Species Datasheet

Datasheet No. A-140.085.022
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species:*Viciakalakhensis*Khattab,Max. andBis
Subspecies
Variety
Cultivar
Hybrid

Image file

2. Synonyms:

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: *Viciakalakhensis*Khattab,Max. andBis

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: FabalesBromhead
- Family: FabaceaeLindl.
- Subfamily: Faboideae Rudd
- Genus: *Vicia* L.
- Species: *Viciakalakhensis*Khattab,Max. and Bis

4.Distribution:

Global

IndiaExperimental stations
-

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

6.Threat Status:

IUCN

BSI

7.Habit and Habitat: Herbaceous.Erect

8.Life Form: Annual

9.Economic Importance:

10. Probable Progenitor of:*Viciafaba*[94,95, 96,110]

11.DNA

C-value	**Methodology**
4C(36.65 pg) [4]	Microdensitometer
4C (42.22 pg)[3, 98]	Microdensitometer

12.Basic chromosome number(s):x= 7[29]

13. Zygotic chromosome number(s):2n=14 [3,4, 7, 8,98,110]

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[3,4, 7 ,8 , 98,110]

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:[7,29,98]

Karyotype Majority metacentric /submetacentric chromosomes

Chromosome size Medium

NOR chromosome(s)2

Degree of asymmetry Symmetrical

Image file

22. Banding pattern(s):C- banding[98]

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[7]

Male meiosis Majority bivalents and upto 4 I in 30 % cases [7]

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;Translocationsetc.):