUCN

BSI

7.Habit and Habitat:Herbaceous, Scrambling climber, Height ~ 60- 80 cm .

8.Life Form:Annual

9.Economic Importance:

10. Probable Progenitor of:Close relative of common vetch, *V.sativa*^{123,124,126,130,131,136,149}

11.DNA

C-value Methodology

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

13. Zygotic chromosome number(s): $2n=14^{9,29,104,109,130,135}$

14. Gametic chromosome number(s):

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

Image file

16.Ploidy level:Diploid^{9,29,104,109,130,135}

Image file

17.Agametoploidy:

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

19.Genomic formula:

20.A aberrant chromosome number(s)(aneuploidy, aneusomaty, polysomaty):

21.Somatic chromosomes:^{9,29,104,109,135}

Karyotype Majority submetacentric /subtelocentricchromosomes

Chromosome sizeLarge

NOR chromosome(s) 2

Degree of asymmetry Asymmetrical

Image file

22. Banding pattern(s):

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 meiosis

Male meiosis

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level^{29,44,128, 131}

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