

Species Datasheet

Datasheet No. A-140.002.013
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Vignakhandalensis* (Santapau) Sundararagh. & Wadhwa

Subspecies:

Variety:

Cultivar:

Hybrid:

Image file:

2. **Synonyms:** *Phaseolus grandis* Dalzell & A. Gibson, *P. khandalensis* Santapau, *Vigna grandis* (Dalzell & A. Gibson) Verdc.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: Fabales Bromhead
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Vigna* Savi
- Species: *V. khandalensis* (Santapau)
Sundararagh. & Wadhwa

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: *Vigna* Savi
Species: *V. khandalensis* (Santapau)
Sundararagh. & Wadhwa

4. Distribution:

Global: India

India: Gujarat, Maharashtra, Karnataka, Tamil Nadu

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

6. Threat Status:

IUCN: Near Threatened

BSI:

7. **Habit and Habitat:** Erect robust herb; found in hilly forests, usually in open situations often on slopes.

8. **Life Form:** Therophytes

9. **Economic Importance:** Seed from this species may be eaten during famines

10. Probable Progenitor of:

11. DNA

C-value

Methodology

12. Basic chromosome number(s): $x=11$ ²⁵

13. Zygotic chromosome number(s): $2n=22$ ^{5,25,26}

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level: Diploid^{5,25,26}

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:²⁵

Karyotype Majority metacentric chromosomes

Chromosome size Small

NOR chromosome(s)

Degree of asymmetry Symmetrical

Image file

22. Banding pattern(s): CMA and DAPI banding⁵

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

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level

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