

# Species Datasheet

Datasheet No. A-140.085.048  
(family.genus.species)

DBT- Network Programme

## 1. Taxon:

Species: *Viciavillosa* Roth  
Subspecies  
Variety  
Cultivar  
Hybrid

Image file

2. Synonyms: *Viciabivonea* Raf.

## 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: *Viciavillosa* Roth

### APG IV (2016)

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

## 4. Distribution:

Global Asia, Africa, Europe

India Temperate regions

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

**6. Threat Status:**

**IUCN**

**BSI**

**7. Habit and Habitat:** Herbaceous. Climber

**8. Life Form:** Annual

**9. Economic Importance:** Fodder. Green manure

**10. Probable Progenitor of:**

**11. DNA**

**C-value**

**Methodology**

2C(4.67pg)<sup>90,91</sup>

Microdensitometer

**12. Basic chromosome number(s):**  $x=7^5, 6, 120, 129$

**13. Zygotic chromosome number(s):**  $2n=14^5, 9, 10, 13, 90, 104, 109, 120, 129$

**14. Gametic chromosome number(s):**  $n=7^6$

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

Image file

**16. Ploidy level:** Diploid<sup>5,9,10,13,90,104,109,120,129</sup>

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:** 5,9,13,29,104,109,129

**Karyotype** Majority submetacentric / metacentric chromosomes

**Chromosome size** Small

**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 <sup>10,109</sup>;

Satellite DNA<sup>114</sup>

**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**<sup>7116</sup>

Image file

**27. Chromosome distribution at anaphase I:**<sup>7:76</sup>

**28. Genetic diversity:**

**Chromosomal level**

Image file

**DNA level**<sup>29,44,48</sup>

**29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis;**

**Pollen stainability; Translocation etc):**Pollen stainability : 97 %<sup>6</sup>