

Species Datasheet

Datasheet No. A-140.084.040
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Cicerreticulatum* Ladiz
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: Leguminosae Juss.
Subordo: Papilionaceae Giseke
Genus: *Cicer* L.
Species: *Cicerreticulatum* Ladiz

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: Fabales Bromhead
- Family: Fabaceae Lindl.
- Subfamily: Faboideae Rudd
- Genus: *Cicer* L.
- Species: *Cicerreticulatum* Ladiz

4. Distribution:

Global Turkey

India Experimental stations

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

6. Threat Status:

IUCN

BSI

7. Habit and Habitat:

8. Life Form: Annual

9. Economic Importance:

10. Probable Progenitor of: *Cicerarietinum* L.^{1, 23 - 27, 53, 55, 113, 134, 135}

11. DNA

C-value

Methodology

2C (2.65pg)¹

Microdensitometer

4C (5.30pg)⁴ Cytophotometry

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=16^{1, 4, 18, 23, 24, 27, 30, 36, 37}$

14. Gametic chromosome number(s): $n=8^{18, 40}$

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

Image file

16. Ploidy level: Diploid^{1, 4, 18, 23, 24, 27, 30, 36, 37}

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: ^{1, 4, 18, 30, 36, 37}

Karyotype Majority metacentric /submetacentric chromosomes

Chromosome size Small

NOR chromosome(s) 2 - 4

Degree of asymmetry Symmetrical

Image file

22. Banding pattern(s): C-banding, silver staining, Chromomycin A3, Hoechst 33258, DAPI^{4, 37}

Image file

23. Physical mapping of chromosomes:

In situ hybridization: 18S - 5.8S - 26S and 5S ribosomal gene families⁴

Image file

Fluorescent in situ hybridization: 18S - 5.8S - 26S and 5S ribosomal gene families²⁷

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis

Male meiosis 8II^{18,40}

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level^{30,37}

Image file

DNA level^{44,45,46,48,49,52,53,55,56,57,58,62,64,65,66,76,77,78,80,82,83,86,87,88,89,91,93,94,95,107,108,110}

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

Pollen stainability; Translocation etc.): Secondary gene pool of *C. arietinum*