Species Datasheet

Datasheet No. A-140.002.036 **DBT- Network Progr**
(family.genus.species)

1. Taxon:

Species:*Vignavexillata*(L.) A. Rich.
Subspecies:
Variety:
Cultivar:
Hybrid:

Image file:

2. Synonyms:*Dolichoscylindricus*Desv., *D. vexillatus* (L.) Kunth,*Phaseoluscapensis*Thunb., *P. glycinaeformis*Weinm., *P. humifusus*Savi, *P. pulniensis* Wight, *P. quadriflorus*A.Rich., *P. sepiarius* Dalzell, *P. vexillatus* L.,*Plectrotropis hirsute* Schum. &Thonn.,*Strophostyles capensis*E.Mey.,*Vignacapensis* (Thunb.) Burtt Davy, *V. carinalis*Benth., *V. crinite* A.Rich., *V. davyi* Bolus, *V. dinteri* Harms, *V. dolichoneura* Harms, *V. golungensis* Baker, *V. hirta* Hook., *V. lobatifolia* Baker, *V. phaseoloides* Baker, *V. scabra*Sond., *V. senegalensis*A.Chev., *V. thonnongii*Hook.f., *V. tuberose* A.Rich., *V. vexillata* var. *hirta* (Hook.) Baker f., *V. vexillata* var. *pluriflora*Franch., *V. vexillata* var. *thonningii* (Hook.) Baker, *V. vexillata* var. *vexillata*, *V. vexillata* var. *yunnanensis*Franch.

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: FabalesBromhead
- Family: FabaceaeLindl.
- Subfamily: Faboideae Rudd
- Genus: *Vigna*Savi
- Species: *V. vexillata*(L.) A. Rich.

Bentham and Hooker (1862)
Kingdom: Plantae
Division:Phanerogamia
Class: Dicotyledons
Subclass: Polypetalae
Series: Calyciflorae
Cohors: RosalesBercht. & J. Presl
Ordo: LeguminosaeJuss.
Subordo: PapilionaceaeGiseke
Genus: *Vigna*Savi
Species: *V. vexillata*(L.) A. Rich.

4. Distribution:

Global: Cosmopolitan in tropics,Australia, India

India: Goa,Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Maharashtra, Meghalaya, Punjab, Rajasthan, Tamil Nadu, Uttarakhand, Uttar Pradesh

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

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Twining or straggling herb with tuberous root stock; woodland, grasslands

8. Life Form: Geophyte

9. Economic Importance: Cover crop, green manure, food.

10. Probable Progenitor of:

11. DNA

C-value	**Methodology**
2.89pg	Microdensitometer[14]

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

13. Zygotic chromosome number(s):2n=22[11,14,25,27,28,32,74,125]

14. Gametic chromosome number(s):

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

Image file

16. Ploidy level: Diploid[11,14,25,27,28,32,74,125]

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:[25,27,74]

Karyotype Majority metacentric chromosomes

Chromosome size Small

NOR chromosome(s)2

Degree of asymmetry Symmetrical

Image file

22. Banding pattern(s):C-banding [28,125]

Image file

23. Physical mapping of chromosomes:

In situ hybridization: Ty1-copia-like Retrotransposable Elements [32]

Image file

Fluorescent in situ hybridization

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:[126]

Image file

26.Chromosome associations:

Female meiosis

Male meiosis

Image file

27.Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

DNA level[9,124]

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