Species Datasheet

Datasheet No. A-140.028.005
(family.genus.species)

DBT- Network Programme

1.Taxon:

Species:
Subspecies:*Lensculinaris* subsp. *tomentosus* (Ladiz.) M. E. Ferguson et al.
Variety
Cultivar
Hybrid

Image file

2. Synonyms:*Lens tomentosus*Ladiz.

3.Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicots
- Clade: Rosids
- Order: FabalesBromhead
- Family: FabaceaeLindl.
- Subfamily: Faboideae Rudd
- Genus:*Lens*Mill.
- Species: *L.culinaris*Medik.
- Subspecies: *L.culinaris* subsp. *tomentosus* (Ladiz.) M. E. Ferguson et al.

Bentham and Hooker (1862)

Kingdom: Plantae
Division:Phanerogamia
Class: Dicotyledons
Subclass: Polypetalae
Series: Calyciflorae
Cohors: RosalesBercht. & J. Presl
Ordo: Leguminosae Juss.
Subordo: PapilionaceaeGiseke
Genus: *Lens*Mill.
Species: *L.culinaris*Medik.
Subspecies: *L.culinaris* subsp. *tomentosus* (Ladiz.) M. E. Ferguson et al.

4.Distribution:

Global: Syria, Turkey

India: Experimental stations

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

6.Threat Status:

IUCN:

BSI:

7.Habit and Habitat: Herb. Height ~12-30 cm.Temperate and Subtropical

8.Life Form: Chamaephytes

9.Economic Importance: Primary gene pool resource for lentil

10.Probable Progenitor of:

11.DNA
C-value **Methodology**

12.Basic chromosome number(s):

13. Zygotic chromosome number(s):2n=14[5]

14. Gametic chromosome number(s):

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

16.Ploidy level: Diploid[5]
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]

Karyotype Majority metacentric /subtelocentric chromosomes
Chromosome size
NOR chromosome(s)2
Degree of asymmetry
Image file

22. Banding pattern(s):
Image file

23.Physical mapping of chromosomes:

In situ hybridization
Image file

Fluorescent in situ hybridization:18S-5.8S-25S and 5S ribosomal gene families [37,38,40]
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

Image file

DNA level[40,48,50,66,67,70,85]

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